HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

NOTES:

1. THE PURPOSE OF THIS HYDROGRAPHIC SURVEY IS TO: A.) DOCUMENT THE CURRENT DEPTHS OF A PORTION OF THE HARBOR HEIGHTS WATERWAYS; B.) DETERMINE THE VOLUME OF MATERIAL IN THE SURVEYED CHANNEL THAT IS ABOVE THE PERMITTED DREDGE DEPTH OF -6.1' NAVD 88 (-5.0' MLW), WITHIN THE PROJECT LIMITS. THE ELEVATIONS AND QUANTITIES REPORTED HEREIN ARE NOT INTENDED TO BE USED FOR DESIGN OR CONSTRUCTION PAYMENT ESTIMATING.
2. CHANNEL BOTTOM WIDTHS, SURVEY BASELINE ALIGNMENT, AND STATIONING ARE DEPICTED HEREON PER "HARBOR HEIGHTS CHANNELS BATHYMETRIC SURVEY" BY COASTAL ENGINEERING CONSULTANTS INC. SIGNED SEPTEMBER 14, 2023 AS PROVIDED BY CHARLOTTE COUNTY.
3. THE DREDGING TEMPLATE BOTTOM DEPTH AND SLOPES WERE PROVIDED BY CHARLOTTE COUNTY.
4. COORDINATES, CONTOURS, STATIONING, ELEVATIONS AND DISTANCES SHOWN ARE IN U.S. SURVEY FEET OR DECIMALS THEREOF.
5. BEARINGS ARE BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE (NAD 1983).
6. ALL CONTOURS AND ELEVATIONS SHOWN HEREON ARE RELATIVE TO NAVD 88 BASED ON DIRECT TIES TO NGS TIDAL BENCH MARK "872 5791 D" (PID DM3218). THE CONVERSION BETWEEN MLW AND NAVD 88 (MLW = -1.1 NAVD 88) IS BASED ON THE TIDAL DATUM REPORT FOR TIDE STATION 872 5791 BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
7. BACKGROUND AERIAL IMAGERY FROM CHARLOTTE COUNTY WAS ACQUIRED IN 2023. AERIAL PROVIDED FOR INFORMATIONAL PURPOSES ONLY. POSITIONAL ACCURACY OF SAID IMAGERY WAS NOT FIELD VERIFIED.
8. HYDROGRAPHIC BOTTOM ELEVATIONS WERE COLLECTED USING A HYDROLITE-TM ACOUSTIC ECHO SOUNDER WITH A 200 KILOHERTZ, SINGLE FREQUENCY TRANSDUCER. THE HORIZONTAL POSITION AND NAVD 88 ELEVATIONS OF BOTTOM DEPTHS WERE OBTAINED BY REAL-TIME KINEMATIC (RTK) GPS OBSERVATIONS SYNCHRONIZED TO THE TRANSDUCER BY A DATA COLLECTOR OPERATION BOTH SYSTEMS.
9. THE EXPECTED HORIZONTAL ACCURACY OF SONAR DERIVED BOTTOM ELEVATIONS IS +/- 1'. THIS INCLUDES ERRORS ASSOCIATED WITH WAVE ACTION AND THE SUBSEQUENT ROLLING, PITCHING AND HEAVING OF THE SURVEY VESSEL; AS WELL AS LAG TIME BETWEEN THE GPS POSITION MEASUREMENT AND THE ACOUSTIC SOUNDING SIGNAL FROM THE CANAL BOTTOM.
10. THE EXPECTED VERTICAL ACCURACY OF SONAR DERIVED BOTTOM ELEVATIONS IS 0.4' +/-. THIS WAS TESTED BY COMPARING OVERLAPPING HYDROGRAPHIC DATA COLLECTED ON DIFFERENT DAYS / SURVEY LINES, AS WELL AS DIRECT RTK GPS OBSERVATIONS OF THE CANAL BOTTOM. THE EXPECTED ACCURACY SHOULD BE TAKEN INTO ACCOUNT WHEN EVALUATING VOLUMES REPORTED HEREIN.
11. FIELD WORK PERFORMED ON AUGUST 7TH THROUGH AUGUST 12TH, 2024 AS RECORDED IN FIELD BOOK BOOK 1944, PAGES 57-61. ADDITIONAL DATA WAS COLLECTED TO SUPPLEMENT VOIDS IN THE DIGITAL TERRAIN MODEL FOR ALL CANALS BETWEEN OCTOBER 17TH AND OCTOBER 22ND, 2024 AS RECORDED IN FIELD BOOK 1979, PAGES 32-37.
12. VOLUMES WERE CALCULATED IN AUTOCAD CIVIL 3D, UTILIZING THE COMPOSITE METHOD TO COMPARE THE DREDGE TEMPLATE AND A DIGITAL TERRAIN MODEL CREATED FROM BOTTOM ELEVATION DATA COLLECTED IN THE METHODS DESCRIBED ABOVE. SAID VOLUMES HAVE AN EXPECTED ACCURACY OF +/- 10%.

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1. NOTES, LEGEND, VICINITY MAP
2. CHANNEL DETAIL B.O.S. STA. -00+25 TO STA. 22+00 BALBOA CANAL
3. CHANNEL DETAIL STA. 22+00 TO E.O.S. STA. 26+00 BALBOA CANAL, VICEROY CANAL
4. CHANNEL DETAIL VENDROME CANAL, VINCENNES CANAL
5. CHANNEL DETAIL VERSAILLE CANAL, BALBOA EXTENSION, B.O.S. STA 00+00 TO STA. 11+00 DESOTO CANAL
6. CHANNEL DETAIL STA. 11+00 TO STA. 34+00 DESOTO CANAL
7. CHANNEL DETAIL STA. 34+00 TO E.O.S. STA. 45+01.49 DESOTO CANAL, SANTA CLARA CANAL
8. CHANNEL DETAIL DOVER CANAL, B.O.S. STA. 00+00 TO STA. 1+50 DOVER CANAL ENTRANCE
9. CHANNEL DETAIL DOVER CANAL ENTRANCE, B.O.S. STA. 00+00 TO STA. 11+00 SANTA BARBARA CANAL
10. CHANNEL DETAIL STA. 11+00 TO E.O.S. STA. 17+00 SANTA BARBARA CANAL, B.O.S. STA. 00+00 TO STA. 11+00 SAN SALVADOR CANAL
11. CHANNEL DETAIL STA. 11+00 TO E.O.S. STA. 20+27.49 SAN SALVADOR CANAL, SAN SALVADOR CANAL ENTRANCE
12. CHANNEL DETAIL B.O.S. STA. 00+00 TO STA. 23+00 SAN MARINO CANAL
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18. CHANNEL SECTIONS STA. 6+00 TO 8+00 SANTA CLARA CANAL, STA. 00+00 TO STA. 18+27 DOVER CANAL, STA. 00+32 TO STA. 4+00 DOVER CANAL ENTRANCE, STA. 00+00 SANTA BARBARA CANAL
19. CHANNEL SECTIONS STA. 00+50 TO STA. 14+50 SANTA BARBARA CANAL, STA. 00+21 TO STA. 12+50 SAN SALVADOR CANAL
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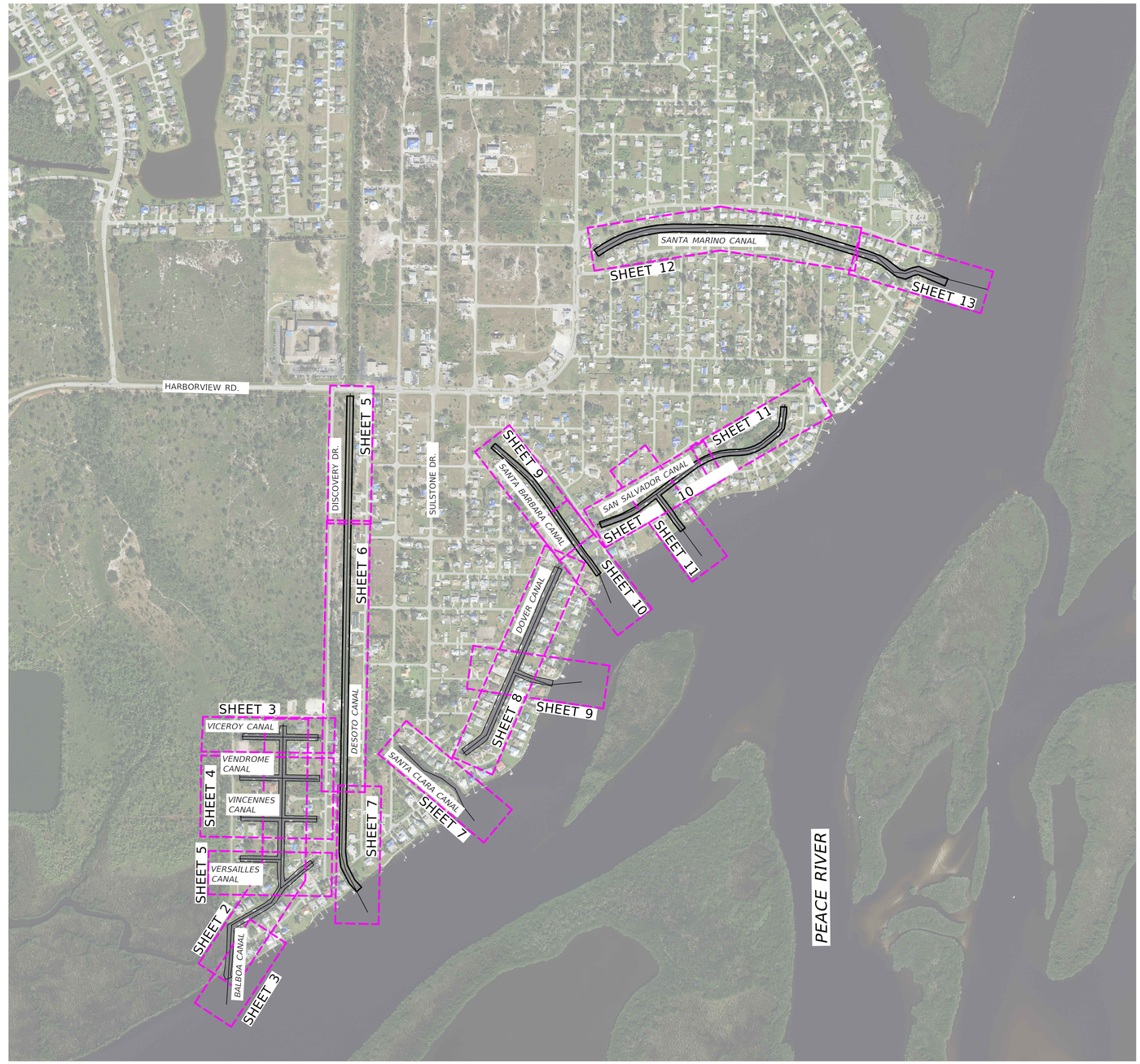
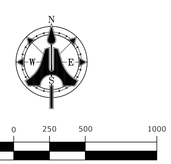
21. CHANNEL SECTIONS STA. 14+50 TO E.O.S. STA. 32+00 SAN MARINO CANAL
22. VOLUME TABLES BALBOA CANAL, BALBOA EXTENSION, VERSAILLE CANAL, VINCENNES CANAL, VENDROME CANAL, VICEROY CANAL, DESOTO CANAL, SANTA CLARA CANAL
23. VOLUME TABLES DOVER CANAL, DOVER CANAL ENTRANCE, SANTA BARBARA CANAL, SAN SALVADOR CANAL, SAN SALVADOR ENTRANCE, SAN MARINO CANAL

LEGEND:

B.O.S.	= BEGINNING OF SURVEY
CY	= CUBIC YARDS
DIST.	= DISTANCE
E	= EASTING COORDINATE
E.O.S.	= END OF SURVEY
EQ.	= EQUATION
FT.	= FEET
GPS	= GLOBAL POSITIONING SYSTEM
INC.	= INCORPORATED
LB	= LICENSED BUSINESS
MLW	= MEAN LOW WATER
N	= NORTHING COORDINATE
NAD 1983	= NORTH AMERICAN DATUM OF 1983
NAVD 88	= NORTH AMERICAN VERTICAL DATUM OF 1988
NGS	= NATIONAL GEODETIC SURVEY
NO. / #	= NUMBER
P.I.	= POINT OF INTERSECTION
P.S.M.	= PROFESSIONAL SURVEYOR & MAPPER
RTK	= REAL-TIME KINEMATIC
STA	= SURVEY BASELINE STATION
+/-	= MORE OR LESS
TYP	= TYPICAL
VOL.	= VOLUME
19	= CHANNEL MARKERS





DARREN K. TOWNSEND
License Number 6476
STATE OF FLORIDA
Professional Surveyor & Mapper

Digitally signed by Darren Townsend
Date: 2025.02.06 14:55:53 -05'00'

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FIELD BOOK: 1944 / 1979 PAGE: 57-61 / 32-37

PROJECT NAME: WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE BELOW

DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE No. 6476

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CERTIFICATE OF AUTHORIZATION No. 3114

CLIENT: CHARLOTTE COUNTY

DRAWN: RH DATE: 01/28/2024 CHECKED: DT DATE: 01/29/2024

HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.: 24-1940 FILE NAME: 24-1940_PH303

COUNTY: CHARLOTTE SECTION: TOWNSHIP: S RANGE: E

SHEET 1 OF 23

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HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

40 0 20 40 80

INTENDED DISPLAY SCALE: 1" = 40'

NAVD 88 ELEVATIONS

ELEVATION RANGE	COLOR
-19.0 - -18.0	
-18.0 - -17.0	
-17.0 - -16.0	
-16.0 - -15.0	
-15.0 - -14.0	
-14.0 - -13.0	
-13.0 - -12.0	
-12.0 - -11.0	
-11.0 - -10.0	
-10.0 - -9.0	
-9.0 - -8.0	
-8.0 - -7.0	
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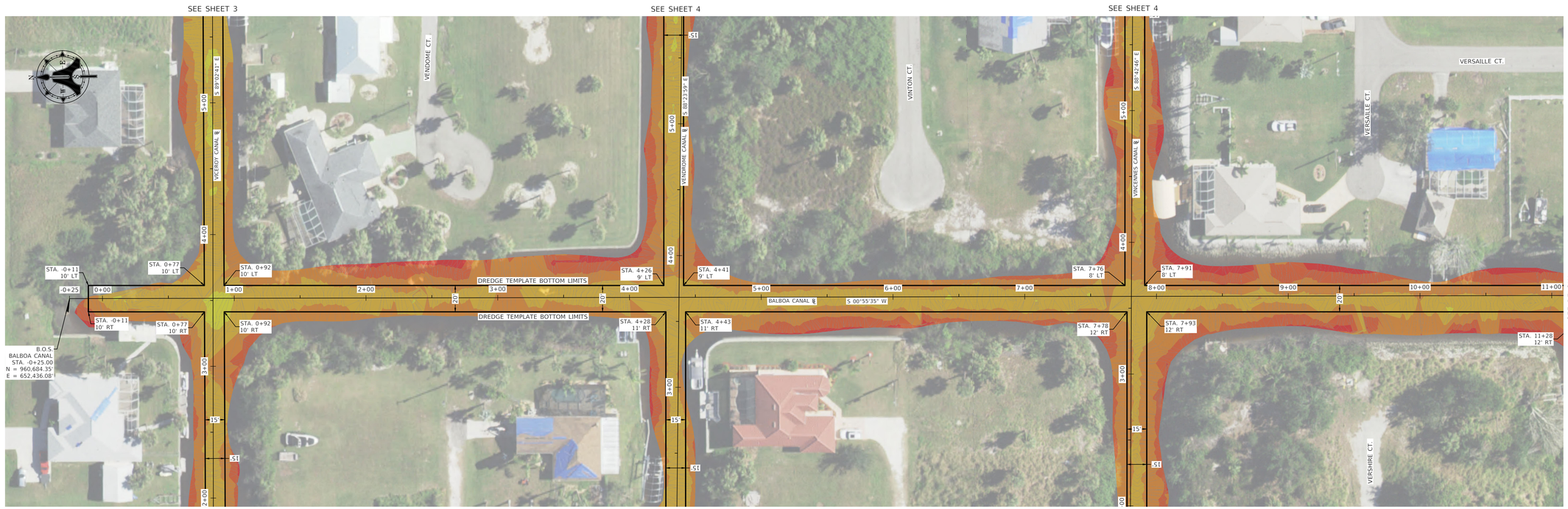
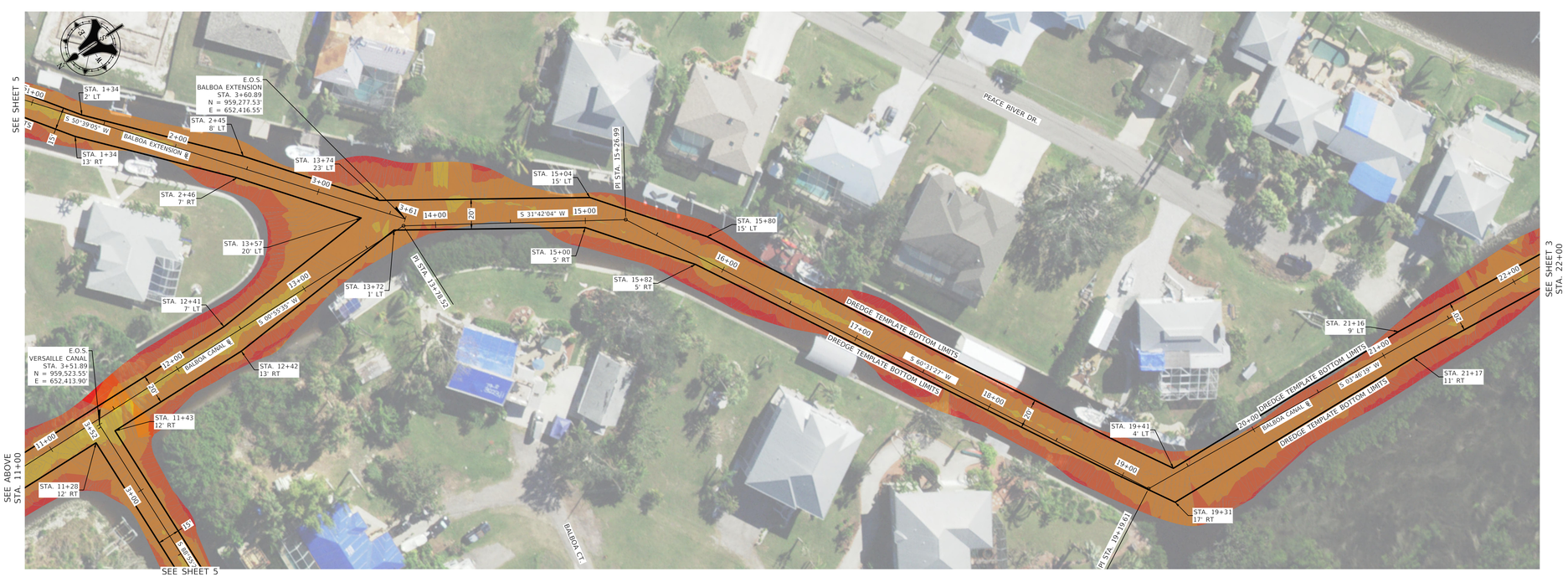
-5.0 - -4.0	
-4.0 - -3.0	
-3.0 - -2.0	
-2.0 - -1.0	





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PAGE: 57-61 / 32-37

PROJECT NAME: WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

DARREN TOWNSEND
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HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.:	FILE NAME:
24-1940	24-1940_P303

COUNTY:	SECTION:	TOWNSHIP:	RANGE:
CHARLOTTE		S	E

SHEET 2 OF 23

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HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

40 0 20 40 80
INTENDED DISPLAY SCALE: 1" = 40'

NAVD 88 ELEVATIONS

ELEVATION RANGE	COLOR
-19.0 - -18.0	
-18.0 - -17.0	
-17.0 - -16.0	
-16.0 - -15.0	
-15.0 - -14.0	
-14.0 - -13.0	
-13.0 - -12.0	
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-11.0 - -10.0	
-10.0 - -9.0	
-9.0 - -8.0	
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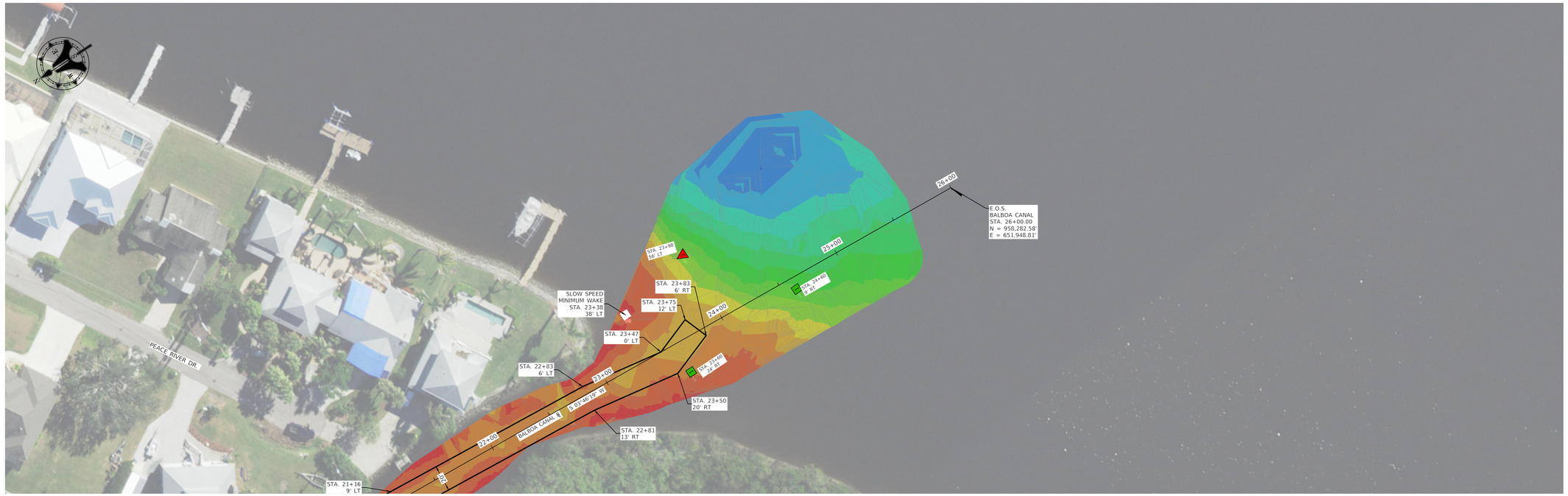

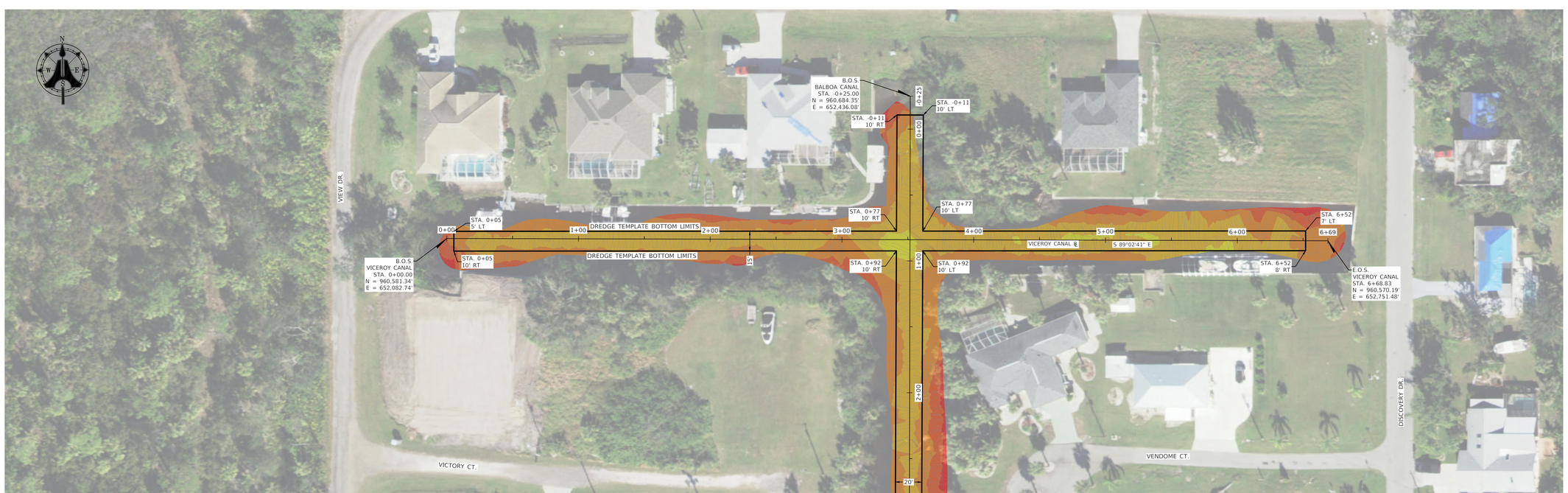

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FIELD BOOK: 1944 / 1979 PAGE: 57-61 / 32-37

PROJECT NAME: WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

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CLIENT: CHARLOTTE COUNTY

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HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.: 24-1940 | FILE NAME: 24-1940_P303

COUNTY: CHARLOTTE | SECTION: | TOWNSHIP: S | RANGE: E

SHEET 3 OF 23

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HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

40 0 20 40 80
INTENDED DISPLAY SCALE: 1" = 40'

NAVD 88 ELEVATIONS

ELEVATION RANGE	COLOR
-19.0 - -18.0	
-18.0 - -17.0	
-17.0 - -16.0	
-16.0 - -15.0	
-15.0 - -14.0	
-14.0 - -13.0	
-13.0 - -12.0	
-12.0 - -11.0	
-11.0 - -10.0	
-10.0 - -9.0	
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-8.0 - -7.0	
-7.0 - -6.0	
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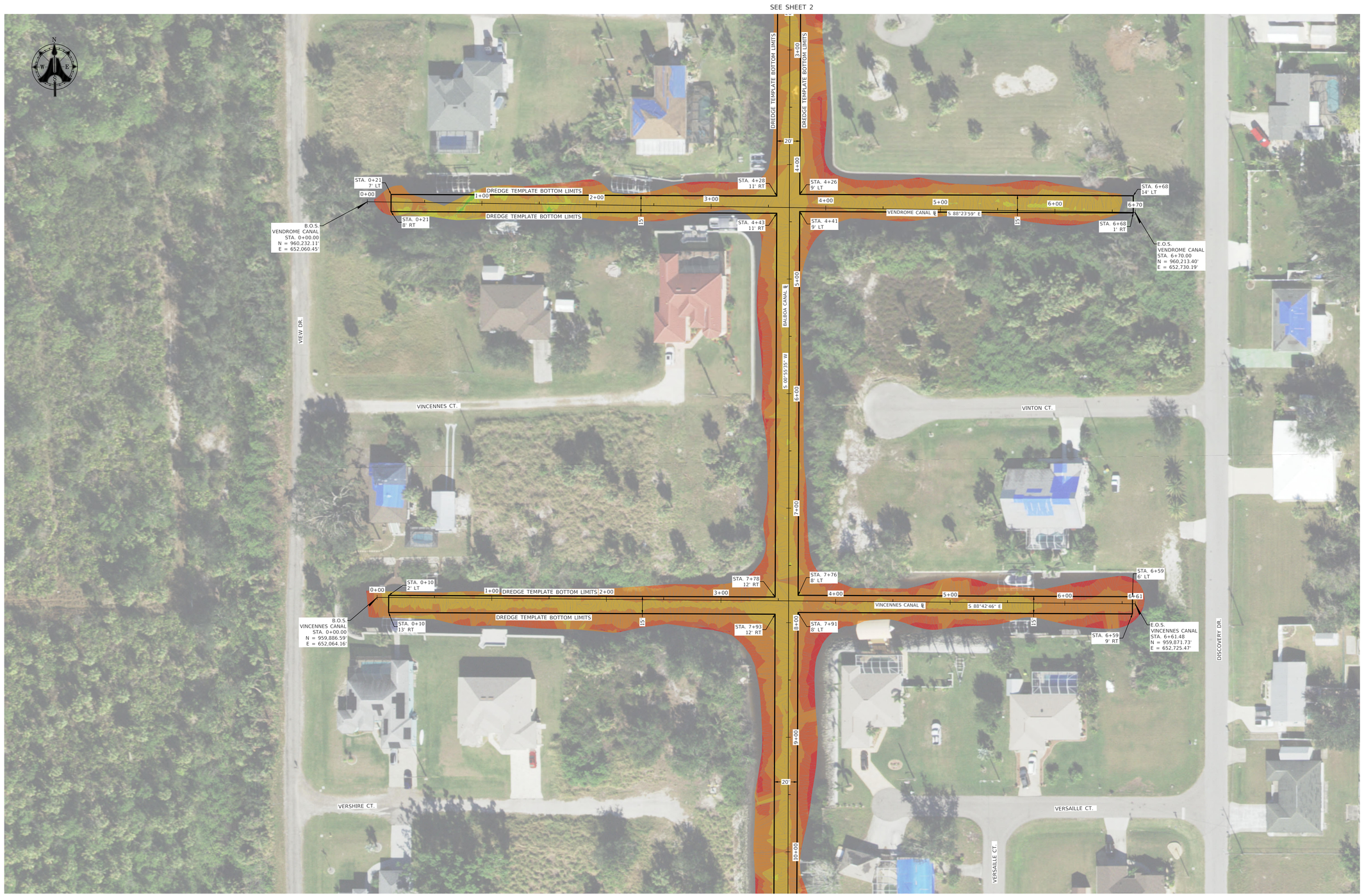
-5.0 - -4.0	
-4.0 - -3.0	
-3.0 - -2.0	
-2.0 - -1.0	



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FIELD BOOK: 1944 / 1979
PAGE: 57-61 / 32-37

PROJECT NAME
WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

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HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.:	FILE NAME:		
24-1940	24-1940_P303		
COUNTY:	SECTION:	TOWNSHIP:	RANGE:
CHARLOTTE		S	E

SHEET 4 OF 23

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HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

40 0 20 40 80

INTENDED DISPLAY SCALE: 1" = 40'

NAVD 88 ELEVATIONS

ELEVATION RANGE	COLOR
-19.0 - -18.0	
-18.0 - -17.0	
-17.0 - -16.0	
-16.0 - -15.0	
-15.0 - -14.0	
-14.0 - -13.0	
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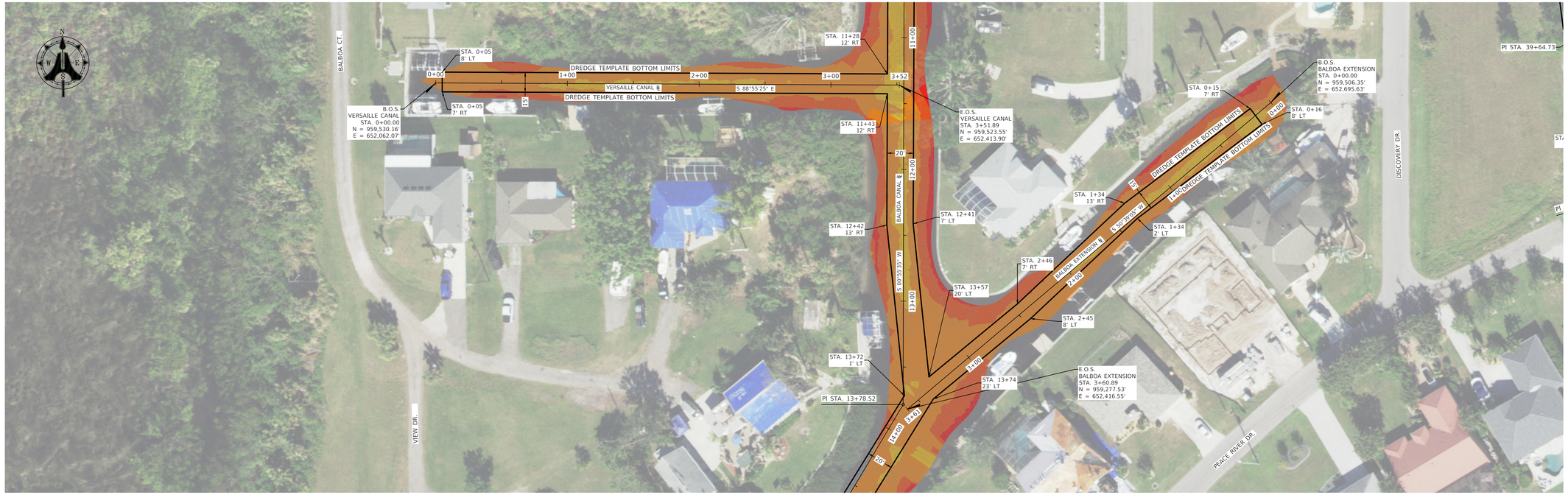

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WO# 322 PRE-STORM BATHYMETRIC SURVEYS

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SEE SHEET 1

DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
LICENSE NUMBER LS6765

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CERTIFICATE OF AUTHORIZATION No. 3114

CLIENT: CHARLOTTE COUNTY

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HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.: 24-1940
FILE NAME: 24-1940_P303
COUNTY: CHARLOTTE
SECTION:
TOWNSHIP: S
RANGE: E

SHEET 5 OF 23

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HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

40 0 20 40 80

INTENDED DISPLAY SCALE: 1" = 40'

NAVD 88 ELEVATIONS	COLOR
ELEVATION RANGE	
-19.0 - -18.0	
-18.0 - -17.0	
-17.0 - -16.0	
-16.0 - -15.0	
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-7.0 - -6.0	
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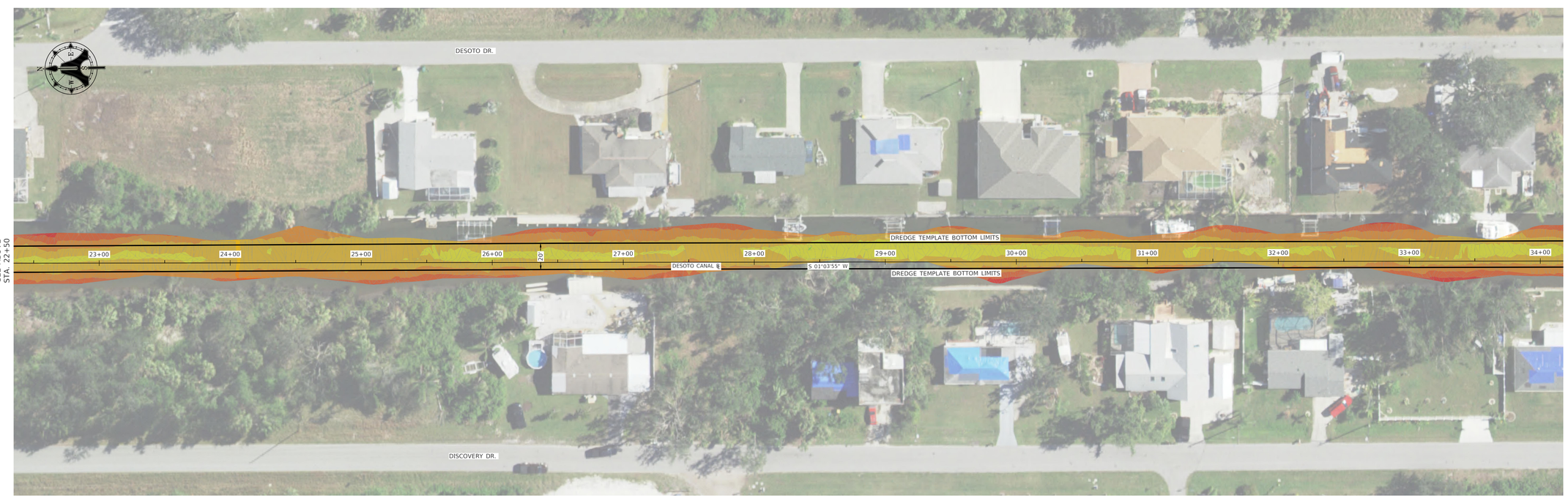
-4.0 - -3.0	
-3.0 - -2.0	
-2.0 - -1.0	



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FIELD BOOK: 1944 / 1979
PAGE: 57-61 / 32-37

PROJECT NAME:
WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE No. 6407

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HARBOR HEIGHTS WATERWAYS

PROJECT NO:	FILE NAME:
24-1940	24-1940_P303

COUNTY:	SECTION:	TOWNSHIP:	RANGE:
CHARLOTTE		S	E

SHEET 6 OF 23

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HYDROGRAPHIC SURVEY

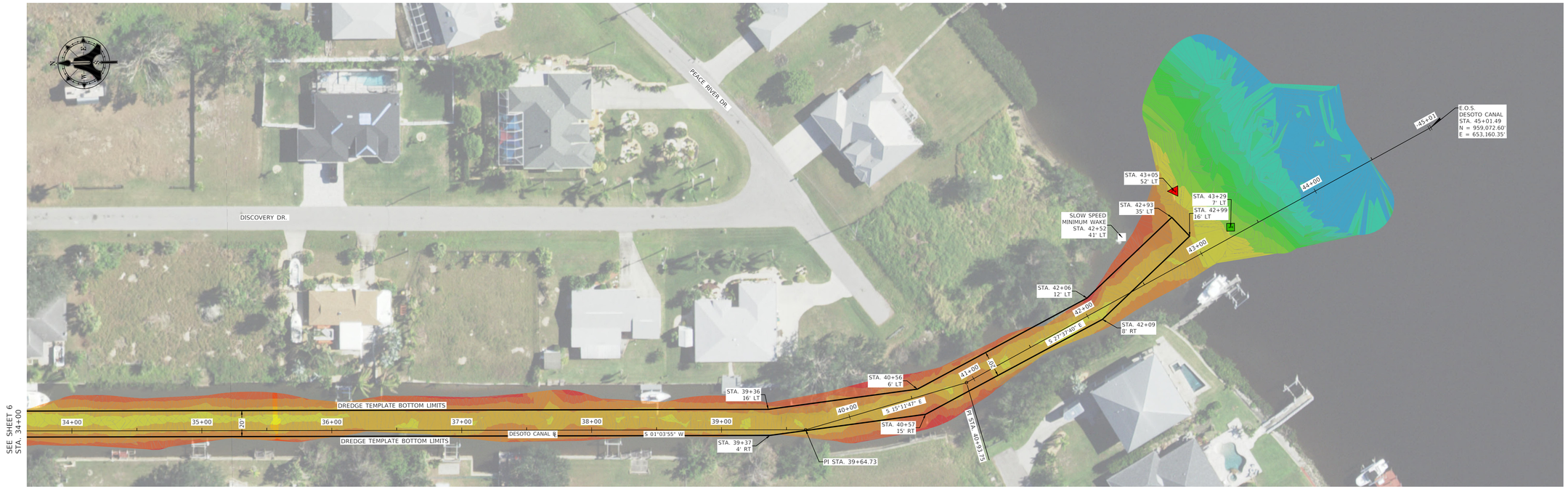
HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

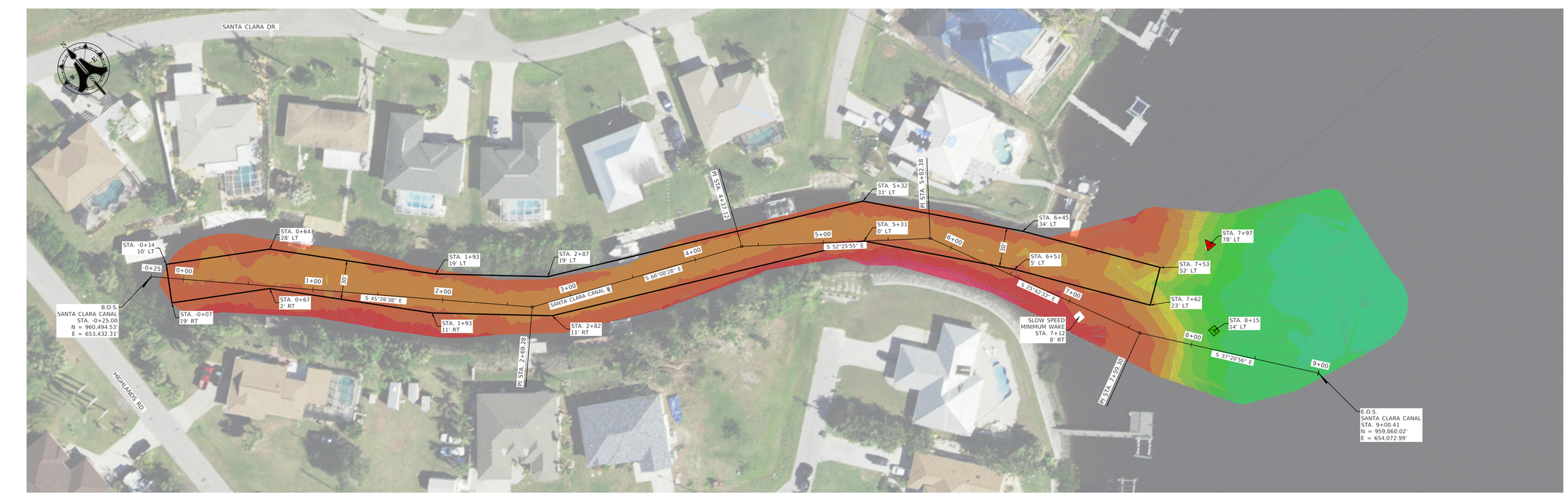
40 0 20 40 80

INTENDED DISPLAY SCALE: 1" = 40'

NAVD 88 ELEVATIONS

ELEVATION RANGE	COLOR
-19.0 - -18.0	
-18.0 - -17.0	
-17.0 - -16.0	
-16.0 - -15.0	
-15.0 - -14.0	
-14.0 - -13.0	
-13.0 - -12.0	
-12.0 - -11.0	
-11.0 - -10.0	
-10.0 - -9.0	
-9.0 - -8.0	
-8.0 - -7.0	
-7.0 - -6.0	
-6.0 - -5.0	
-5.0 - -4.0	
-4.0 - -3.0	
-3.0 - -2.0	
-2.0 - -1.0	





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FIELD BOOK: 1944 / 1979
PAGE: 57-61 / 32-37

PROJECT NAME:
WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. 6506

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FORT MYERS, FLORIDA 33901
www.aimengr.com
TOLL FREE 800-226-4569
PHONE 239-332-4569
CERTIFICATE OF AUTHORIZATION No. 3114

CLIENT: CHARLOTTE COUNTY

DRAWN: RH
DATE: 01/28/2024
CHECKED: DT
DATE: 01/29/2024

HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.	FILE NAME:	
24-1940	24-1940_P303	
COUNTY: CHARLOTTE	SECTION:	TOWNSHIP: S / RANGE: E

SHEET 7 OF 23

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HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

40 0 20 40 80
INTENDED DISPLAY SCALE: 1" = 40'

NAVD 88 ELEVATIONS

ELEVATION RANGE	COLOR
-19.0 - -18.0	
-18.0 - -17.0	
-17.0 - -16.0	
-16.0 - -15.0	
-15.0 - -14.0	
-14.0 - -13.0	
-13.0 - -12.0	
-12.0 - -11.0	
-11.0 - -10.0	
-10.0 - -9.0	
-9.0 - -8.0	
-8.0 - -7.0	
-7.0 - -6.0	
-6.0 - -5.0	
-5.0 - -4.0	
-4.0 - -3.0	
-3.0 - -2.0	
-2.0 - -1.0	

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FIELD BOOK: 1944 / 1979
PAGE: 57-61 / 32-37

PROJECT NAME
WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE No. 6196

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FORT MYERS 239-332-2446
CERTIFICATE OF AUTHORIZATION No. 3114

CLIENT: CHARLOTTE COUNTY
DRAWN: RH DATE: 01/28/2024
CHECKED: DT DATE: 01/29/2024

HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.: 24-1940
FILE NAME: 24-1940_P303
COUNTY: CHARLOTTE
SECTION:
TOWNSHIP: S
RANGE: E

SHEET 8 OF 23

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HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

40 0 20 40 80

INTENDED DISPLAY SCALE: 1" = 40'

NAVD 88 ELEVATIONS

ELEVATION RANGE	COLOR
-19.0 - -18.0	
-18.0 - -17.0	
-17.0 - -16.0	
-16.0 - -15.0	
-15.0 - -14.0	
-14.0 - -13.0	
-13.0 - -12.0	
-12.0 - -11.0	
-11.0 - -10.0	
-10.0 - -9.0	
-9.0 - -8.0	
-8.0 - -7.0	
-7.0 - -6.0	
-6.0 - -5.0	
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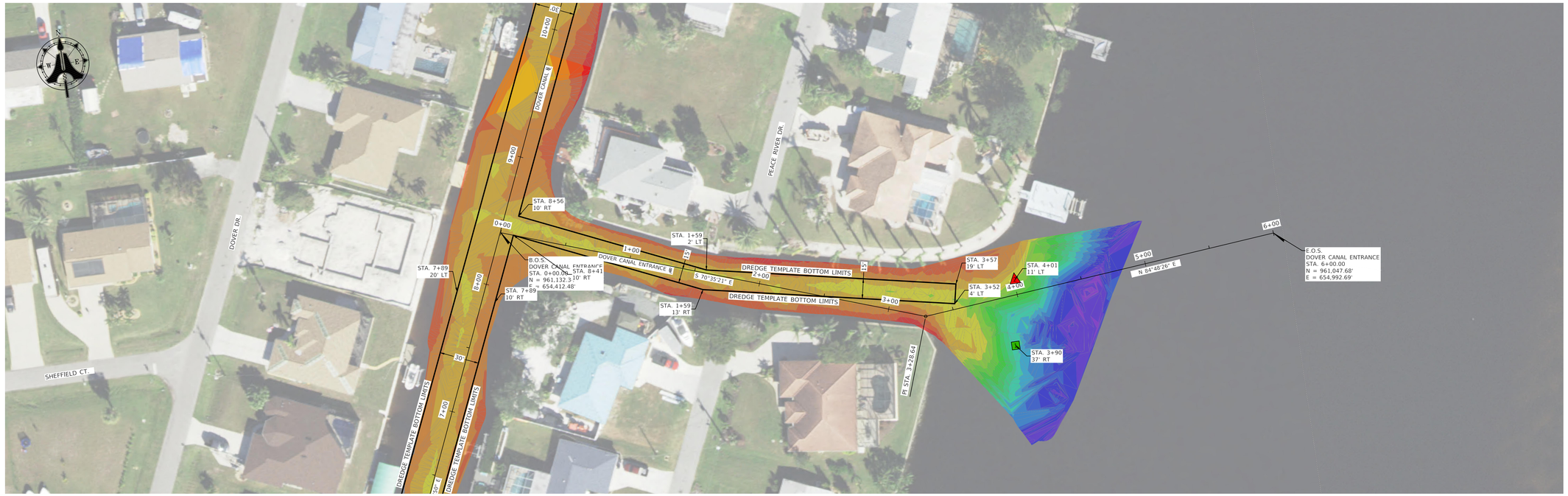
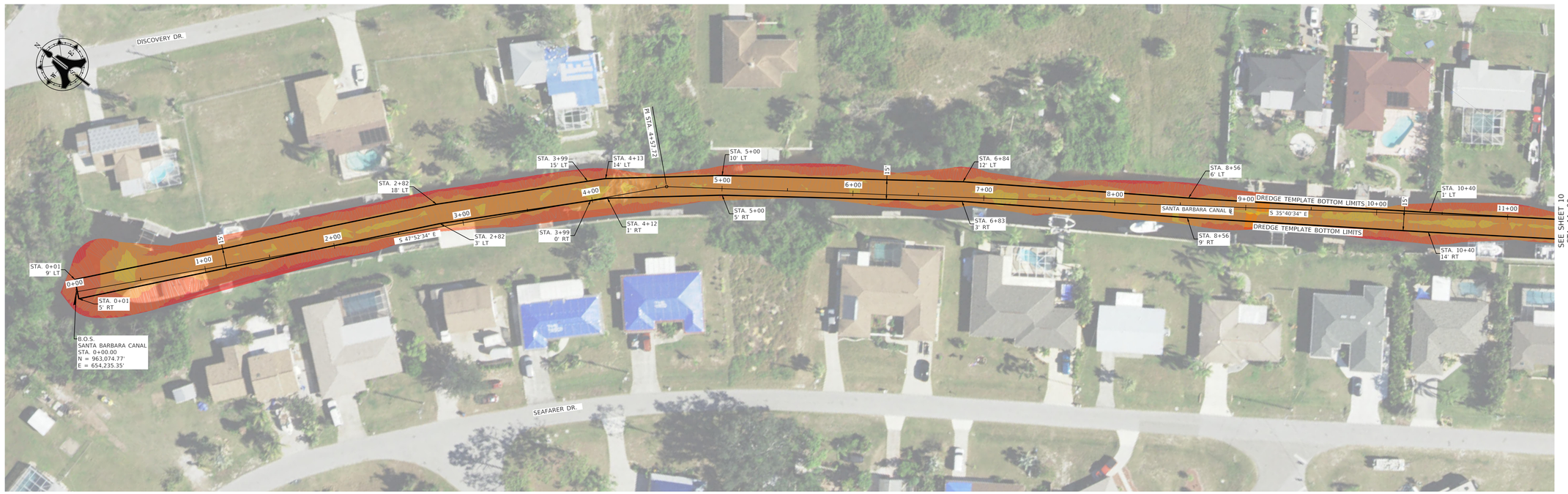
-4.0 - -3.0	
-3.0 - -2.0	
-2.0 - -1.0	

SEE SHEET 8



SEE SHEET 8



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FIELD BOOK: 1944 / 1979
PAGE: 57-61 / 32-37

PROJECT NAME: WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. 6246

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FAX 239.332.4569
CERTIFICATE OF AUTHORIZATION No. 3114

DRAWN: RH DATE: 01/28/2024 CHECKED: DT DATE: 01/29/2024

CLIENT: CHARLOTTE COUNTY

HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.: 24-1940
FILE NAME: 24-1940_P303
COUNTY: CHARLOTTE
SECTION:
TOWNSHIP: S
RANGE: E

SHEET 9 OF 23

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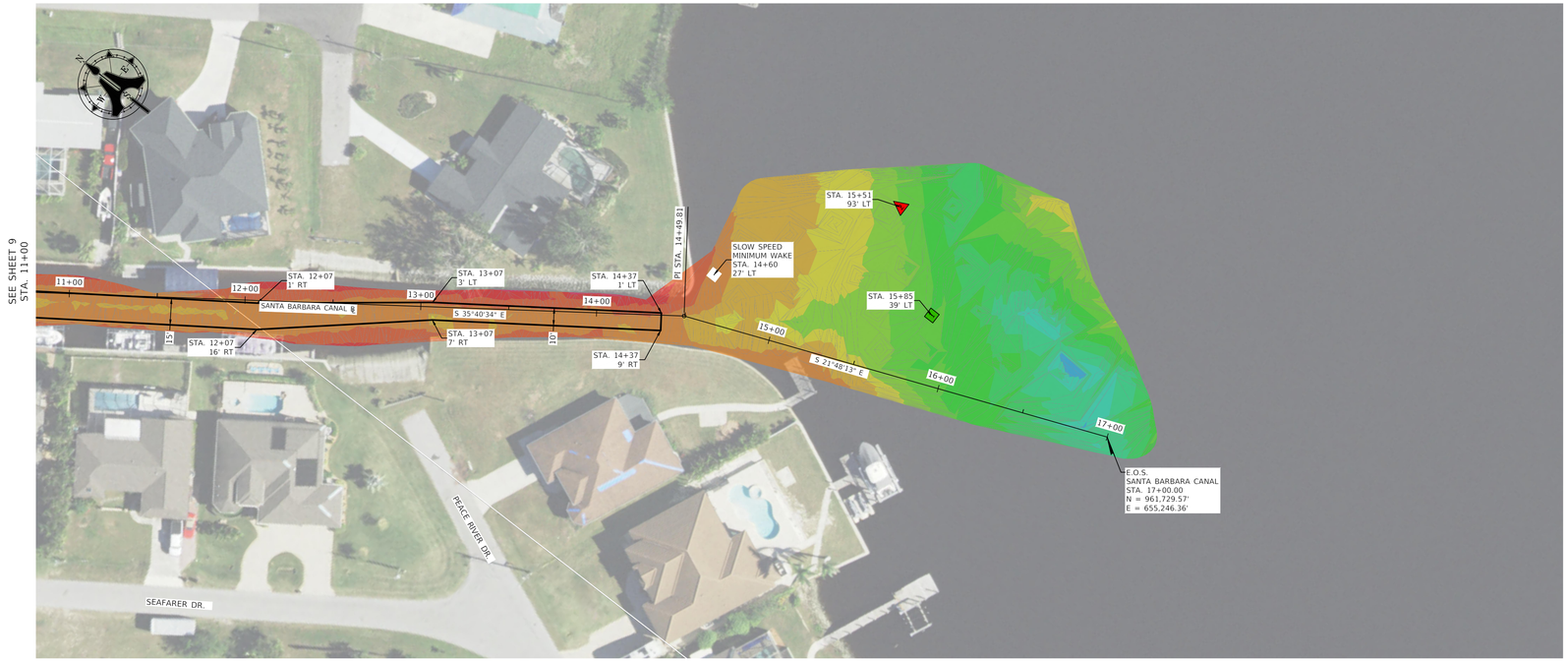
HYDROGRAPHIC SURVEY

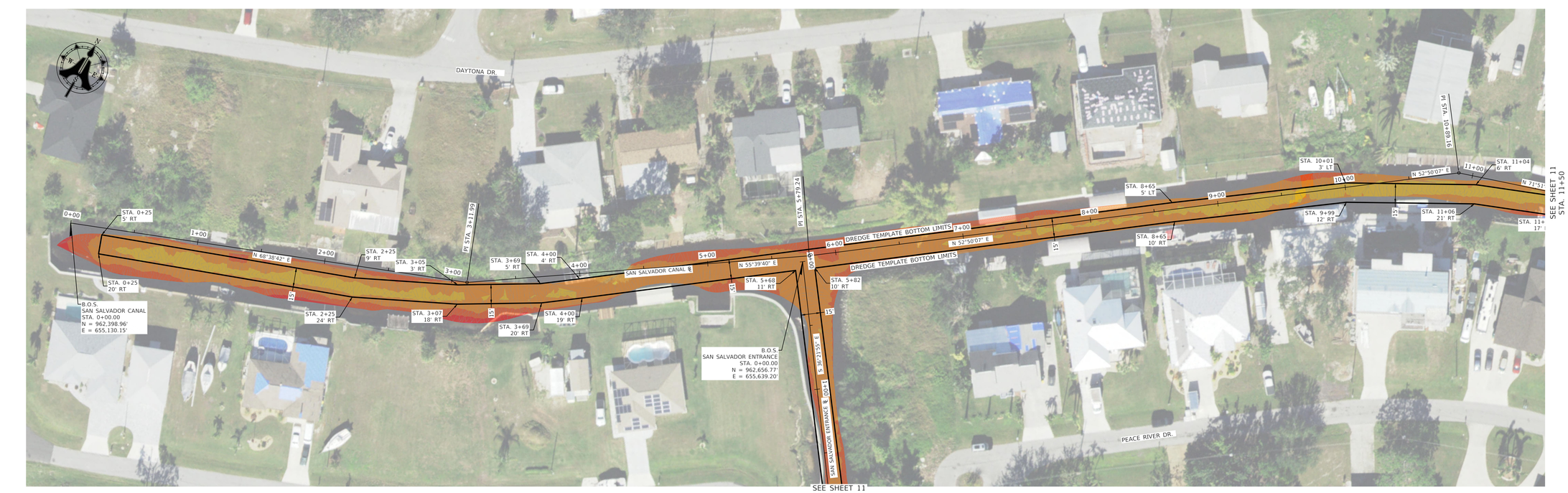
HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

40 0 20 40 80
INTENDED DISPLAY SCALE: 1" = 40'

NAVD 88 ELEVATIONS

ELEVATION RANGE	COLOR
-19.0 - -18.0	
-18.0 - -17.0	
-17.0 - -16.0	
-16.0 - -15.0	
-15.0 - -14.0	
-14.0 - -13.0	
-13.0 - -12.0	
-12.0 - -11.0	
-11.0 - -10.0	
-10.0 - -9.0	
-9.0 - -8.0	
-8.0 - -7.0	
-7.0 - -6.0	
-6.0 - -5.0	
-5.0 - -4.0	
-4.0 - -3.0	
-3.0 - -2.0	
-2.0 - -1.0	





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FIELD BOOK: | PAGE:
1944 / 1979 | 57-61 / 32-37

PROJECT NAME
WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. 6416
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FORT MYERS, FLORIDA 33901
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FORT MYERS 239-332-2960
CERTIFICATE OF AUTHORIZATION No. 3114

CLIENT: CHARLOTTE COUNTY
DRAWN: RH | DATE: 01/28/2024
CHECKED: DT | DATE: 01/29/2024

HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.: 24-1940
FILE NAME: 24-1940_P303
COUNTY: CHARLOTTE | SECTION: | TOWNSHIP: S | RANGE: E

SHEET 10 OF 23

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HYDROGRAPHIC SURVEY

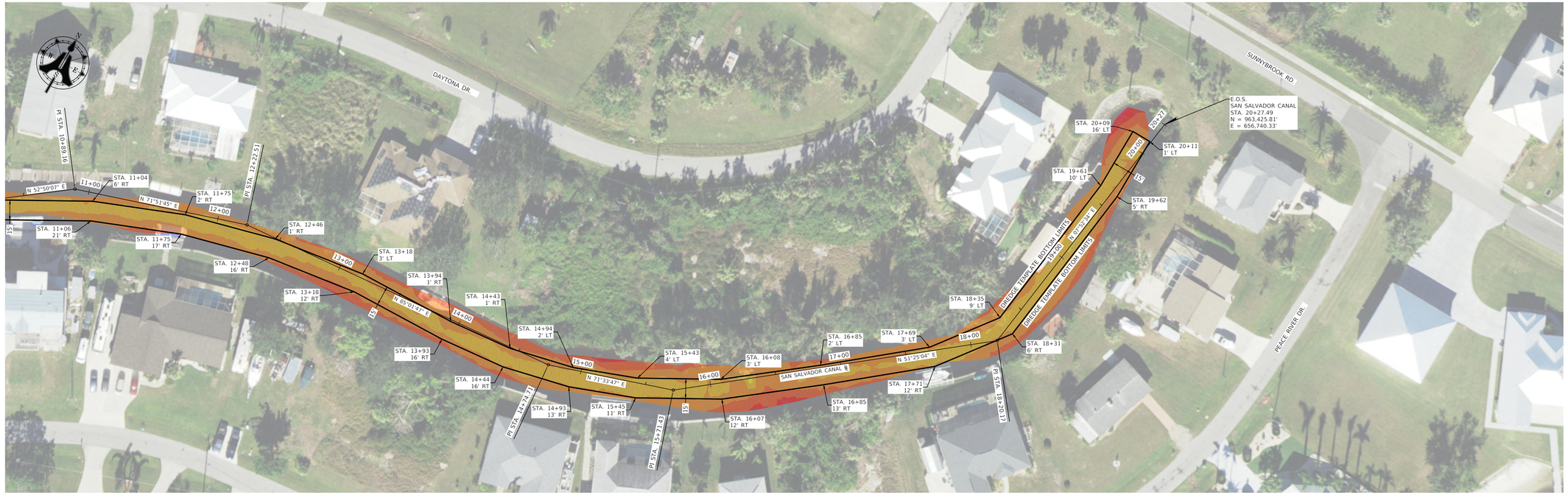
HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

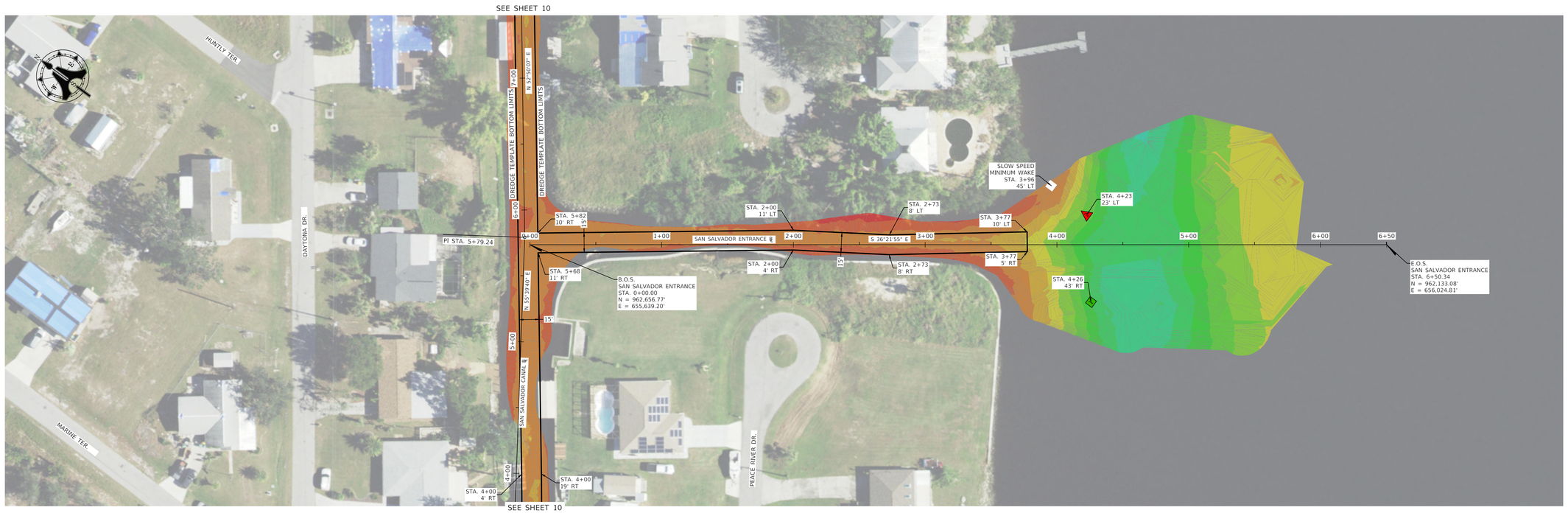
40 0 20 40 80

INTENDED DISPLAY SCALE: 1" = 40'

NAVD 88 ELEVATIONS

ELEVATION RANGE	COLOR
-19.0 - -18.0	
-18.0 - -17.0	
-17.0 - -16.0	
-16.0 - -15.0	
-15.0 - -14.0	
-14.0 - -13.0	
-13.0 - -12.0	
-12.0 - -11.0	
-11.0 - -10.0	
-10.0 - -9.0	
-9.0 - -8.0	
-8.0 - -7.0	
-7.0 - -6.0	
-6.0 - -5.0	
-5.0 - -4.0	
-4.0 - -3.0	
-3.0 - -2.0	
-2.0 - -1.0	





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FIELD BOOK: 1944 / 1979
PAGE: 57-61 / 32-37

PROJECT NAME:
WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
LICENSE NUMBER LS6746, STATE OF FLORIDA
NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

AIM Engineering & Surveying, Inc.
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2161 FOWLER STREET, SUITE 100
FORT MYERS, FLORIDA 33901
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TOLL FREE 800-226-4569
PHONE 239-332-4569
CERTIFICATE OF AUTHORIZATION No. 3114

CLIENT: CHARLOTTE COUNTY

DRAWN: RH | DATE: 01/28/2024 | CHECKED: DT | DATE: 01/29/2024

HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.: 24-1940 | FILE NAME: 24-1940_P303
COUNTY: CHARLOTTE | SECTION: | TOWNSHIP: S | RANGE: E

SHEET 11 OF 23

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HYDROGRAPHIC SURVEY

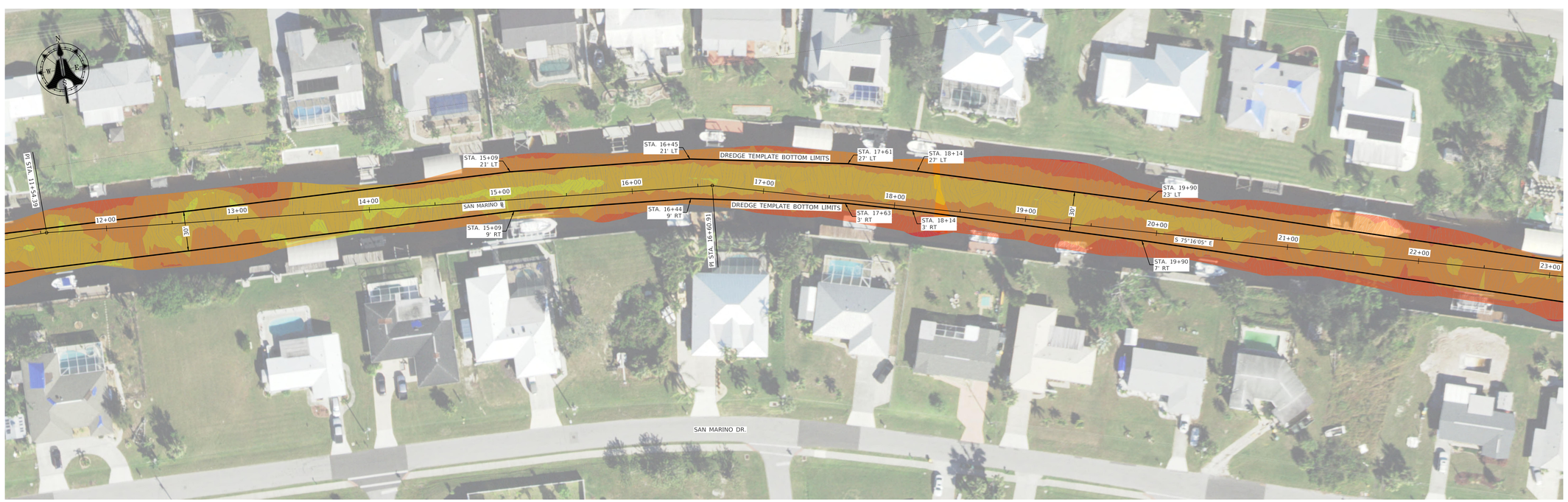
HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

40 0 20 40 80

INTENDED DISPLAY SCALE: 1" = 40'

NAVD 88 ELEVATIONS

ELEVATION RANGE	COLOR
-19.0 - -18.0	
-18.0 - -17.0	
-17.0 - -16.0	
-16.0 - -15.0	
-15.0 - -14.0	
-14.0 - -13.0	
-13.0 - -12.0	
-12.0 - -11.0	
-11.0 - -10.0	
-10.0 - -9.0	
-9.0 - -8.0	
-8.0 - -7.0	
-7.0 - -6.0	
-6.0 - -5.0	
-5.0 - -4.0	
-4.0 - -3.0	
-3.0 - -2.0	
-2.0 - -1.0	



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FIELD BOOK: 1944 / 1979

PAGE: 57-61 / 32-37

PROJECT NAME:
WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
LICENSE NUMBER LS 6548

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CERTIFICATE OF AUTHORIZATION No. 3114

CLIENT:	DRAWN:	DATE:	CHECKED:	DATE:
CHARLOTTE COUNTY	RH	01/28/2024	DT	01/29/2024

HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO:	FILE NAME:
24-1940	24-1940_P303

COUNTY:	SECTION:	TOWNSHIP:	RANGE:
CHARLOTTE		S	E

SHEET 12 OF 23

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HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

40 0 20 40 80
INTENDED DISPLAY SCALE: 1" = 40'

NAVD 88 ELEVATIONS

ELEVATION RANGE	COLOR
-19.0 - -18.0	
-18.0 - -17.0	
-17.0 - -16.0	
-16.0 - -15.0	
-15.0 - -14.0	
-14.0 - -13.0	
-13.0 - -12.0	
-12.0 - -11.0	
-11.0 - -10.0	
-10.0 - -9.0	
-9.0 - -8.0	
-8.0 - -7.0	
-7.0 - -6.0	
-6.0 - -5.0	
-5.0 - -4.0	
-4.0 - -3.0	
-3.0 - -2.0	
-2.0 - -1.0	

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FIELD BOOK: 1944 / 1979
PAGE: 57-61 / 32-37

PROJECT NAME:
WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
PSM LICENSE NUMBER 6543

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FORT MYERS, FLORIDA 33901
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TOLL FREE 800-226-4569
PHONE 239-332-2580
FAX 239-332-2594
CERTIFICATE OF AUTHORIZATION No. 3114

CLIENT: CHARLOTTE COUNTY
DRAWN: RH
DATE: 01/28/2024
CHECKED: DT
DATE: 01/28/2024

HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.: 24-1940
FILE NAME: 24-1940_P303
COUNTY: CHARLOTTE
SECTION:
TOWNSHIP: S
RANGE: E

SHEET 13 OF 23

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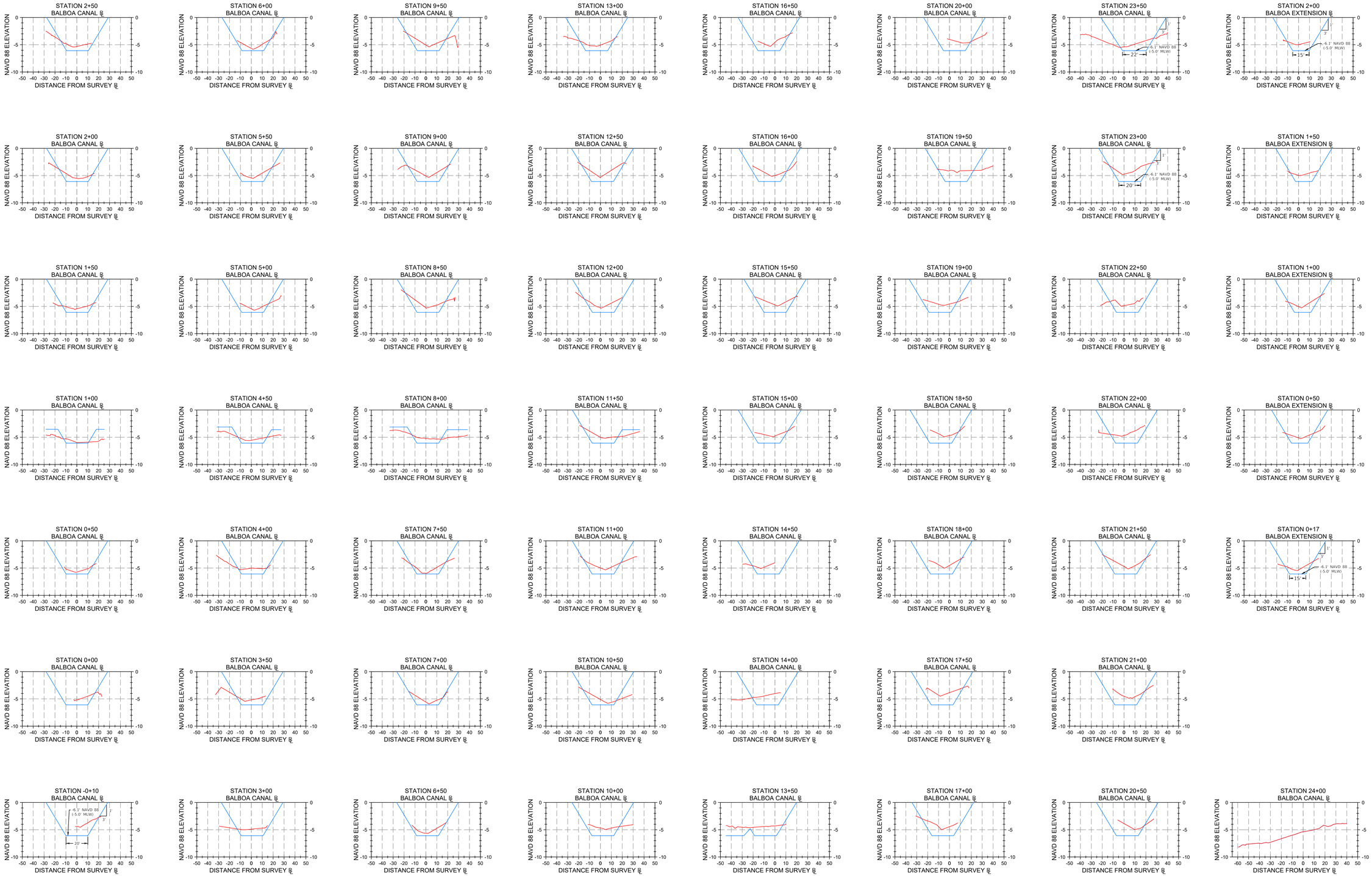
HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

SECTION SHEET LEGEND:

℄ = BASELINE
= EXISTING BOTTOM SURFACE
= DREDGE TEMPLATE
MLW = MEAN LOW WATER
NAVD 88 = NORTH AMERICAN DATUM OF 1988

SCALE:
HORIZONTAL 1" = 40'
VERTICAL SCALE 1" = 8'



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FIELD BOOK: 1944 / 1979
PAGE: 57-61 / 32-37

PROJECT NAME: WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. 6196

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FORT MYERS 239-334-4569
CERTIFICATE OF AUTHORIZATION No. 3114

DRAWN: RH
DATE: 01/28/2024
CHECKED: DT
DATE: 01/29/2024

CLIENT: CHARLOTTE COUNTY

HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

FILE NAME: 24-1940_PH304
TOWNSHIP: S
RANGE: E
PROJECT NO.: 24-1940
COUNTY: CHARLOTTE
SECTION:

SHEET 14 OF 23

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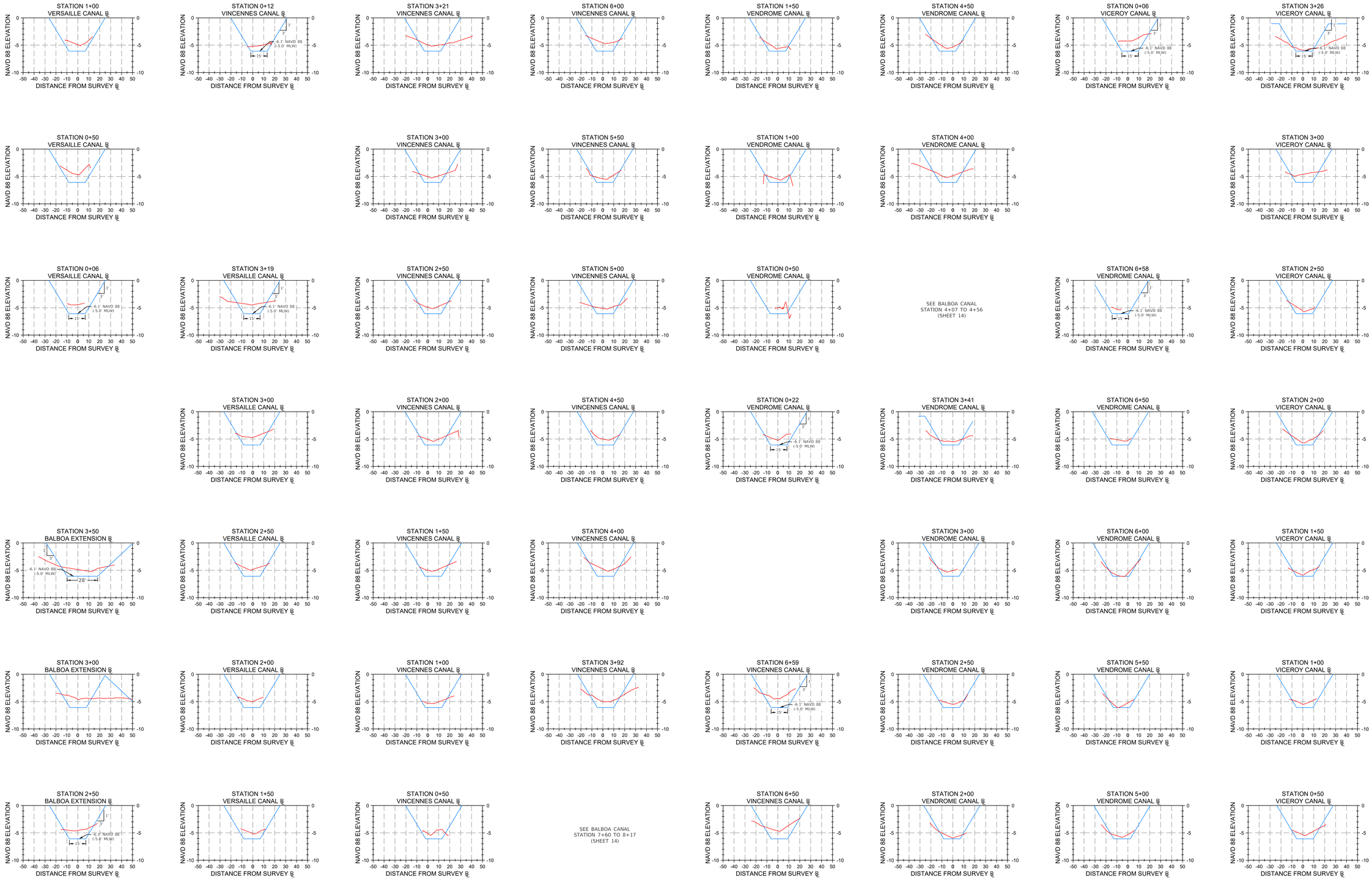
HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

SECTION SHEET LEGEND:

℄ = BASELINE
= EXISTING BOTTOM SURFACE
= DREDGE TEMPLATE
MLW = MEAN LOW WATER
NAVD 88 = NORTH AMERICAN DATUM OF 1988

SCALE:
HORIZONTAL 1" = 40'
VERTICAL SCALE 1" = 8'



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FIELD BOOK: 1944 / 1979 PAGE: 57-61 / 32-37

PROJECT NAME: WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. 6176

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FORT MYERS 239-334-4569
CERTIFICATE OF AUTHORIZATION No. 3114

DRAWN:	DATE:	CHECKED:	DATE:
RH	01/28/2024	DT	01/29/2024

CLIENT: CHARLOTTE COUNTY

HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.:	COUNTY:	SECTION:	TOWNSHIP:	RANGE:	FILE NAME:
24-1940	CHARLOTTE		S	E	24-1940_PH304

SHEET 15 OF 23

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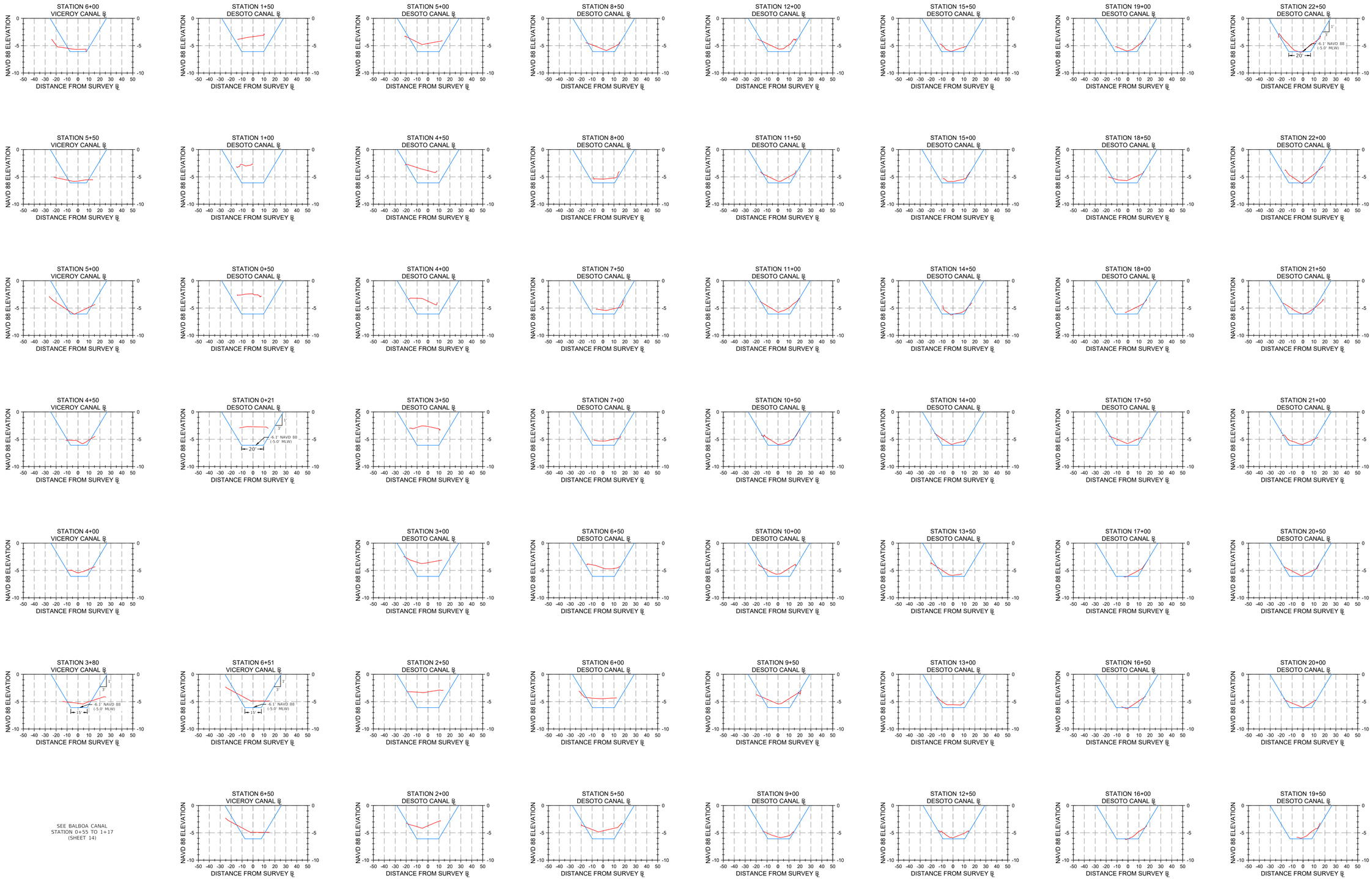
HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

SECTION SHEET LEGEND:

- ℄ = BASELINE
- = EXISTING BOTTOM SURFACE
- = DREDGE TEMPLATE
- MLW = MEAN LOW WATER
- NAVD 88 = NORTH AMERICAN DATUM OF 1988

SCALE:
HORIZONTAL 1" = 40'
VERTICAL SCALE 1" = 8'



SEE BALBOA CANAL
STATION 0+55 TO 1+17
(SHEET 14)

No.	DATE:	BY:	REVISIONS:
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FIELD BOOK: 1944 / 1979
PAGE: 57-61 / 32-37

PROJECT NAME:
WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. 6516

NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

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FORT MYERS, FLORIDA 33901
www.aimengr.com
TOLL FREE 800-226-4569
FORT MYERS 239-334-4569
CERTIFICATE OF AUTHORIZATION No. 3114

DRAWN:	DATE:	CHECKED:	DATE:
RH	01/28/2024	DT	01/29/2024

CLIENT: CHARLOTTE COUNTY

HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.:	COUNTY:	SECTION:	TOWNSHIP:	RANGE:	FILE NAME:
24-1940	CHARLOTTE		S	E	24-1940_PH304

SHEET 16 OF 23

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HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

SECTION SHEET LEGEND:

℄ = BASELINE
= EXISTING BOTTOM SURFACE
= DREDGE TEMPLATE
MLW = MEAN LOW WATER
NAVD 88 = NORTH AMERICAN DATUM OF 1988

SCALE:
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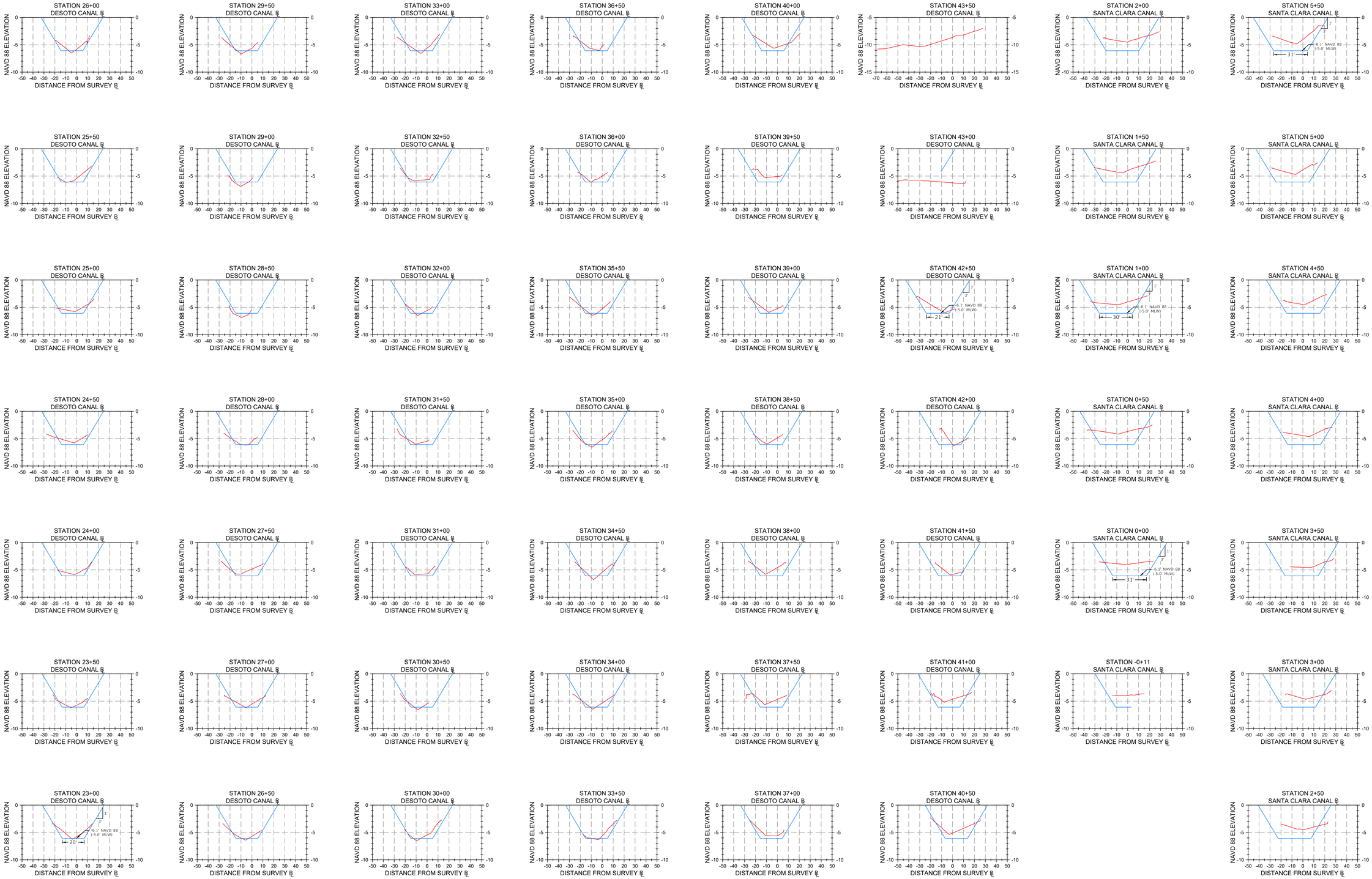
VERTICAL SCALE 1" = 8'



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FIELD BOOK: 1944 / 1979 PAGE: 57-61 / 32-37

PROJECT NAME: WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

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PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. 6176

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DRAWN:	DATE:	CHECKED:	DATE:
RH	01/28/2024	DT	01/29/2024

CLIENT: CHARLOTTE COUNTY

HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.:	COUNTY:	SECTION:	TOWNSHIP:	RANGE:	FILE NAME:
24-1940	CHARLOTTE		S	E	24-1940_PH304

SHEET 17 OF 23

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HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

SECTION SHEET LEGEND:

℄ = BASELINE
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MLW = MEAN LOW WATER
NAVD 88 = NORTH AMERICAN DATUM OF 1988

SCALE:
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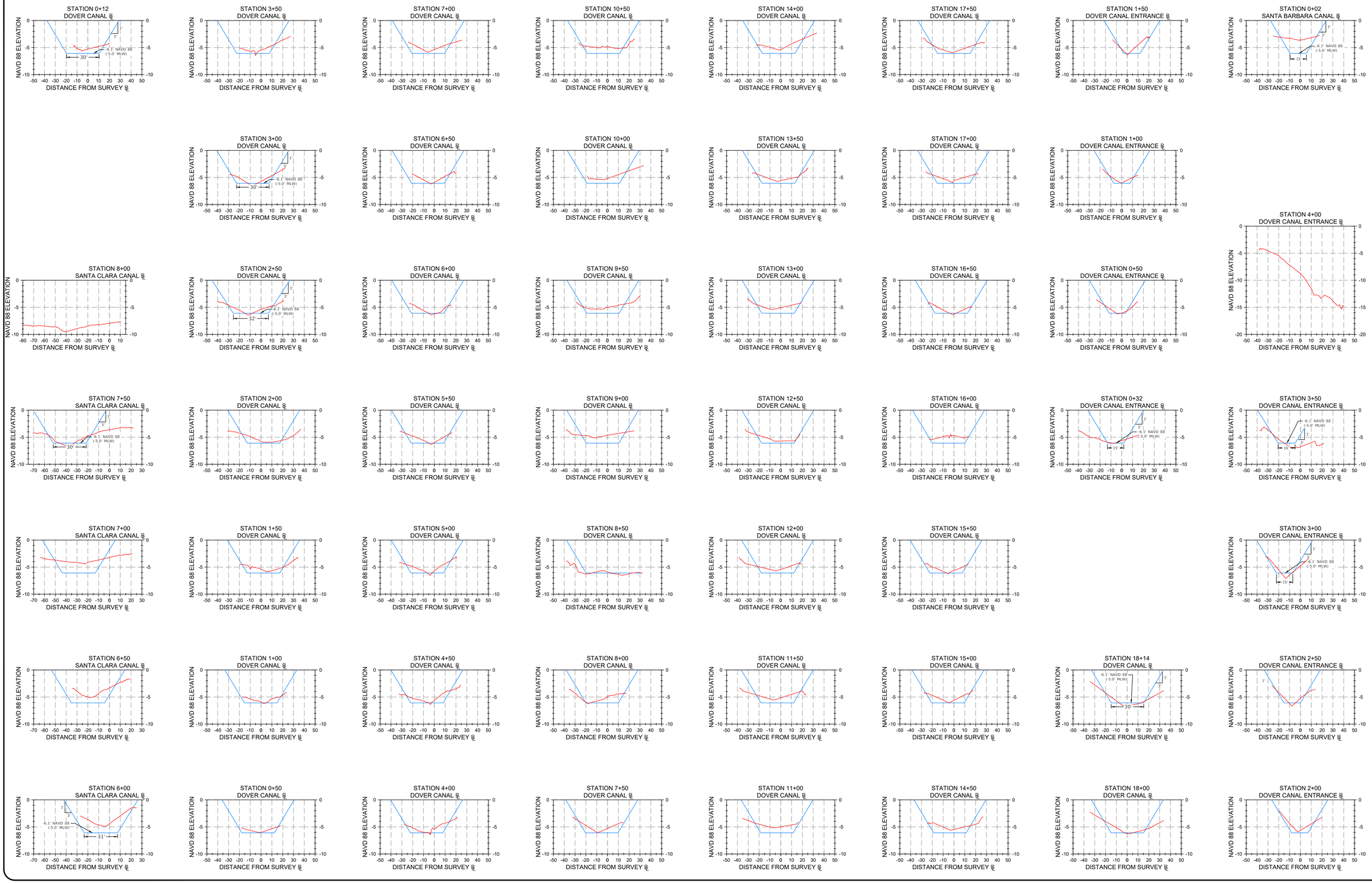

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FIELD BOOK: 1944 / 1979 PAGE: 57-61 / 32-37

PROJECT NAME: WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
LICENSE NUMBER LS-6490

CERTIFICATE OF AUTHORIZATION No. 3114

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CLIENT: CHARLOTTE COUNTY

DRAWN: RH DATE: 01/28/2024 CHECKED: DT DATE: 01/29/2024

HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.: 24-1940 COUNTY: CHARLOTTE SECTION: TOWNSHIP: S RANGE: E FILE NAME: 24-1940_PH304

SHEET 18 OF 23

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HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

SECTION SHEET LEGEND:

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MLW = MEAN LOW WATER
NAVD 88 = NORTH AMERICAN DATUM OF 1988

SCALE:
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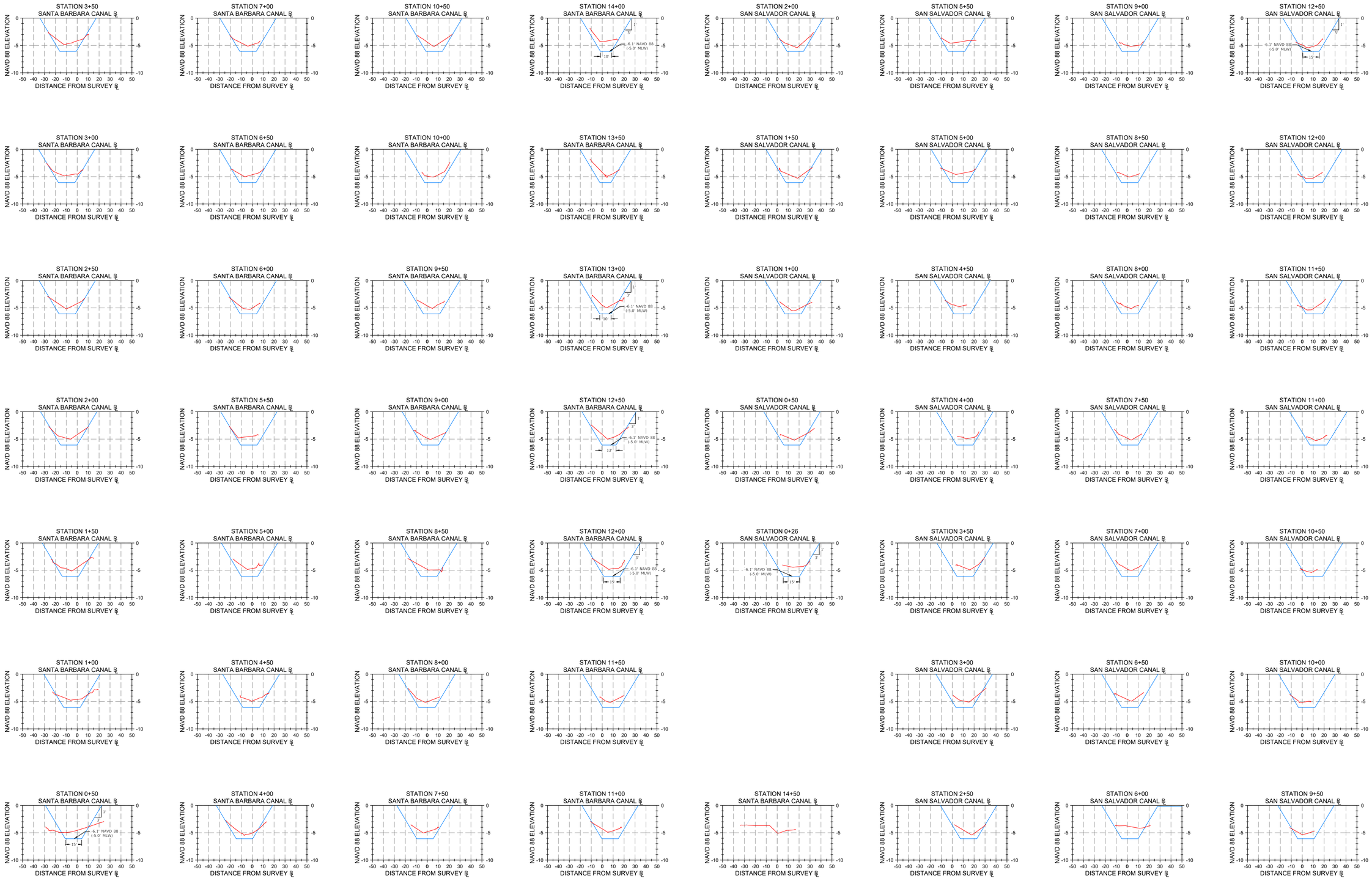

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FIELD BOOK: 1944 / 1979
PAGE: 57-61 / 32-37

PROJECT NAME:
WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

DARREN TOWNSEND
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FLORIDA CERTIFICATE NO. 6345

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TOLL FREE 800-226-4569
FORT MYERS 239-332-2960
CERTIFICATE OF AUTHORIZATION No. 3114

DRAWN: RH — DATE: 01/28/2024
CHECKED: DT — DATE: 01/29/2024

CLIENT: CHARLOTTE COUNTY

HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.: 24-1940
FILE NAME: 24-1940_PH304
COUNTY: CHARLOTTE
SECTION:
TOWNSHIP: S
RANGE: E

SHEET 19 OF 23

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HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

SECTION SHEET LEGEND:

℄ = BASELINE
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MLW = MEAN LOW WATER
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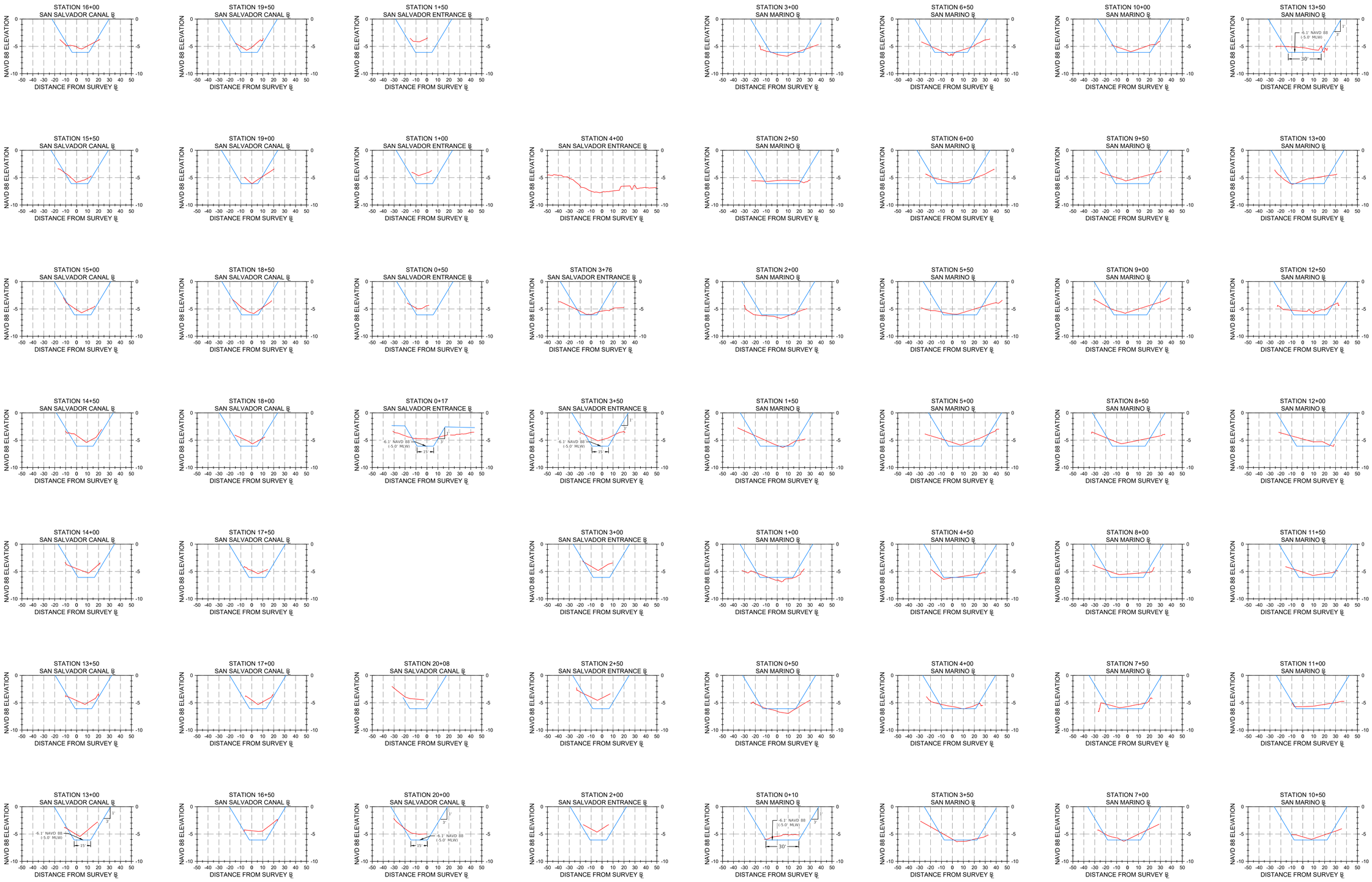

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FIELD BOOK: 1944 / 1979
PAGE: 57-61 / 32-37

PROJECT NAME: WO# 322 PRE-STORM BATHYMETRIC SURVEY'S

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

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DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
LICENSE NUMBER LS 6548

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CLIENT: CHARLOTTE COUNTY

DRAWN: RH
DATE: 01/28/2024
CHECKED: DT
DATE: 01/29/2024

HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.: 24-1940
FILE NAME: 24-1940_PH304
COUNTY: CHARLOTTE
SECTION:
TOWNSHIP: S
RANGE: E

SHEET 20 OF 23

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HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

SECTION SHEET LEGEND:

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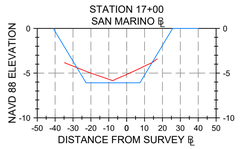

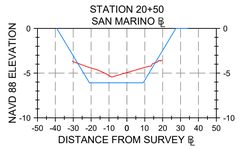

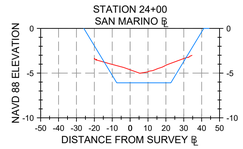

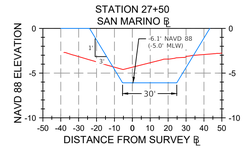

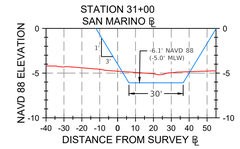

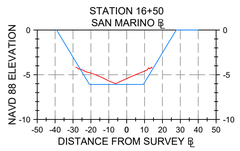

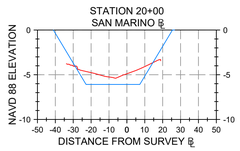

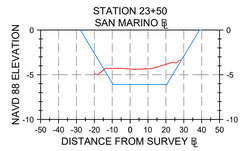

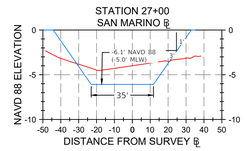

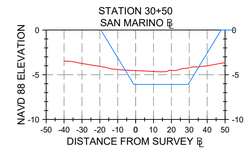

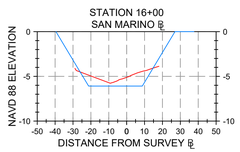

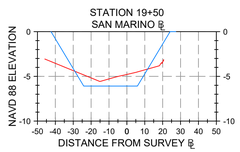

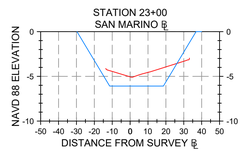

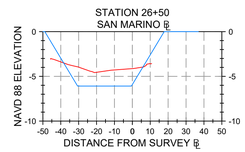

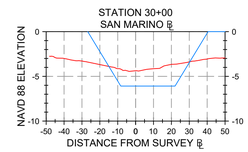

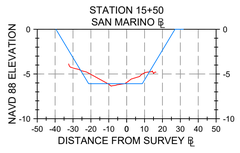

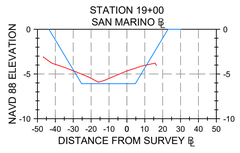

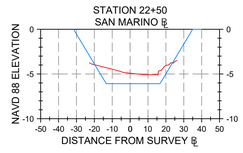

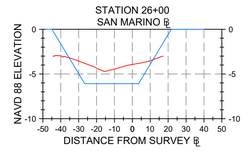

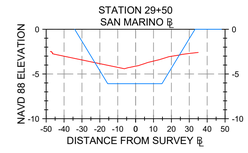

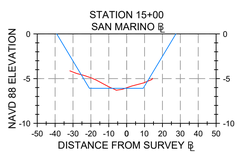

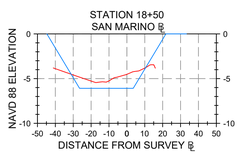

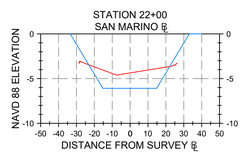

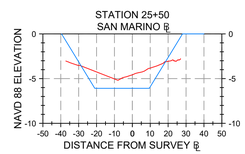

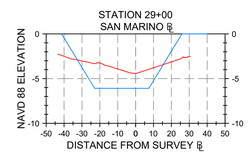

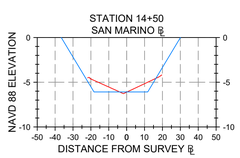

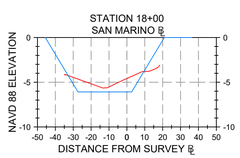

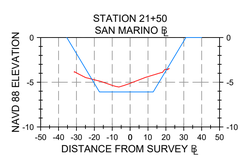

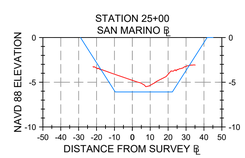

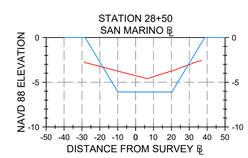

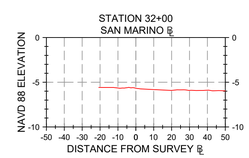

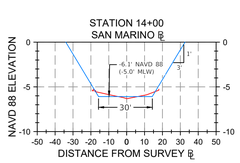

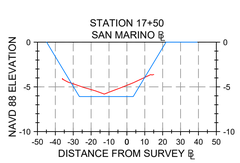

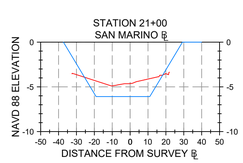

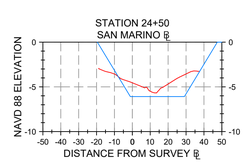

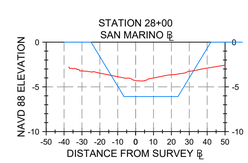

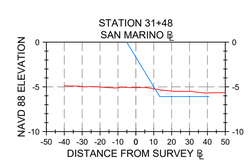

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FIELD BOOK: 1944 / 1979
PAGE: 57-61 / 32-37

PROJECT NAME:
WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. 6176

NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

AIM Engineering & Surveying, Inc.
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FORT MYERS, FLORIDA 33901
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TOLL FREE 800-226-4569
FORT MYERS 239-332-4569
CERTIFICATE OF AUTHORIZATION No. 3114

CLIENT: CHARLOTTE COUNTY

DRAWN: RH DATE: 01/28/2024
CHECKED: DT DATE: 01/29/2024

HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.: 24-1940
FILE NAME: 24-1940_PH304
COUNTY: CHARLOTTE
SECTION:
TOWNSHIP: S
RANGE: E

SHEET 21 OF 23

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HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

BALBOA CANAL

VOLUMES ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
-0+10	0	0	0
0+00	10	10	10
0+50	50	31	41
1+00	50	26	67
1+50	50	37	104
2+00	50	43	147
2+50	50	44	191
3+00	50	51	242
3+50	50	49	292
4+00	50	38	329
4+50	50	56	386
5+00	50	37	423
5+50	50	44	467
6+00	50	50	517
6+50	50	45	562
7+00	50	42	604
7+50	50	44	648
8+00	50	65	713
8+50	50	51	764
9+00	50	65	830
9+50	50	68	897
10+00	50	57	954
10+50	50	48	1002
11+00	50	61	1063
11+50	50	81	1144
12+00	50	70	1214
12+50	50	73	1287
13+00	50	72	1359
13+50	50	80	1438
14+00	50	91	1529
14+50	50	52	1582
15+00	50	62	1643
15+50	50	82	1726
16+00	50	93	1818
16+50	50	84	1902
17+00	50	82	1983
17+50	50	108	2091
18+00	50	86	2177
18+50	50	78	2256
19+00	50	81	2336
19+50	50	76	2412
20+00	50	66	2478
20+50	50	69	2547
21+00	50	70	2617
21+50	50	103	2720
22+00	50	101	2821
22+50	50	82	2903
23+00	50	100	3003
23+50	50	73	3076
24+00	50	22	3098

BALBOA CANAL TOTAL CY = 3,098

BALBOA EXTENSION

VOLUMES ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
0+17	0	0	0
0+50	33	28	28
1+00	50	47	76
1+50	50	56	131
2+00	50	42	173
2+50	50	63	236
3+00	50	65	301
3+50	50	11	313

BALBOA EXTENSION TOTAL CY = 313

VERSAILLE CANAL

VOLUMES ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
0+06	0	0	0
0+50	44	61	61
1+00	50	71	133
1+50	50	48	181
2+00	50	50	231
2+50	50	54	285
3+00	50	63	347
3+19	19	25	372

VERSAILLE CANAL TOTAL CY = 372

VINCENNES CANAL

VOLUMES ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
0+12	0	0	0
0+50	38	28	28
1+00	50	38	65
1+50	50	44	110
2+00	50	37	147
2+50	50	43	189
3+00	50	48	237
3+21	21	19	256
3+92	71	0	256
4+00	8	8	264
4+50	50	47	311
5+00	50	55	367
5+50	50	45	412
6+00	50	46	458
6+50	50	78	536
6+59	9	15	552

VINCENNES CANAL TOTAL CY = 552

VENDROME CANAL

VOLUMES ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
0+22	0	0	0
0+50	28	16	16
1+00	50	9	26
1+50	50	25	51
2+00	50	14	65
2+50	50	23	88
3+00	50	35	123
3+41	41	24	147
4+00	59	0	147
4+50	50	38	185
5+00	50	34	219
5+50	50	22	241
6+00	50	23	263
6+50	50	21	284
6+58	8	4	288

VENDROME CANAL TOTAL CY = 288

VICEROY CANAL

VOLUMES ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
0+06	0	0	0
0+50	44	35	35
1+00	50	32	68
1+50	50	28	96
2+00	50	25	121
2+50	50	34	155
3+00	50	38	192
3+26	26	18	211
3+80	54	0	211
4+00	20	13	224
4+50	50	23	247
5+00	50	13	260
5+50	50	14	273
6+00	50	11	285
6+50	50	34	319
6+51	1	1	320

VICEROY CANAL TOTAL CY = 320

DESOTO CANAL

VOLUMES ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
0+21	0	0	0
0+50	29	90	90
1+00	50	105	195
1+50	50	90	285
2+00	50	112	397
2+50	50	136	533
3+00	50	146	679
3+50	50	145	824
4+00	50	106	930
4+50	50	91	1021
5+00	50	86	1107
5+50	50	85	1191
6+00	50	86	1277
6+50	50	72	1350
7+00	50	58	1408
7+50	50	27	1434
8+00	50	33	1467
8+50	50	31	1499
9+00	50	24	1522
9+50	50	37	1559
10+00	50	59	1618
10+50	50	35	1654
11+00	50	47	1700
11+50	50	41	1741
12+00	50	49	1790
12+50	50	35	1824
13+00	50	32	1857
13+50	50	23	1880
14+00	50	24	1904
14+50	50	20	1924
15+00	50	23	1947
15+50	50	24	1970
16+00	50	13	1983
16+50	50	13	1996
17+00	50	11	2007
17+50	50	24	2031
18+00	50	24	2055
18+50	50	25	2079
19+00	50	30	2109
19+50	50	25	2134
20+00	50	20	2154
20+50	50	24	2178
21+00	50	33	2211
21+50	50	32	2243
22+00	50	35	2278
22+50	50	37	2314
23+00	50	41	2356
23+50	50	28	2383
24+00	50	24	2408
24+50	50	29	2437
25+00	50	31	2468
25+50	50	29	2496
26+00	50	27	2523
26+50	50	28	2551
27+00	50	21	2572
27+50	50	36	2608
28+00	50	33	2641
28+50	50	10	2651
29+00	50	1	2652
29+50	50	3	2655

VOLUMES ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
30+00	50	22	2677
30+50	50	18	2695
31+00	50	16	2712
31+50	50	26	2737
32+00	50	14	2751
32+50	50	23	2774
33+00	50	30	2804
33+50	50	34	2838
34+00	50	28	2866
34+50	50	25	2891
35+00	50	34	2925
35+50	50	29	2954
36+00	50	30	2983
36+50	50	25	3008
37+00	50	32	3040
37+50	50	52	3092
38+00	50	48	3141
38+50	50	39	3180
39+00	50	34	3213
39+50	50	42	3255
40+00	50	49	3304
40+50	50	67	3371
41+00	50	65	3437
41+50	50	48	3485
42+00	50	25	3510
42+50	50	52	3561
43+00	50	38	3599
43+50	50	0	3599

DESOTO CANAL TOTAL CY = 3,599

SANTA CLARA CANAL

VOLUMES ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
-0+11	0	0	0
0+00	11	31	31
0+50	50	158	189
1+00	50	138	327
1+50	50	135	462
2+00	50	139	601
2+50	50	118	720
3+00	50	106	826
3+50	50	99	925
4+00	50	115	1041
4+50	50	141	1182
5+00	50	149	1331
5+50	50	144	1475
6+00	50	163	1638
6+50	50	136	1773
7+00	50	86	1859
7+50	50	48	1907
8+00	50	2	1909

SANTA CLARA CANAL TOTAL CY = 1,909

VOLUME TABLES

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FIELD BOOK: 1944 / 1979 PAGE: 57-61 / 32-37

PROJECT NAME: WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. 6506

NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

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PHONE 239-332-4569
CERTIFICATE OF AUTHORIZATION No. 3114

DRAWN: RH DATE: 01/28/2024 CHECKED: DT DATE: 01/29/2024

CLIENT: CHARLOTTE COUNTY

HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO.: 24-1940 COUNTY: CHARLOTTE SECTION: TOWNSHIP: S RANGE: E FILE NAME: 24-1940_PH304

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HYDROGRAPHIC SURVEY

HARBOR HEIGHTS WATERWAYS
CHARLOTTE COUNTY, FLORIDA

DOVER CANAL

VOLUMES ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
0+12	0	0	0
0+50	38	23	23
1+00	50	33	56
1+50	50	40	96
2+00	50	50	145
2+50	50	39	184
3+00	50	0	184
3+50	50	32	216
4+00	50	30	247
4+50	50	38	285
5+00	50	44	328
5+50	50	46	375
6+00	50	49	423
6+50	50	36	459
7+00	50	58	517
7+50	50	66	583
8+00	50	55	638
8+50	50	48	687
9+00	50	51	738
9+50	50	83	820
10+00	50	67	887
10+50	50	55	943
11+00	50	69	1012
11+50	50	71	1082
12+00	50	56	1138
12+50	50	38	1176
13+00	50	60	1237
13+50	50	62	1299
14+00	50	61	1360
14+50	50	61	1421
15+00	50	56	1478
15+50	50	51	1528
16+00	50	47	1575
16+50	50	58	1633
17+00	50	42	1675
17+50	50	52	1727
18+00	50	40	1767
18+14	14	5	1772

DOVER CANAL TOTAL CY = 1,772

DOVER CANAL ENTRANCE

VOLUMES ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
0+32	0	0	0
0+50	18	4	4
1+00	50	13	17
1+50	50	22	39
2+00	50	32	71
2+50	50	30	101
3+00	50	13	113
3+50	50	10	124
4+00	50	1	125

DOVER CANAL ENTRANCE TOTAL CY = 125

SANTA BARBARA CANAL

VOLUMES ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
0+02	0	0	0
0+50	48	68	68
1+00	50	68	136
1+50	50	61	196
2+00	50	73	269
2+50	50	65	334
3+00	50	64	398
3+50	50	67	466
4+00	50	61	527
4+50	50	60	587
5+00	50	59	647
5+50	50	62	708
6+00	50	58	767
6+50	50	60	827
7+00	50	64	891
7+50	50	54	945
8+00	50	57	1002
8+50	50	62	1064
9+00	50	65	1129
9+50	50	62	1191
10+00	50	59	1251
10+50	50	68	1319
11+00	50	61	1379
11+50	50	60	1439
12+00	50	58	1497
12+50	50	68	1565
13+00	50	60	1625
13+50	50	59	1683
14+00	50	68	1751
14+50	50	49	1800

SANTA BARBARA CANAL TOTAL CY = 1,803

SAN SALVADOR CANAL

VOLUMES ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
0+26	0	0	0
0+50	24	26	26
1+00	50	43	69
1+50	50	53	122
2+00	50	53	175
2+50	50	51	225
3+00	50	53	278
3+50	50	57	335
4+00	50	48	383
4+50	50	48	430
5+00	50	52	483
5+50	50	71	554
6+00	50	85	639
6+50	50	71	710
7+00	50	68	778
7+50	50	62	841
8+00	50	52	893
8+50	50	47	940
9+00	50	45	985
9+50	50	39	1024
10+00	50	29	1053
10+50	50	22	1075
11+00	50	24	1099
11+50	50	42	1141
12+00	50	38	1179
12+50	50	32	1211
13+00	50	52	1264
13+50	50	56	1319
14+00	50	54	1374
14+50	50	46	1419
15+00	50	44	1464
15+50	50	36	1500
16+00	50	35	1534
16+50	50	55	1590
17+00	50	67	1657
17+50	50	54	1711
18+00	50	34	1745
18+50	50	36	1781
19+00	50	26	1807
19+50	50	29	1836
20+00	50	41	1876
20+08	8	7	1884

SAN SALVADOR CANAL TOTAL CY = 1,884

SAN SALVADOR ENTRANCE

VOLUMES ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
0+17	0	0	0
0+50	33	32	32
1+00	50	47	79
1+50	50	52	131
2+00	50	63	194
2+50	50	83	277
3+00	50	72	349
3+50	50	69	418
3+76	26	17	435
4+00	24	0	435

SAN SALVADOR ENTRANCE TOTAL CY = 435

SAN MARINO CANAL

VOLUMES ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
0+10	0	0	0
0+50	40	11	11
1+00	50	1	12
1+50	50	33	45
2+00	50	24	68
2+50	50	14	83
3+00	50	14	96
3+50	50	10	106
4+00	50	21	127
4+50	50	14	141
5+00	50	26	167
5+50	50	37	204
6+00	50	33	237
6+50	50	33	270
7+00	50	37	307
7+50	50	31	338
8+00	50	70	407
8+50	50	49	456
9+00	50	60	516
9+50	50	60	576
10+00	50	53	630
10+50	50	41	670
11+00	50	43	714
11+50	50	51	765
12+00	50	42	806
12+50	50	72	878
13+00	50	51	929
13+50	50	59	989
14+00	50	26	1014
14+50	50	31	1045
15+00	50	43	1088
15+50	50	37	1125
16+00	50	42	1167
16+50	50	63	1230
17+00	50	60	1290
17+50	50	67	1357
18+00	50	67	1424
18+50	50	73	1498
19+00	50	70	1567
19+50	50	63	1630
20+00	50	88	1718
20+50	50	87	1805
21+00	50	98	1903
21+50	50	91	1994
22+00	50	102	2096
22+50	50	115	2211
23+00	50	97	2307
23+50	50	112	2419
24+00	50	120	2540
24+50	50	110	2650
25+00	50	93	2742
25+50	50	115	2857
26+00	50	129	2986
26+50	50	126	3112
27+00	50	114	3226
27+50	50	153	3379
28+00	50	181	3560
28+50	50	144	3704
29+00	50	304	4009
29+50	50	160	4168
30+00	50	154	4322
30+50	50	127	4449
31+00	50	80	4529
31+48	48	46	4575
32+00	52	1	4576

SAN MARINO CANAL TOTAL CY = 4,576

COMBINED TOTAL CY = 21,046

VOLUME TABLES

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FIELD BOOK: 1944 / 1979 PAGE: 57-61 / 32-37

PROJECT NAME: WO# 322 PRE-STORM BATHYMETRIC SURVEYS

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

DARREN TOWNSEND
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE NO. 6176

NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

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CERTIFICATE OF AUTHORIZATION No. 3114

CLIENT: CHARLOTTE COUNTY

DRAWN:	DATE:	CHECKED:	DATE:
RH	01/28/2024	DT	01/29/2024

HYDROGRAPHIC SURVEY
HARBOR HEIGHTS WATERWAYS

PROJECT NO:	FILE NAME:		
24-1940	24-1940_PH304		
COUNTY:	SECTION:	TOWNSHIP:	RANGE:
CHARLOTTE		S	E

SHEET 23 OF 23

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