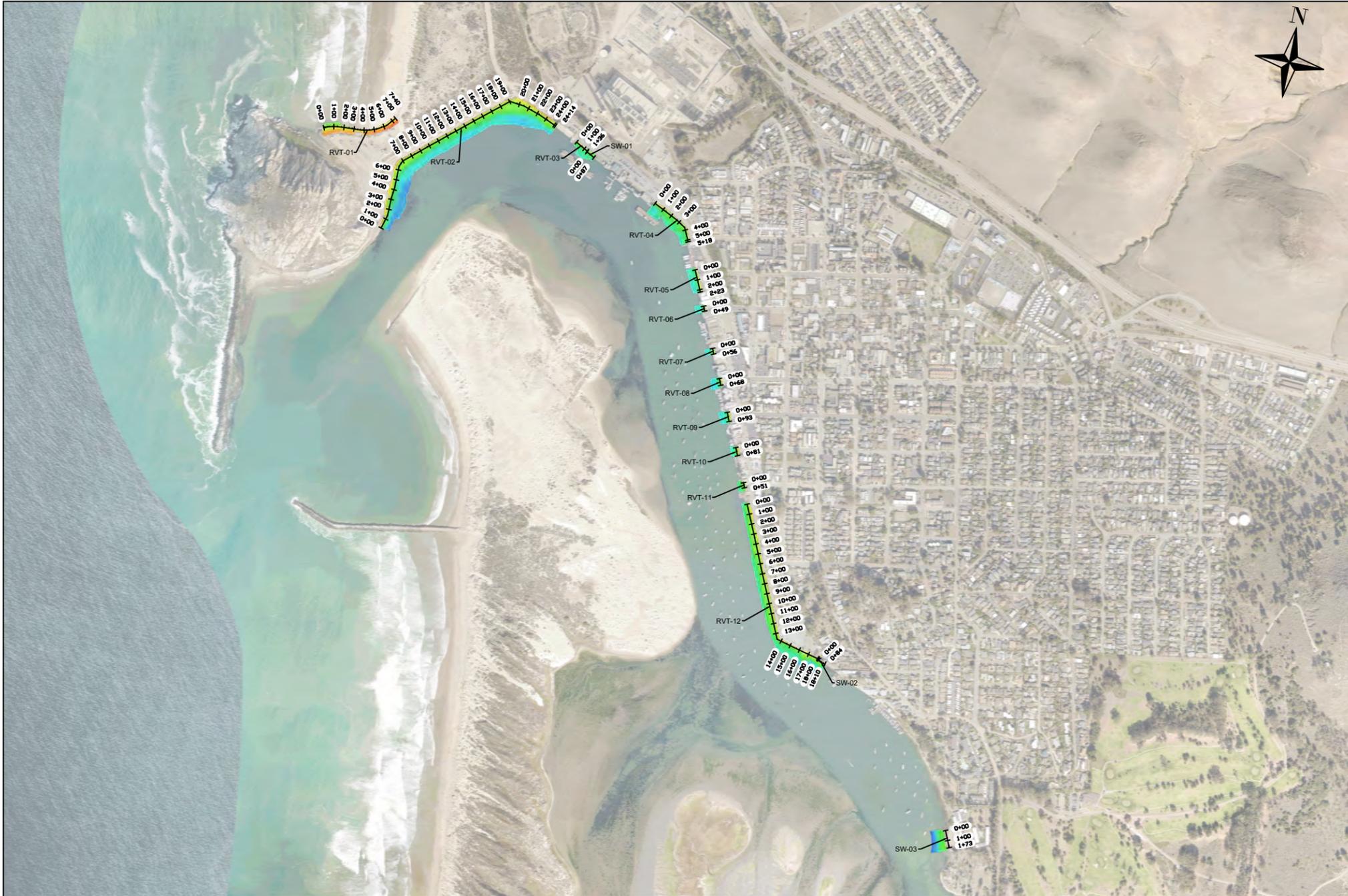


Appendix C: SURVEY REPORT AND FIGURES

MORRO BAY REVETMENT SEAWALL SURVEY



SHEET INDEX:

SHEET 1	- PROJECT INFORMATION
SHEET 2	- PROFILES - RVT-01 - 0+00 1+00 2+00
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SHEET 4	- PROFILES - RVT-01 - 6+00 7+00 7+40.22
SHEET 5	- PROFILES - RVT-02 - 0+00 1+00 2+00 3+00
SHEET 6	- PROFILES - RVT-02 - 4+00 5+00 6+00 7+00
SHEET 7	- PROFILES - RVT-02 - 8+00 9+00 10+00 11+00
SHEET 8	- PROFILES - RVT-02 - 12+00 13+00 14+00 15+00
SHEET 9	- PROFILES - RVT-02 - 16+00 17+00 18+00
SHEET 10	- PROFILES - RVT-02 - 19+00 20+00 21+00
SHEET 11	- PROFILES - RVT-02 - 22+00 23+00 24+00 24+14.39
SHEET 12	- PROFILES - RVT-03 - 0+00 1+00 1+35.83
SHEET 13	- PROFILES - SW-01 - 0+00 0+86.64
SHEET 14	- PROFILES - RVT-04 - 0+00 1+00 2+00 3+00
SHEET 15	- PROFILES - RVT-04 - 4+00 5+00 5+18.35
SHEET 16	- PROFILES - RVT-05 - 0+00 1+00 2+00 2+23.45
SHEET 17	- PROFILES - RVT-06 - 0+00 0+49.10; RVT-07 - 0+00 0+56.22
SHEET 18	- PROFILES - RVT-08 - 0+00 0+67.78; RVT-09 - 0+00 0+92.52
SHEET 19	- PROFILES - RVT-10 - 0+00 0+81.34; RVT-11 - 0+00 0+51.44
SHEET 20	- PROFILES - RVT-12 - 0+00 1+00 2+00
SHEET 21	- PROFILES - RVT-12 - 3+00 4+00 5+00
SHEET 22	- PROFILES - RVT-12 - 6+00 7+00 8+00
SHEET 23	- PROFILES - RVT-12 - 9+00 10+00 11+00
SHEET 24	- PROFILES - RVT-12 - 12+00 13+00 14+00
SHEET 25	- PROFILES - RVT-12 - 15+00 16+00 17+00
SHEET 26	- PROFILES - RVT-12 - 18+00 18+10.14
SHEET 27	- PROFILES - SW-02 - 0+00 0+83.61
SHEET 28	- PROFILES - SW-03 - 0+00 1+00 1+72.66
SHEET 29	- SLOPE CALCULATED TABLE

GENERAL NOTES:

- MULTIBEAM SURVEY DATA WAS COLLECTED ON MAY 21, 2024 AND MAY 23, 2024
- LIDAR DATA WAS COLLECTED ON MAY 22, 2024 AND MAY 23, 2024
- HORIZONTAL DATUM/PROJECTION: STATE PLANE, CALIFORNIA ZONE 5, NAD83, (2011)(2010.00), FEET
- HORIZONTAL CONTROL: NOAA CORS "P523", 2309259.749N, 5708342.524E
- VERTICAL DATUM: NAVD88, FT (GEOID 12B)
- VERTICAL CONTROL: NOAA CORS "P523" 137.713 FEET
- SOUNDINGS WERE COLLECTED USING AN R2SONIC 2024 MULTIBEAM ECHOSOUNDER OPERATING AT 400 KHZ ON S/V EKKO AND AN R2SONIC 2020 MULTIBEAM ECHOSOUNDER OPERATING AT 400 KHZ ON S/V MARY ROSE
- LIDAR DATA WAS COLLECTED USING A PHOENIX MINI-RANGER 3 LITE
- SOUND VELOCITY THROUGH THE WATER COLUMN WAS DETERMINED WITH AN AML BASE X3 SOUND VELOCITY PROBE
- POSITIONING AND VESSEL ORIENTATION WERE MEASURED USING AN APPLANIX POSMV WAVEMASTER V5 SYSTEM ON S/V EKKO AND A TRIMBLE MPS 500 ON S/V MARY ROSE
- SURVEY WAS CONDUCTED FROM S/V EKKO AND S/V MARY ROSE
- THIS SURVEY INDICATES GENERAL CONDITIONS AT THE TIME OF THE SURVEY

SCALE: 1" = 1200'

 IF SHEET IS LESS THAN 11"x17"
 IT IS A REDUCED PRINT,
 SCALE ACCORDINGLY

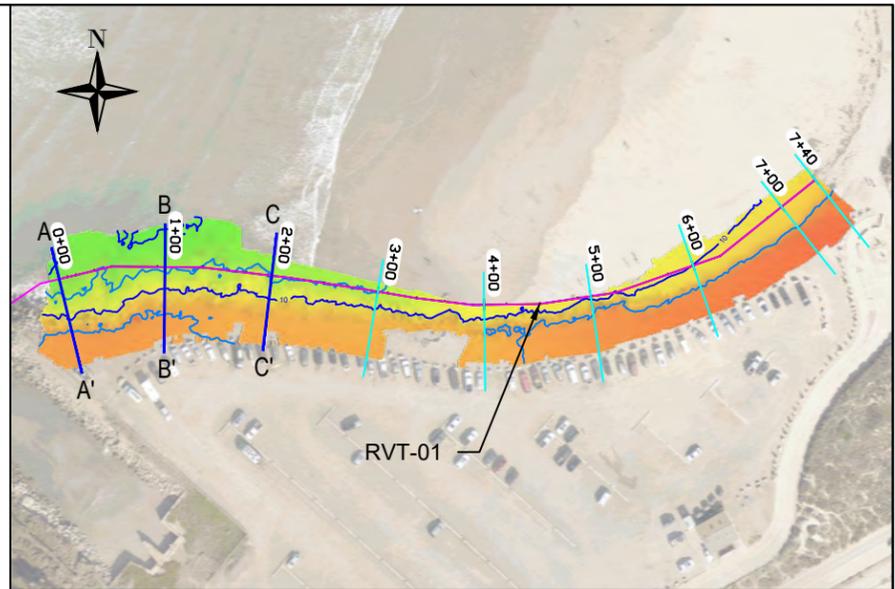
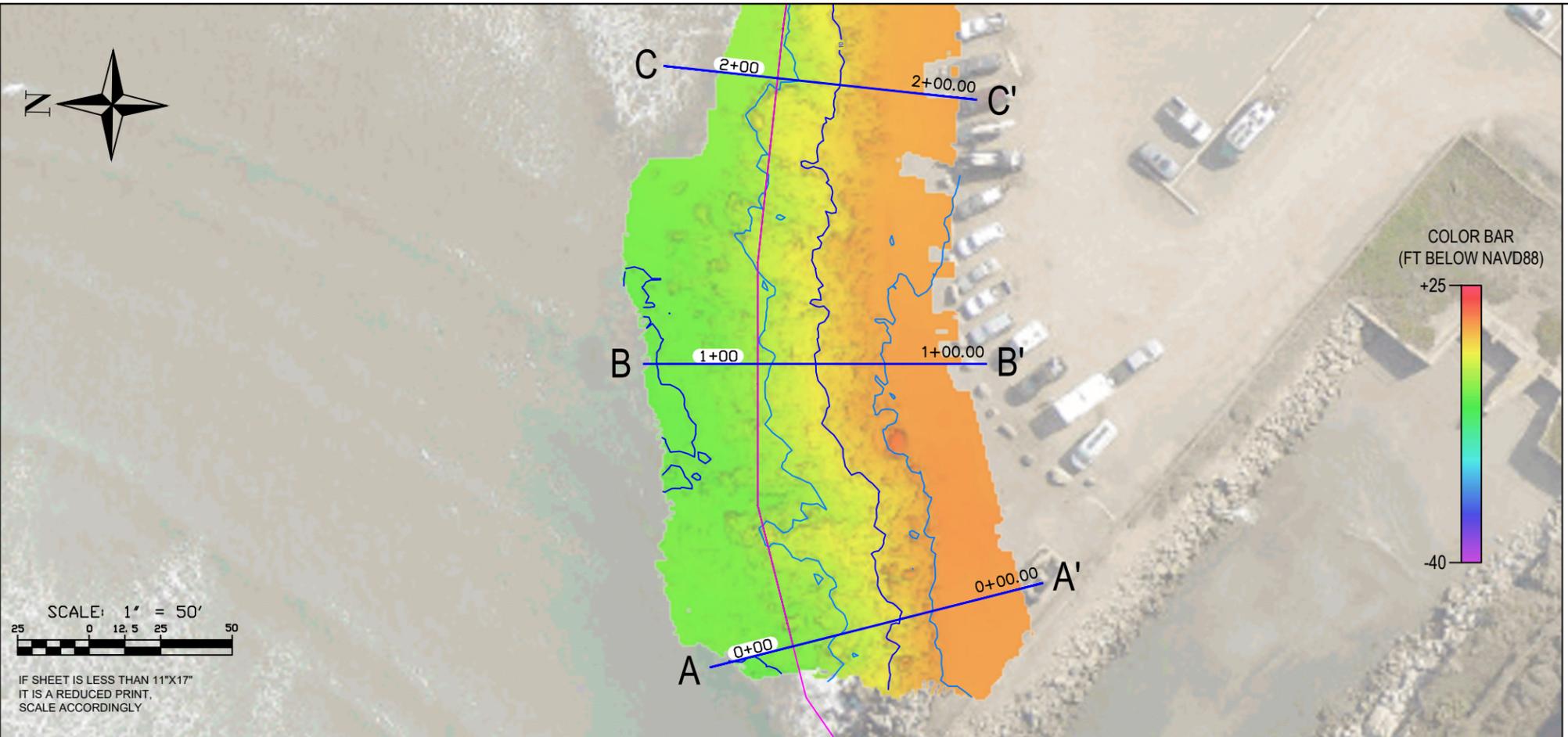
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 STE 375,
 San Diego, CA 92131
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 637 LINDARO STREET
 SUITE 100
 SAN RAFAEL, CA 94901
 415.462.0421
 ETRACINC.COM

SURVEY DATE: May 21 & 23, 2024
 PLOT DATE: September 13, 2024
 DESIGNED BY: JG
 CHECKED BY: KJ
 REVISION #
 FILE NAME: RBRA Morro Bay.dwg

MORRO BAY REVETMENT SEAWALL SURVEY
 MORRO BAY, CA
PROJECT INFORMATION

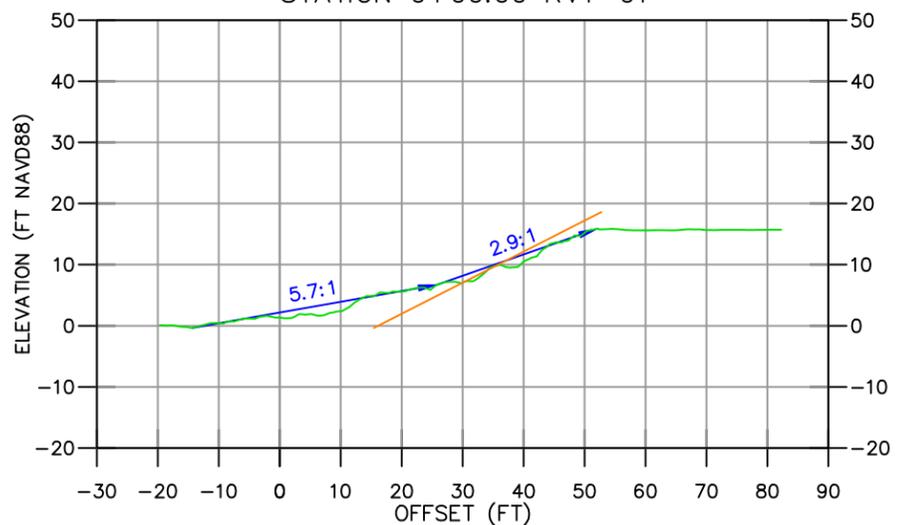
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S1



PROFILE RVT-01	EASTING	NORTHING	PROFILE NUMBER
A Start	5,707,119.93	2,333,713.69	0+00
A' End	5,707,147.96	2,333,597.01	
B Start	5,707,225.98	2,333,735.77	1+00
B' End	5,707,224.63	2,333,615.78	
C Start	5,707,329.83	2,333,727.41	2+00
C' End	5,707,316.75	2,333,618.19	

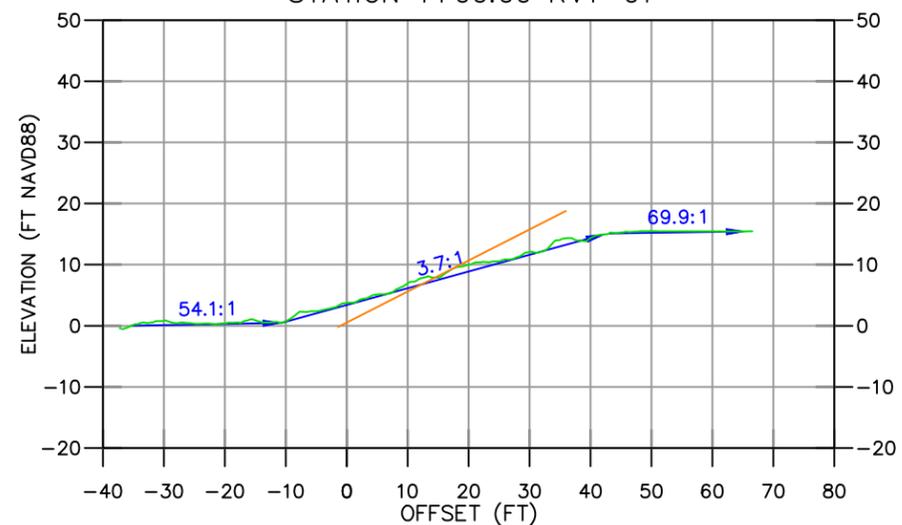
A-A'

STATION 0+00.00 RVT-01



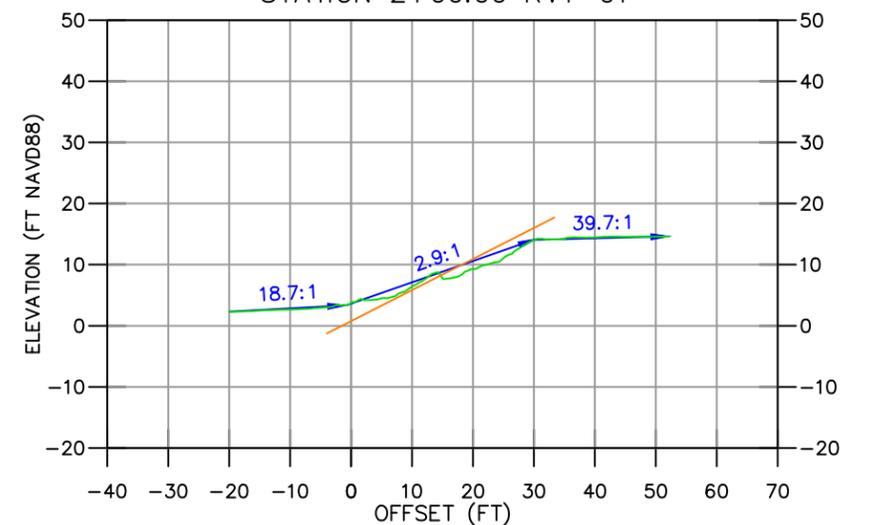
B-B'

STATION 1+00.00 RVT-01



C-C'

STATION 2+00.00 RVT-01



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 30'

LEGEND					
	MBES AND LIDAR DATA		SLOPE 2:1		SLOPE CALCULATED

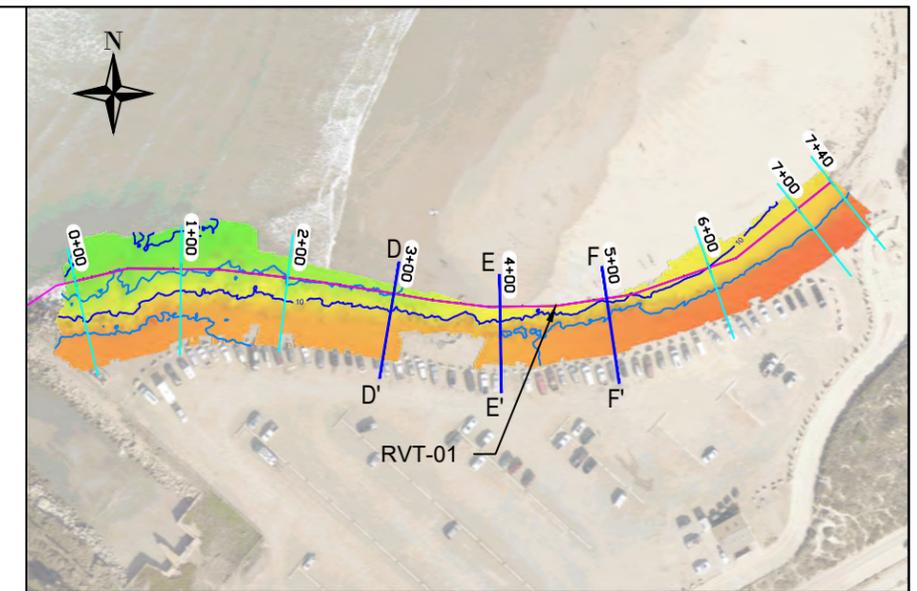
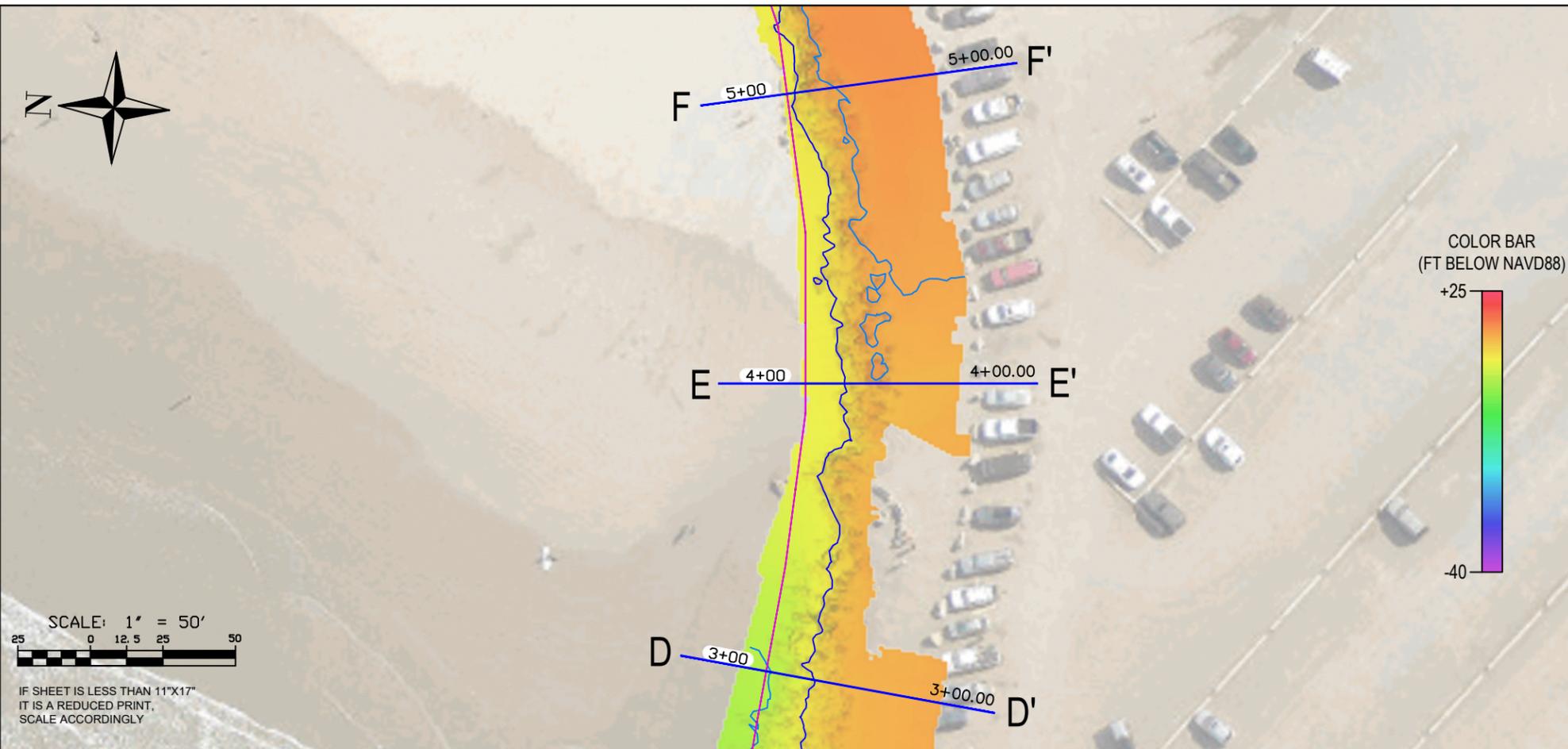
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SUITE 100
SAN RAFAEL, CA 94901
415.462.0421
ETRACINC.COM

SURVEY DATE: May 21 & 23, 2024
DESIGNED BY: JG
REVISION #
FILE NAME: RBRA Morro Bay.dwg
PLOT DATE: September 13, 2024
CHECKED BY: KJ

**MORRO BAY REVETMENT SEAWALL
SURVEY
MORRO BAY, CA
PROFILES**

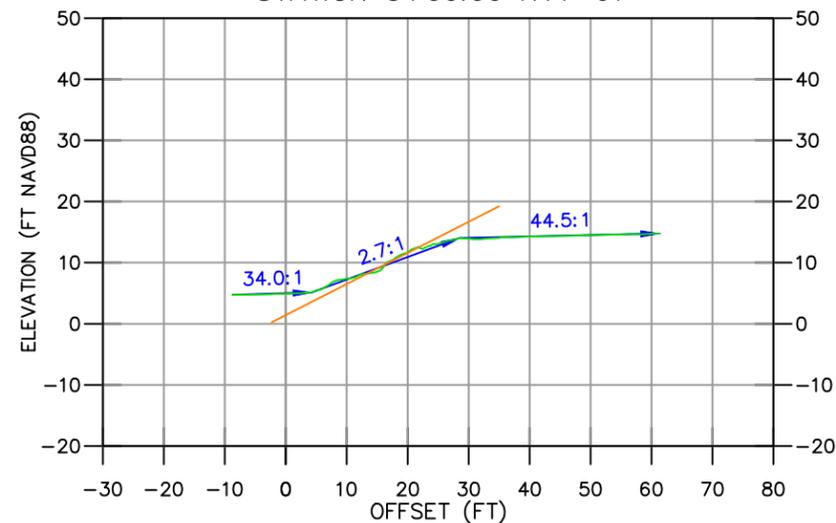
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S2



PROFILE RVT-01	EASTING	NORTHING	PROFILE NUMBER
D Start	5,707,428.96	2,333,702.48	3+00
D' End	5,707,410.63	2,333,594.01	
E Start	5,707,522.67	2,333,690.71	4+00
E' End	5,707,524.18	2,333,580.72	
F Start	5,707,618.18	2,333,698.14	5+00
F' End	5,707,634.25	2,333,589.32	

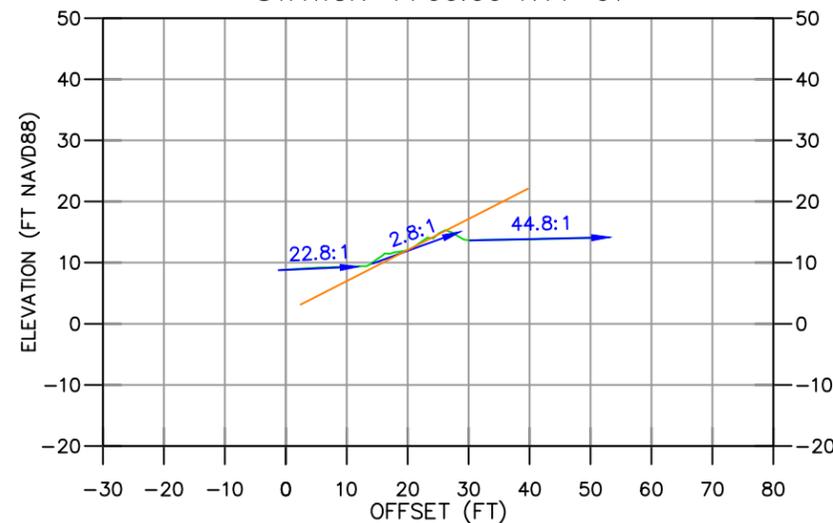
D-D'

STATION 3+00.00 RVT-01



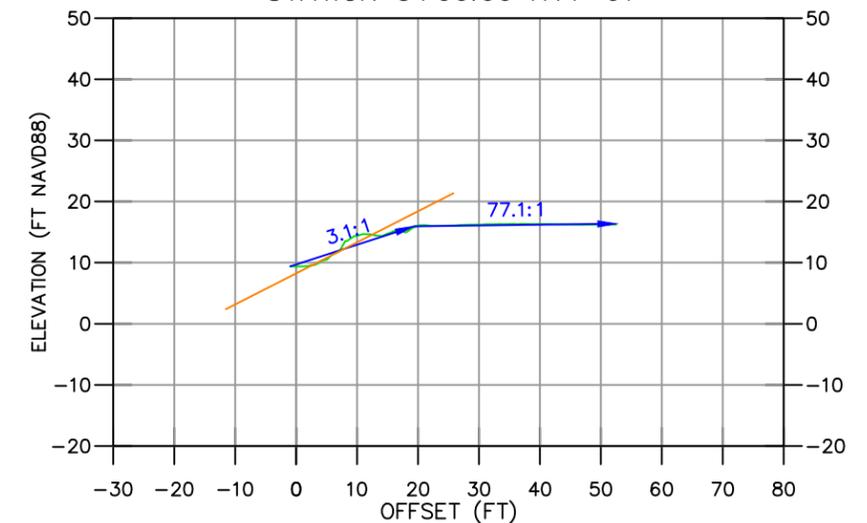
E-E'

STATION 4+00.00 RVT-01



F-F'

STATION 5+00.00 RVT-01



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 30'

LEGEND					
	MBES AND LIDAR DATA		SLOPE 2:1		SLOPE CALCULATED

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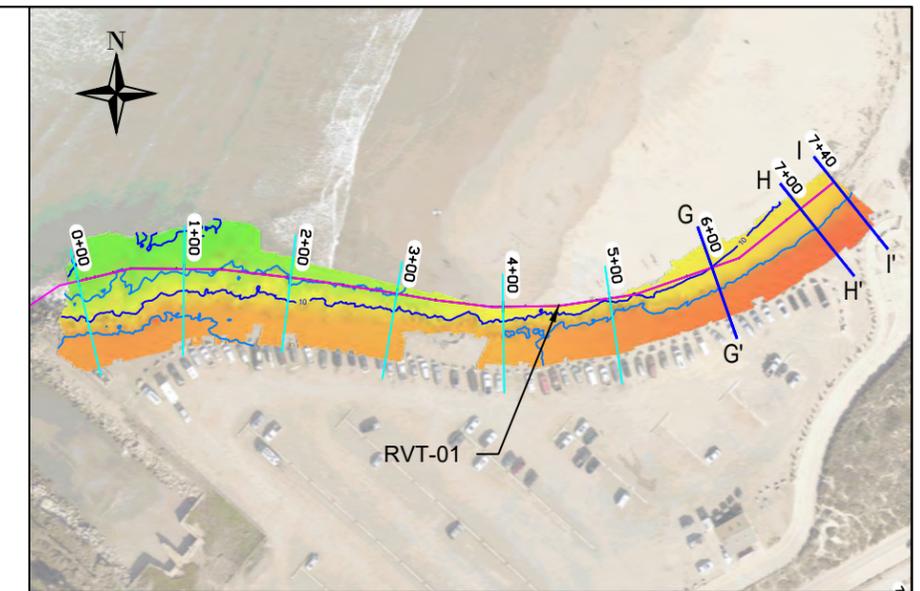
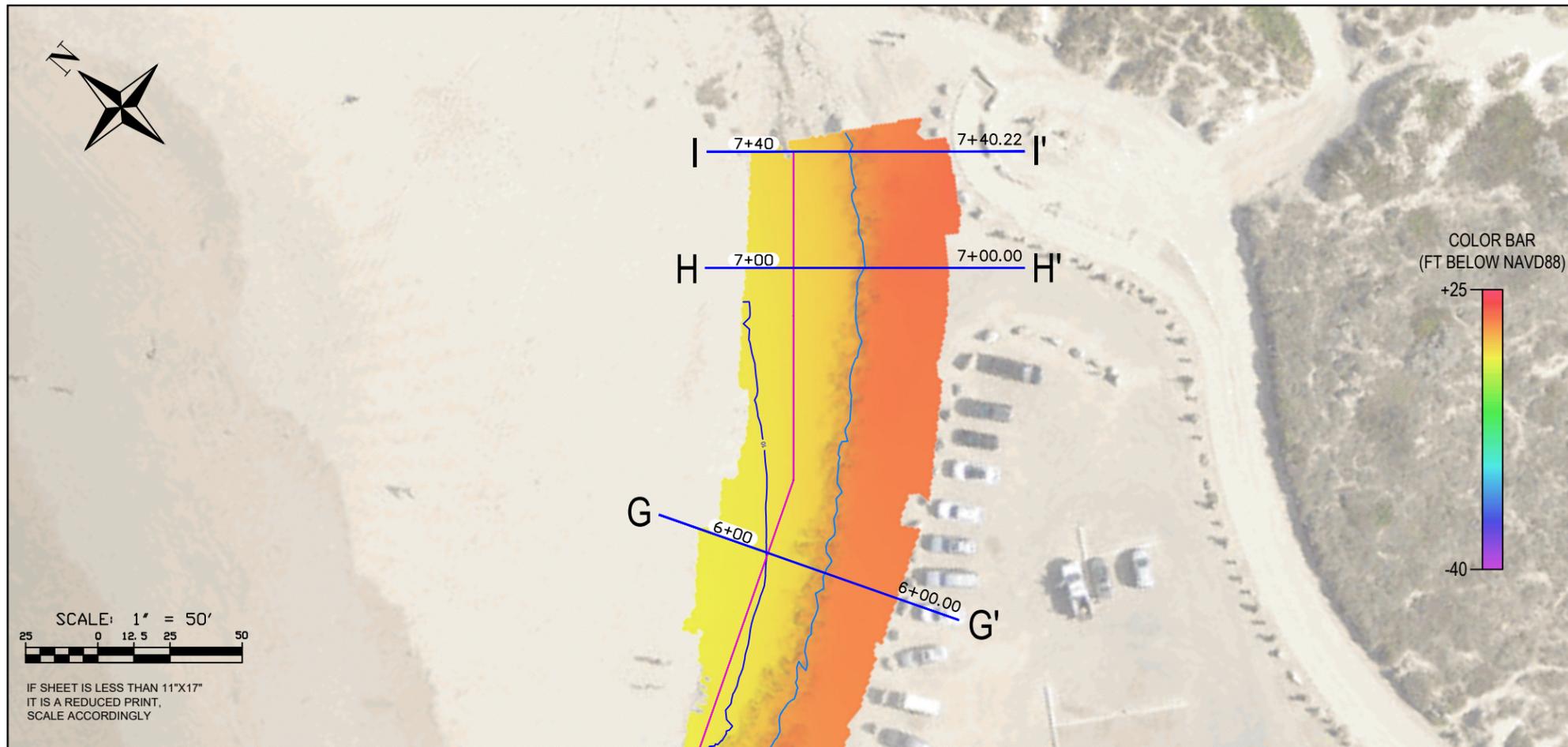
PLOT DATE:
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MORRO BAY REVETMENT SEAWALL
SURVEY
MORRO BAY, CA

PROFILES

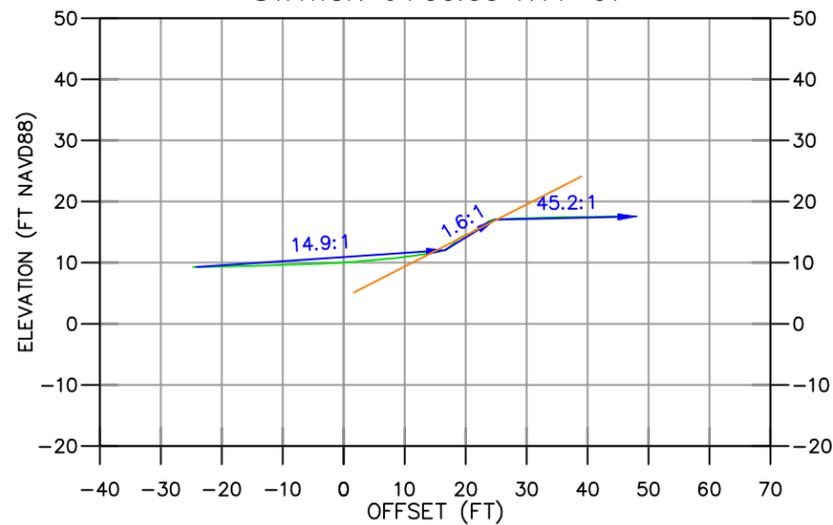
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Number:
S3



PROFILE RVT-01	EASTING	NORTHING	PROFILE NUMBER
G Start	5,707,704.79	2,333,734.93	6+00
G' End	5,707,741.14	2,333,631.11	
H Start	5,707,781.73	2,333,775.19	7+00
H' End	5,707,850.42	2,333,689.28	
I Start	5,707,813.15	2,333,800.31	7+40.22
I' End	5,707,881.83	2,333,714.39	

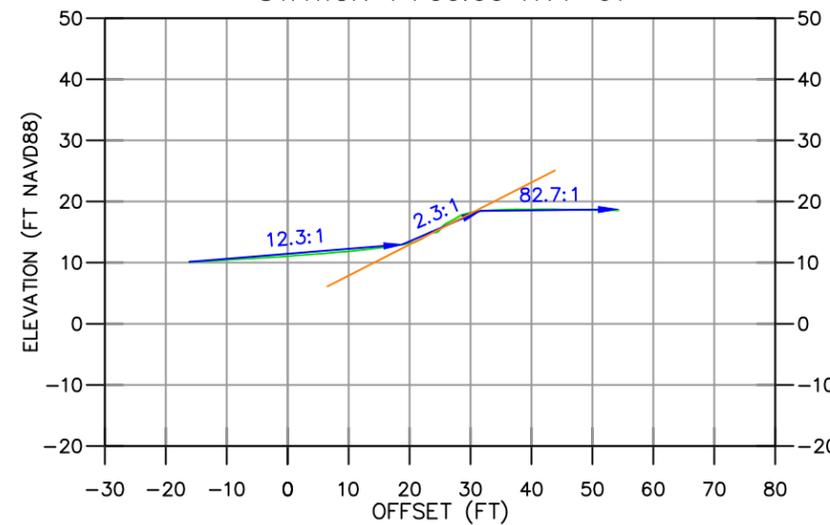
G-G'

STATION 6+00.00 RVT-01



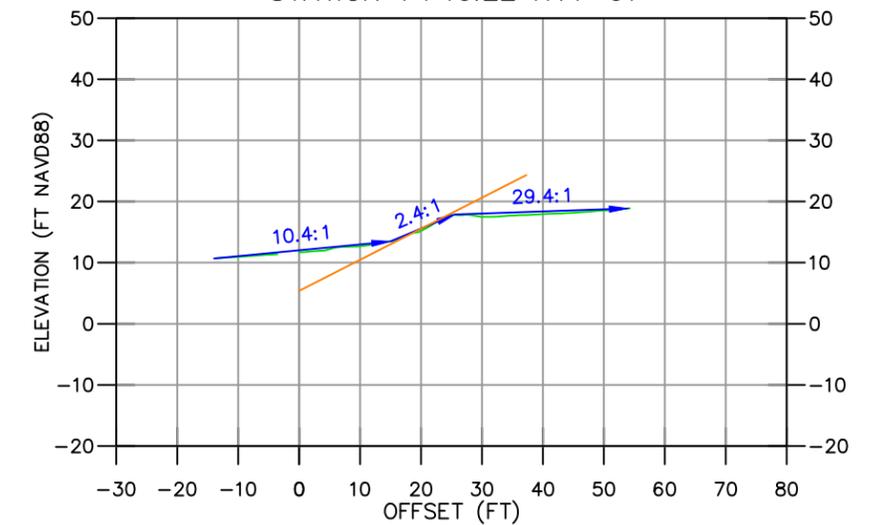
H-H'

STATION 7+00.00 RVT-01



I-I'

STATION 7+40.22 RVT-01



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 30'

LEGEND		
	MBES AND LIDAR DATA	
	SLOPE 2:1	
		SLOPE CALCULATED

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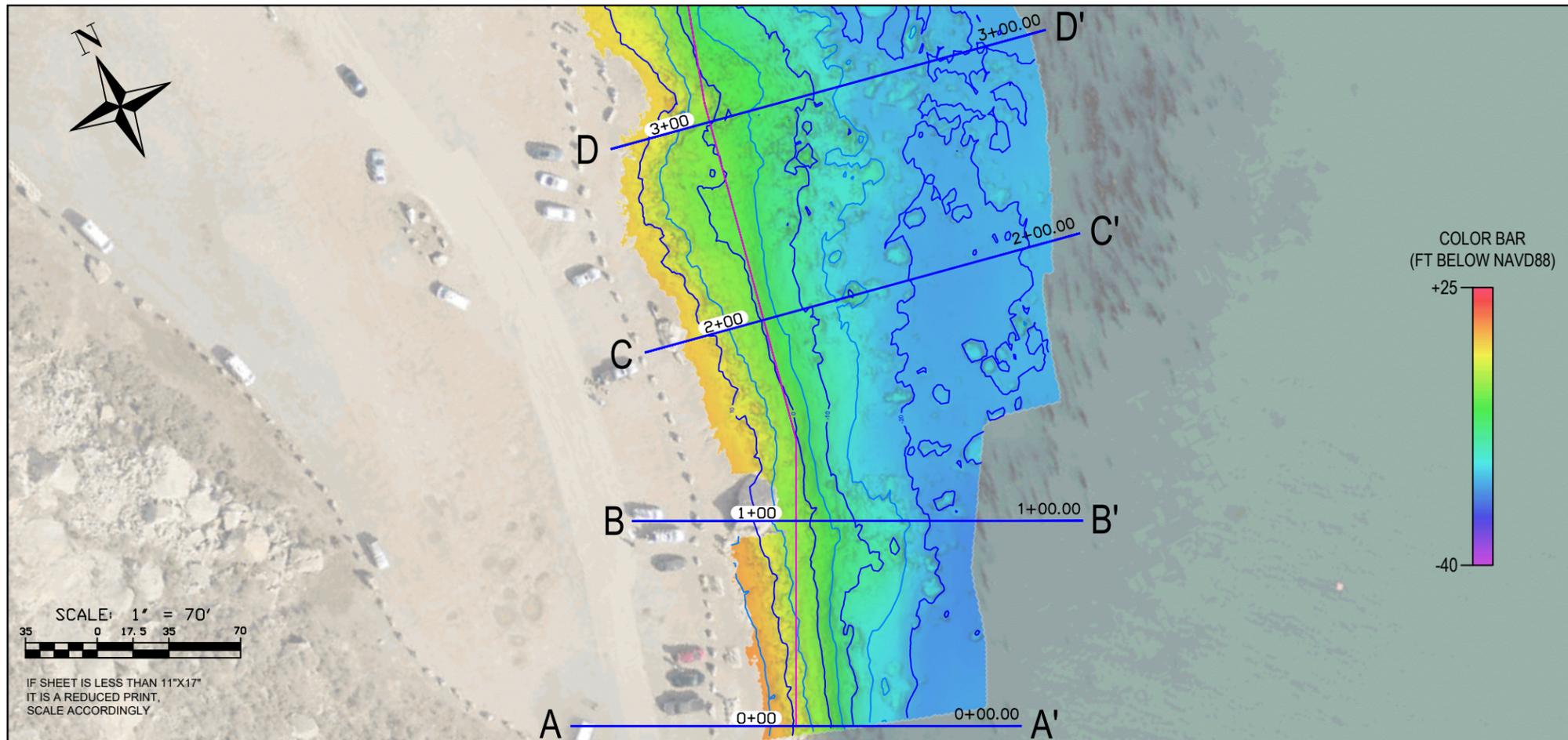
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SURVEY DATE:
May 21 & 23, 2024
DESIGNED BY: JG
REVISION #
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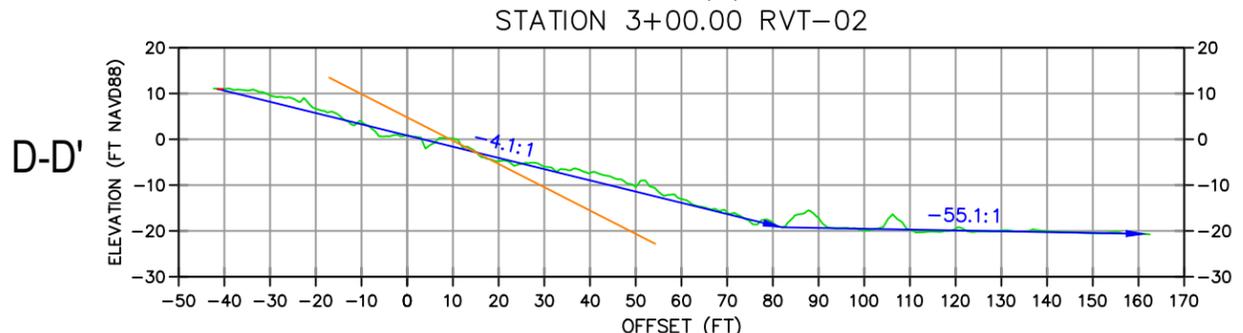
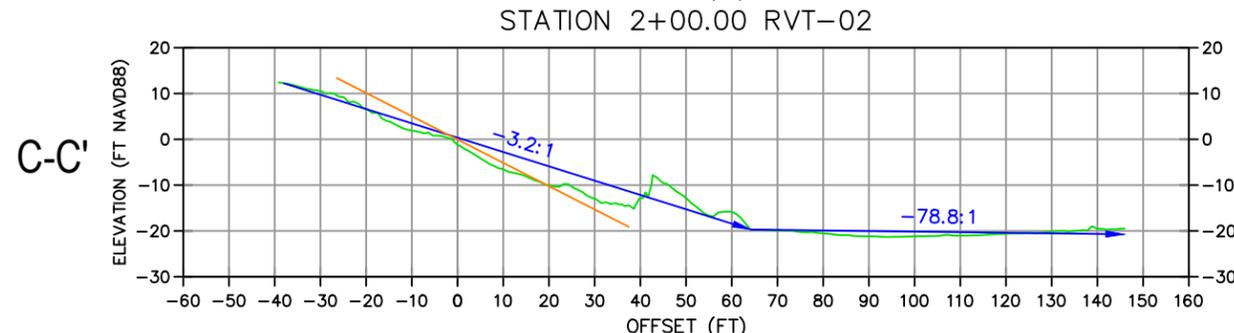
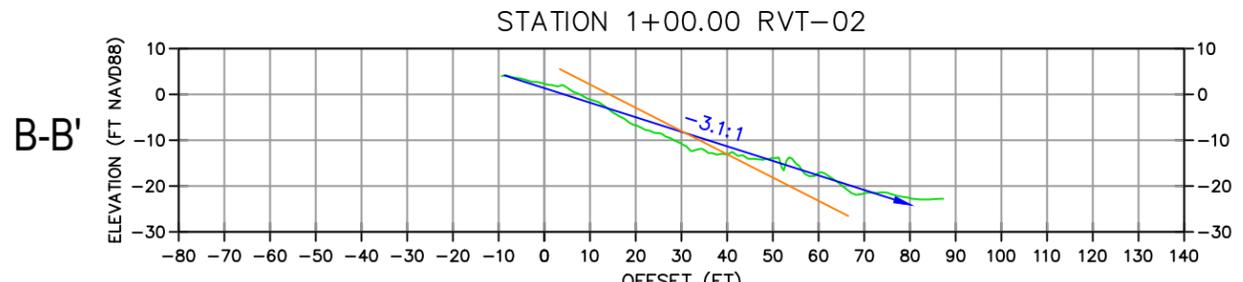
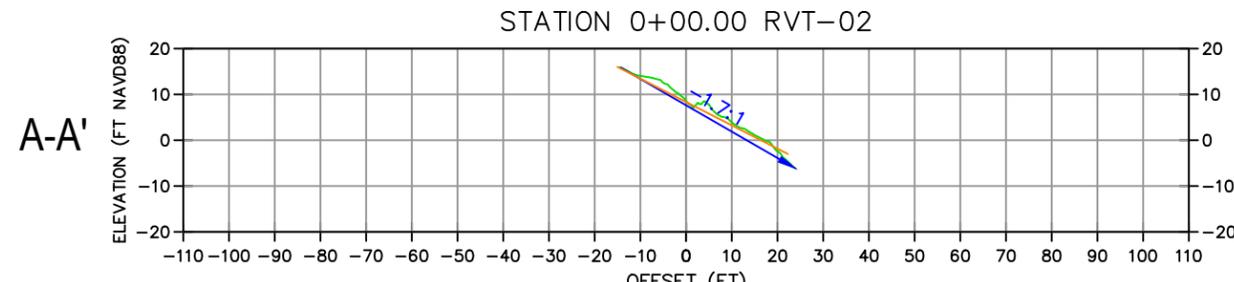
PLOT DATE:
September 13, 2024
CHECKED BY: KJ

MORRO BAY REVETMENT SEAWALL
SURVEY
MORRO BAY, CA
PROFILES

Reference
Number:
S4



PROFILE RVT-02	EASTING	NORTHING	PROFILE NUMBER
A Start	5,707,592.31	2,332,750.97	0+00
A' End	5,707,787.78	2,332,650.02	
B Start	5,707,664.85	2,332,826.06	1+00
B' End	5,707,860.32	2,332,725.11	
C Start	5,707,708.07	2,332,896.09	2+00
C' End	5,707,923.24	2,332,850.23	
D Start	5,707,738.70	2,332,991.81	3+00
D' End	5,707,953.87	2,332,945.95	



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 40'

LEGEND			
	MBES AND LIDAR DATA		INTERPOLATED SURFACE
	SLOPE 2:1		SLOPE CALCULATED

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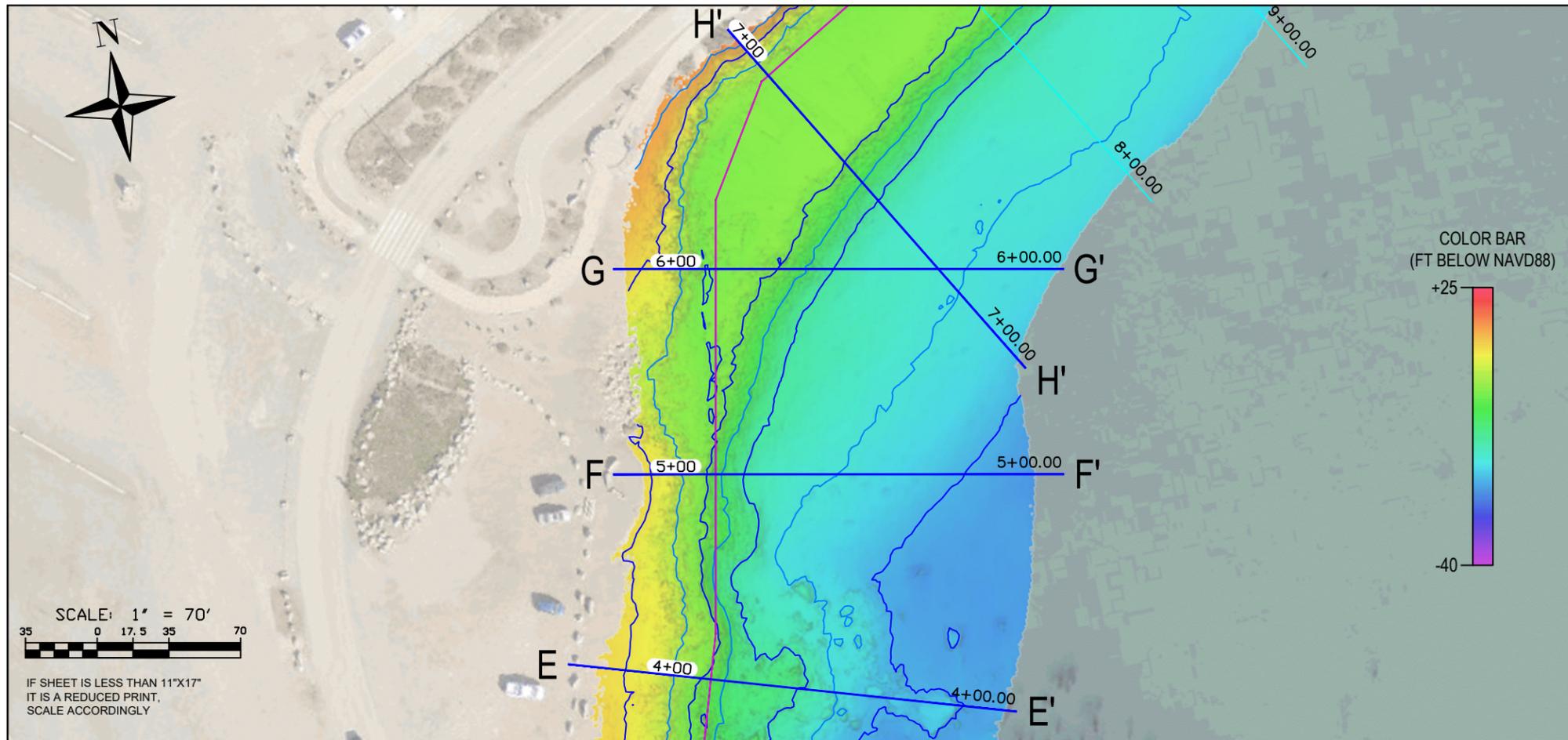
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637 LINDARO STREET
SUITE 100
SAN RAFAEL, CA 94901
415.462.0421
ETRACINC.COM

SURVEY DATE: May 21 & 23, 2024	PLOT DATE: September 13, 2024
DESIGNED BY: JG	CHECKED BY: KJ
REVISION #	
FILE NAME: RBRA Morro Bay.dwg	

**MORRO BAY REVETMENT SEAWALL
SURVEY
MORRO BAY, CA**

PROFILES

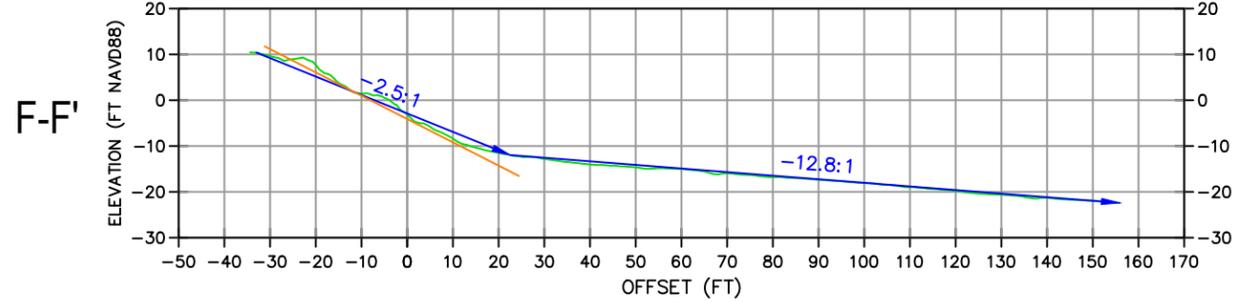
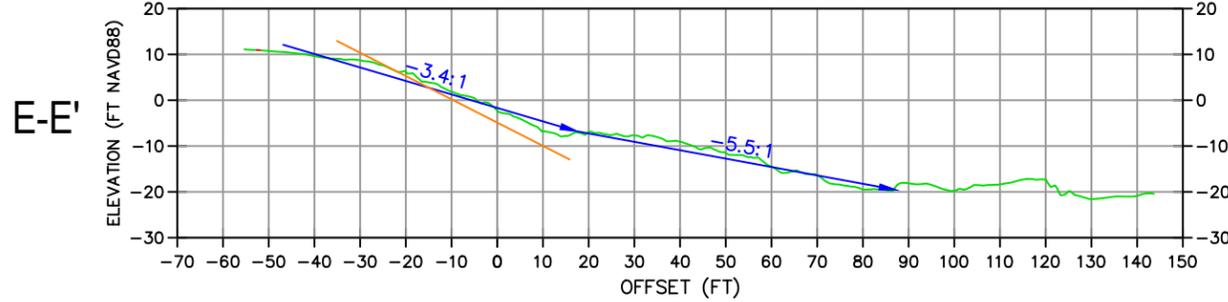
Reference
Number:
S5



PROFILE RVT-02	EASTING	NORTHING	PROFILE NUMBER
E Start	5,707,750.53	2,333,098.23	4+00
E' End	5,707,960.03	2,333,031.07	
F Start	5,707,790.86	2,333,184.35	5+00
F' End	5,708,006.26	2,333,139.56	
G Start	5,707,811.23	2,333,282.26	6+00
G' End	5,708,026.62	2,333,237.46	
H Start	5,707,889.77	2,333,385.23	7+00
H' End	5,707,998.45	2,333,193.95	

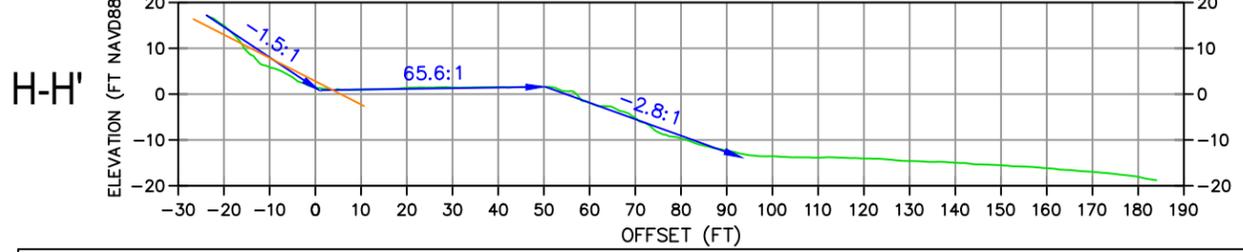
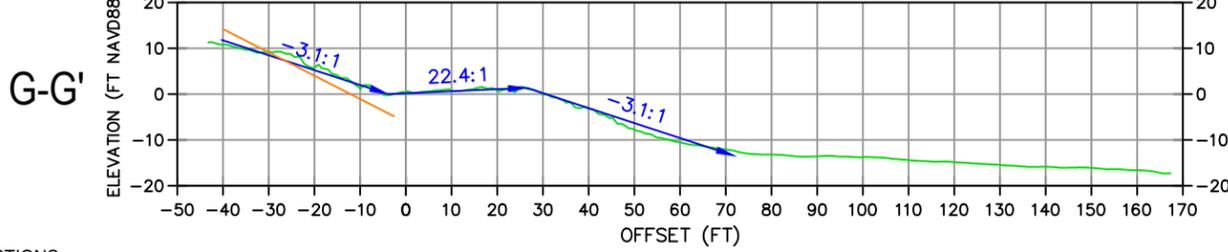
STATION 4+00.00 RVT-02

STATION 5+00.00 RVT-02



STATION 6+00.00 RVT-02

STATION 7+00.00 RVT-02



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 40'

LEGEND			
	MBES AND LIDAR DATA		INTERPOLATED SURFACE
	SLOPE 2:1		SLOPE CALCULATED

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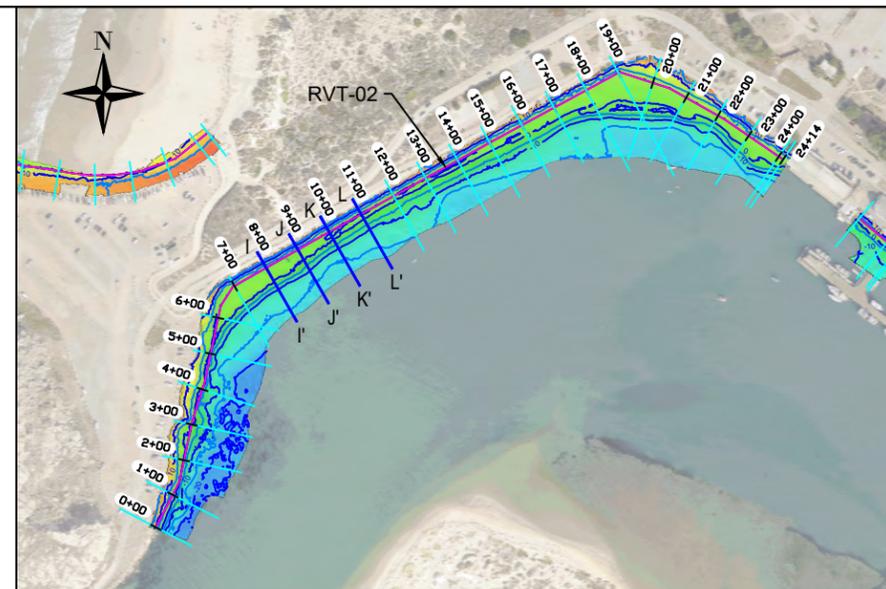
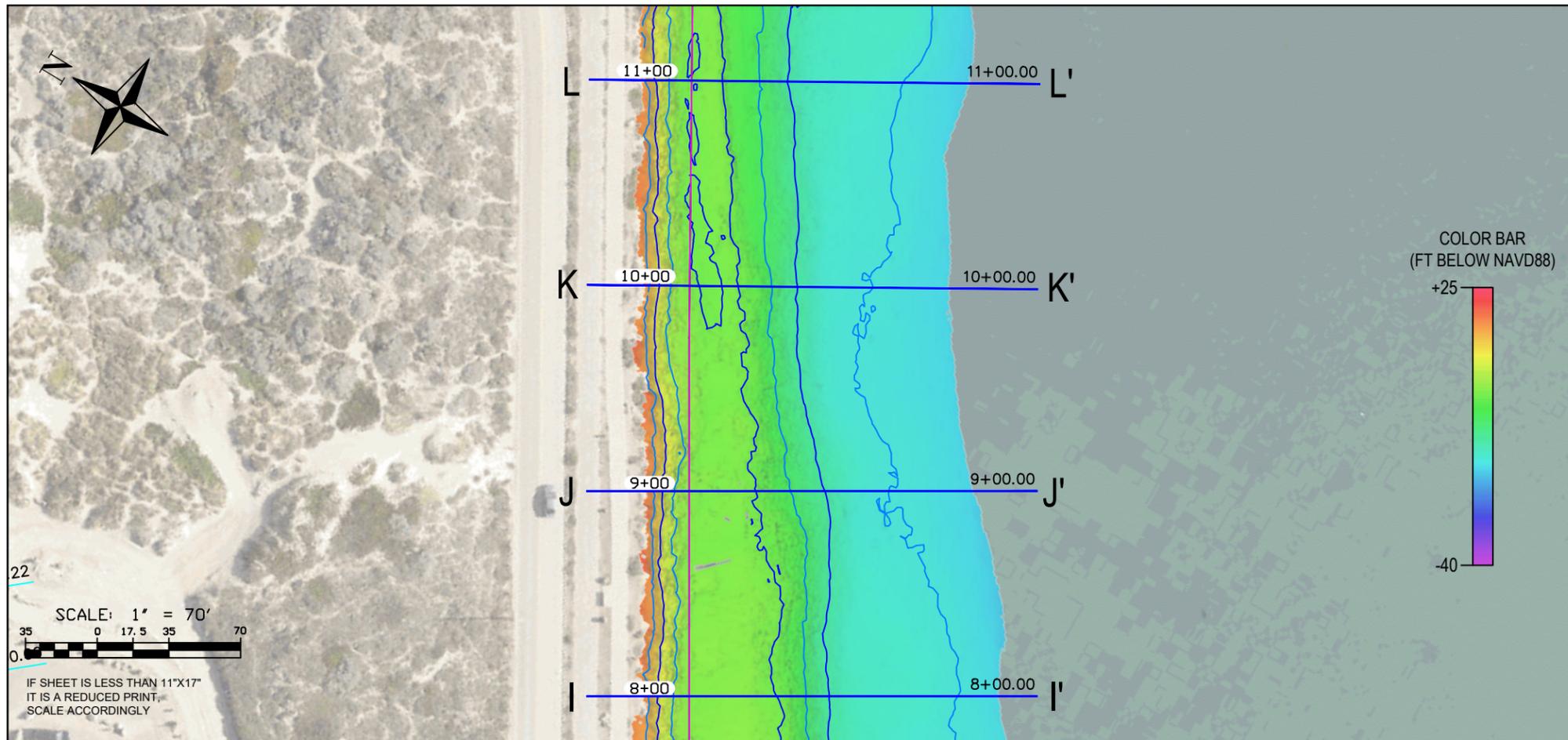
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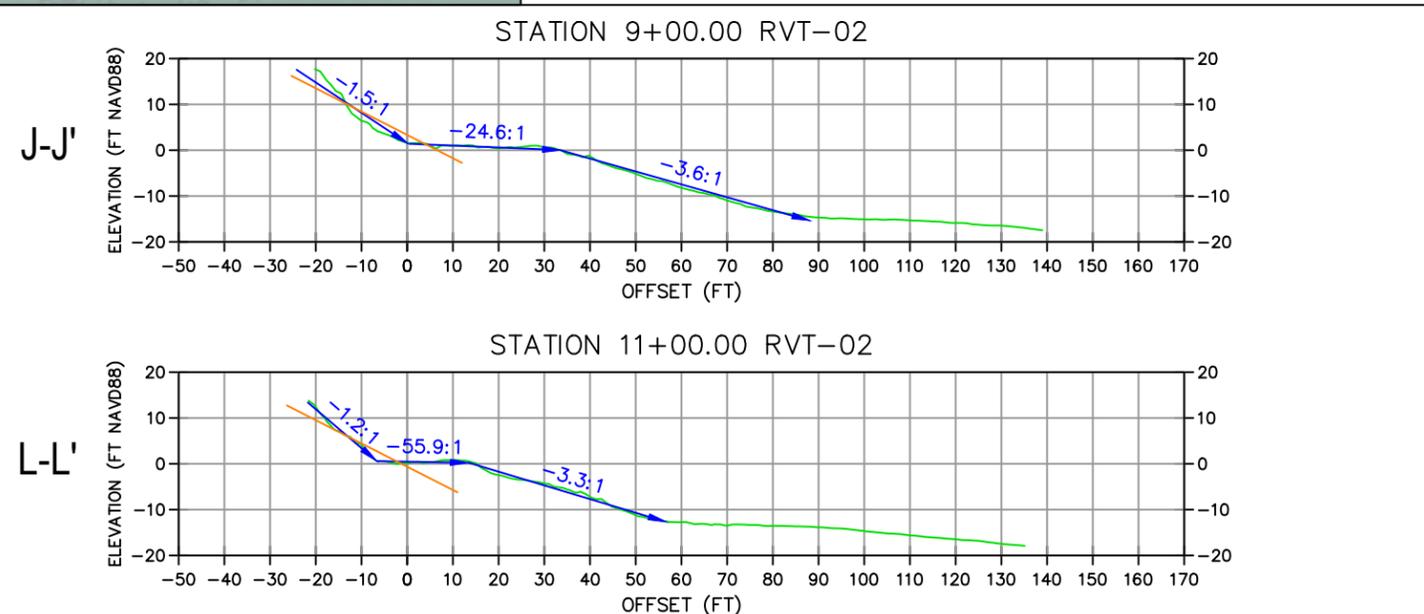
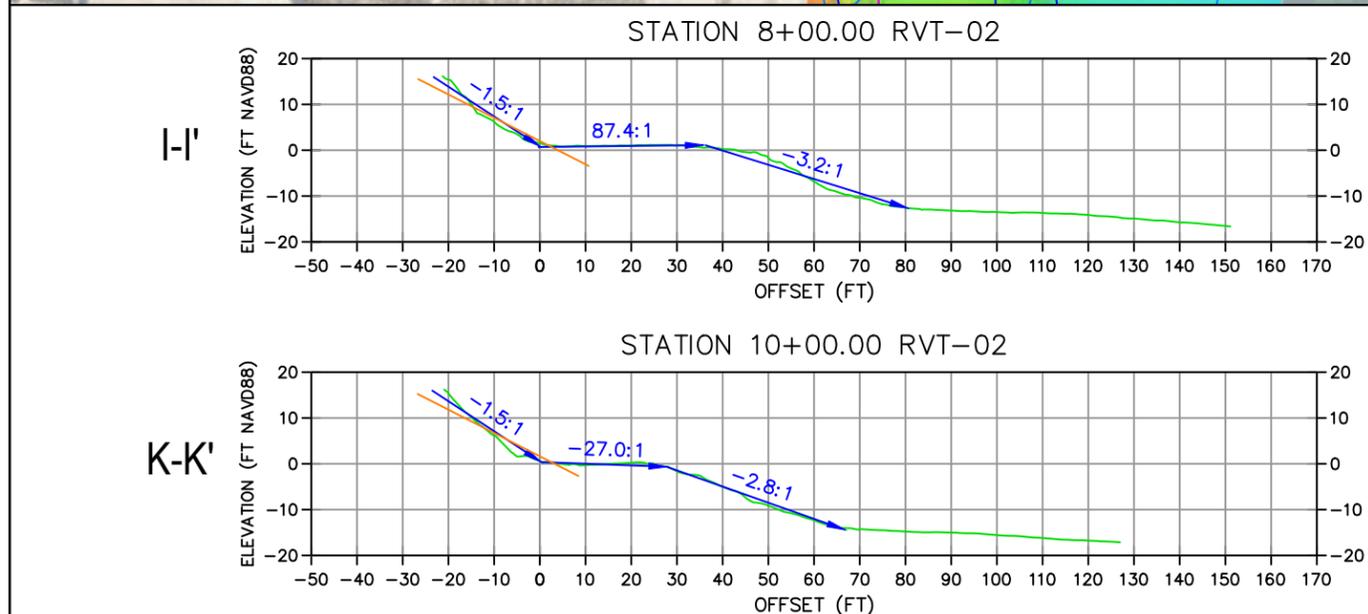
**MORRO BAY REVETMENT SEAWALL
SURVEY
MORRO BAY, CA**

PROFILES

Reference
Number:
S6



PROFILE RVT-02	EASTING	NORTHING	PROFILE NUMBER
I Start	5,707,966.83	2,333,452.02	8+00
I End	5,708,075.52	2,333,260.74	
J Start	5,708,053.78	2,333,501.42	9+00
J End	5,708,162.46	2,333,310.14	
K Start	5,708,141.30	2,333,550.85	10+00
K End	5,708,248.02	2,333,358.47	
L Start	5,708,228.74	2,333,599.36	11+00
L End	5,708,335.47	2,333,406.98	



CROSS SECTIONS:
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 40'

LEGEND		
	MBES AND LIDAR DATA	
	SLOPE 2:1	
		SLOPE CALCULATED

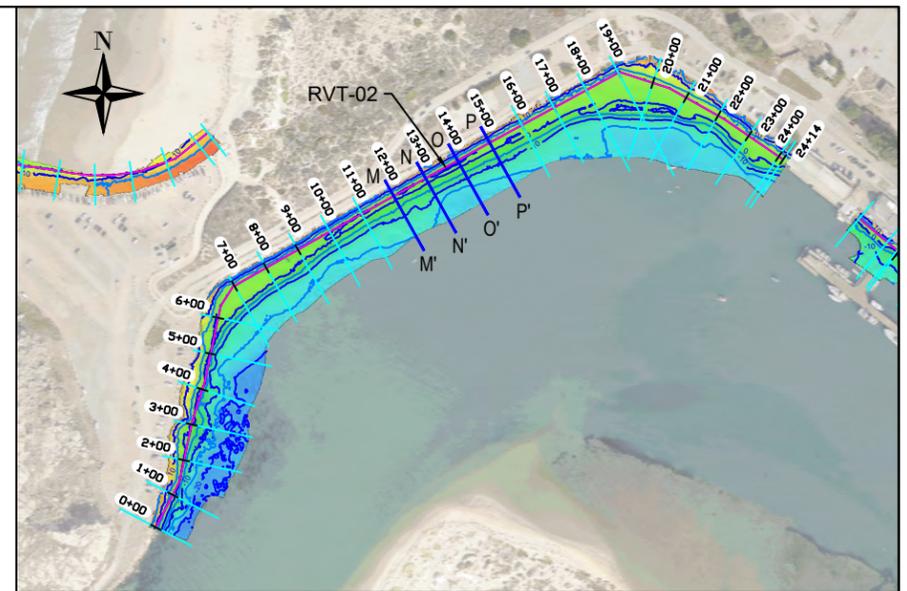
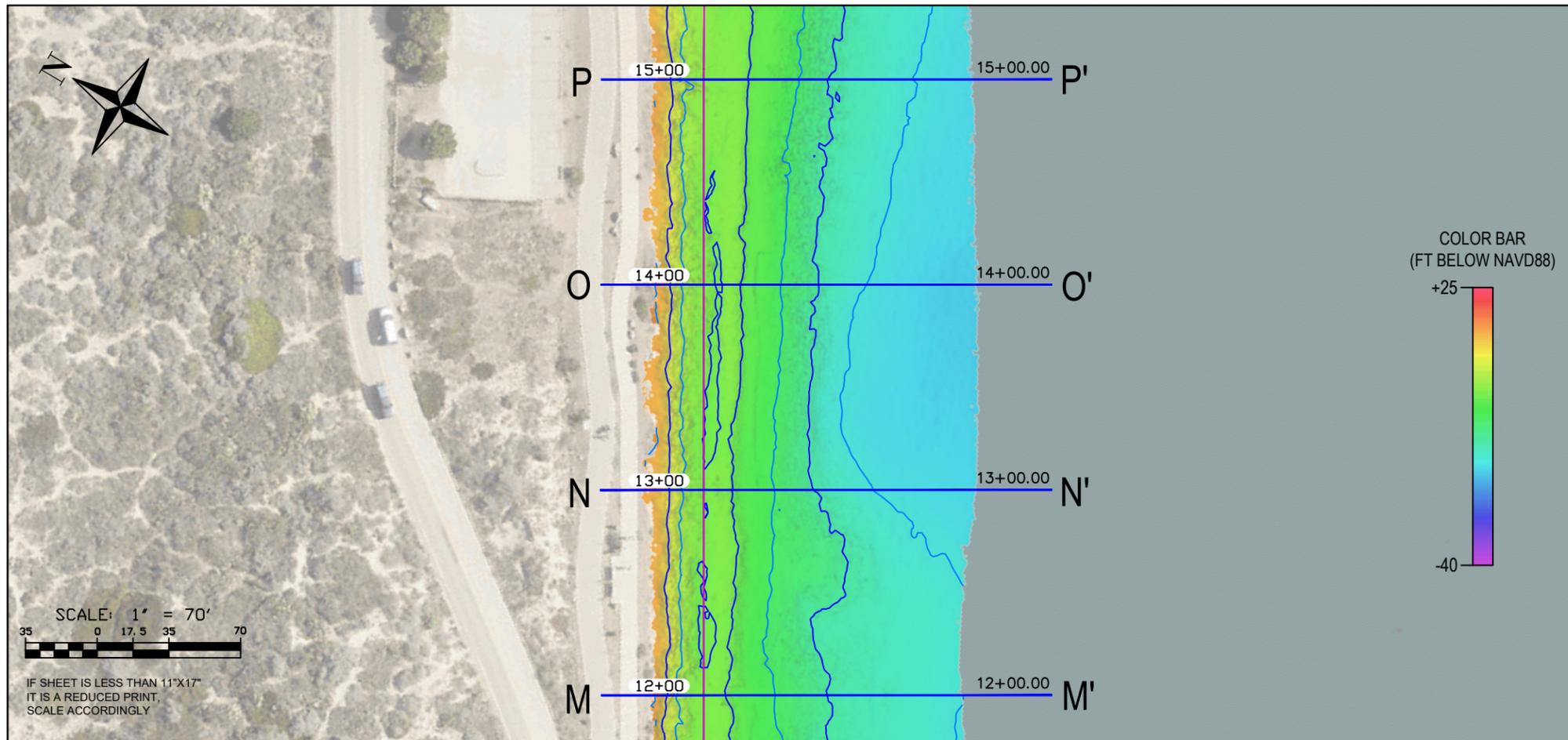
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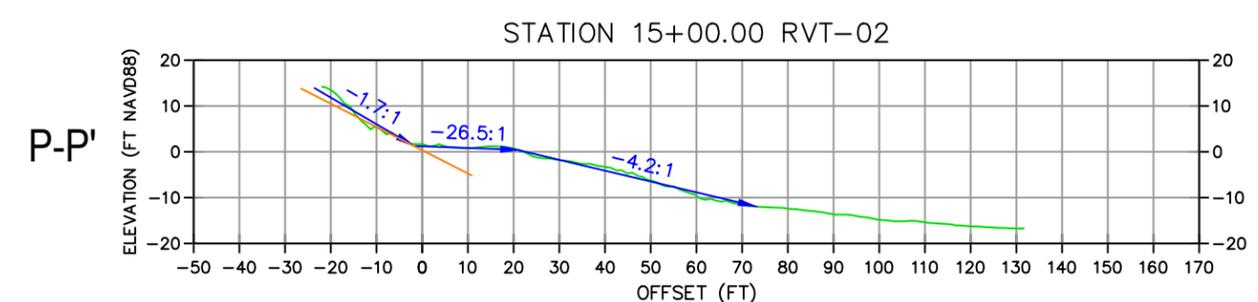
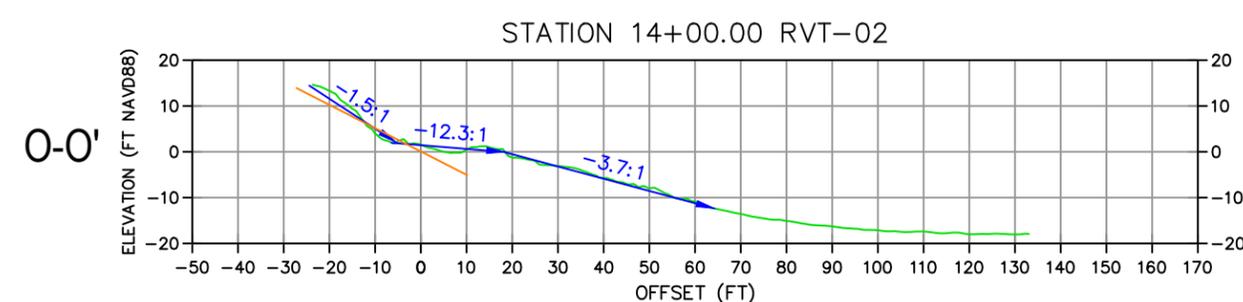
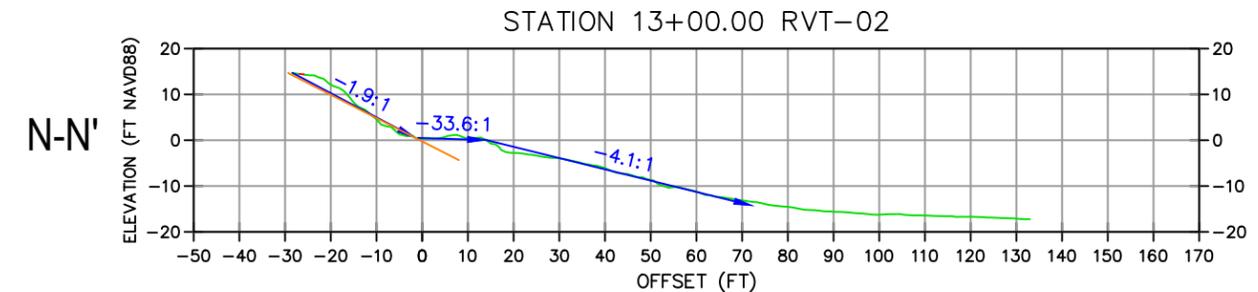
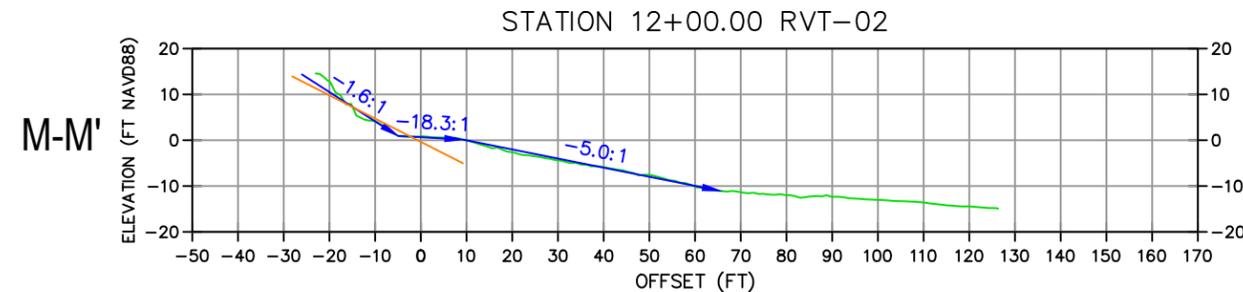
SURVEY DATE:
 May 21 & 23, 2024
 PLOT DATE:
 September 13, 2024
 DESIGNED BY: JG
 CHECKED BY: KJ
 REVISION #
 FILE NAME:
 RBRA Morro Bay.dwg

**MORRO BAY REVETMENT SEAWALL
 SURVEY
 MORRO BAY, CA
 PROFILES**

Reference
 Number:
S7



PROFILE RVT-02	EASTING	NORTHING	PROFILE NUMBER
M Start	5,708,316.18	2,333,647.87	12+00
M' End	5,708,422.91	2,333,455.50	
N Start	5,708,403.63	2,333,696.39	13+00
N' End	5,708,510.36	2,333,504.01	
O Start	5,708,491.07	2,333,744.90	14+00
O' End	5,708,597.80	2,333,552.52	
P Start	5,708,578.52	2,333,793.41	15+00
P' End	5,708,685.25	2,333,601.04	



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 40'

LEGEND			
	MBES AND LIDAR DATA		INTERPOLATED SURFACE
	SLOPE 2:1		SLOPE CALCULATED

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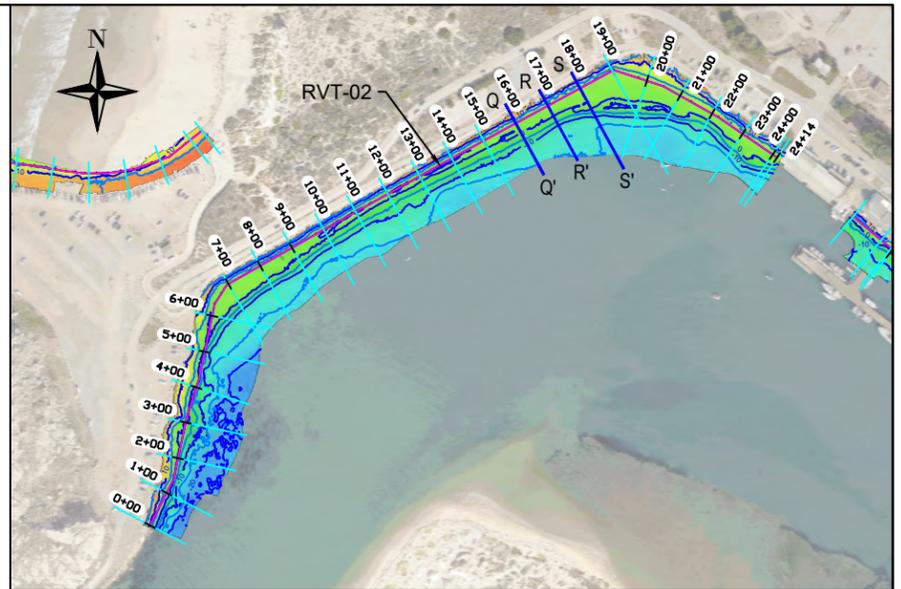
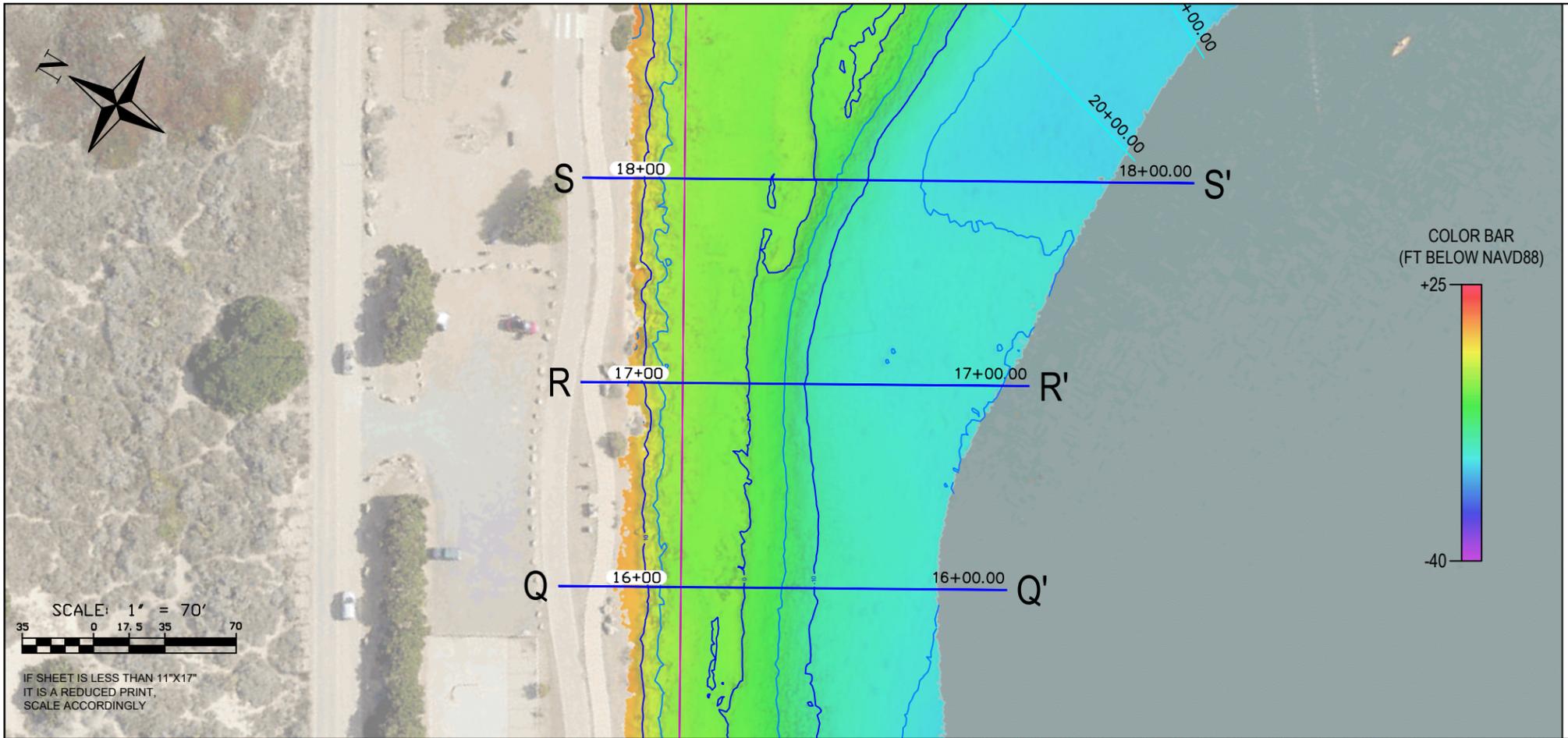
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SUITE 100
SAN RAFAEL, CA 94901
415.462.0421
ETRACINC.COM

SURVEY DATE: May 21 & 23, 2024	PLOT DATE: September 13, 2024
DESIGNED BY: JG	CHECKED BY: KJ
REVISION #	
FILE NAME: RBRA Morro Bay.dwg	

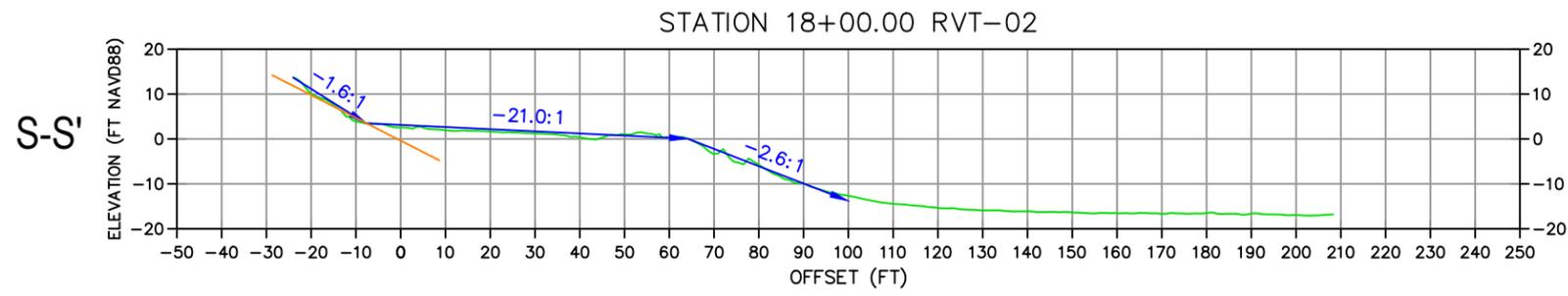
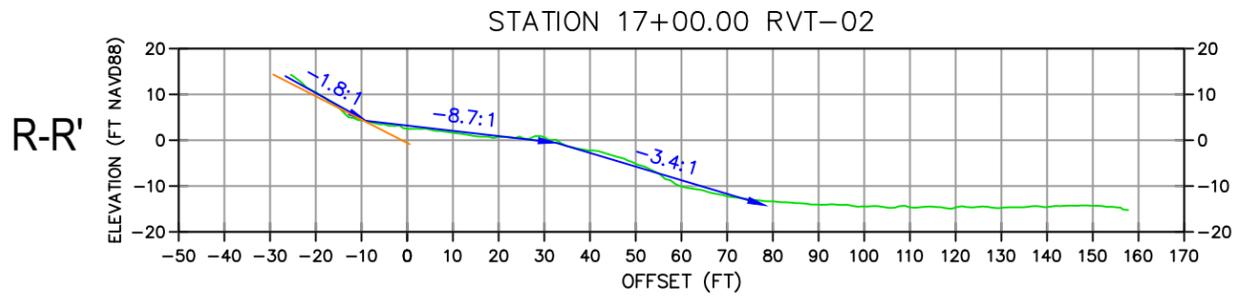
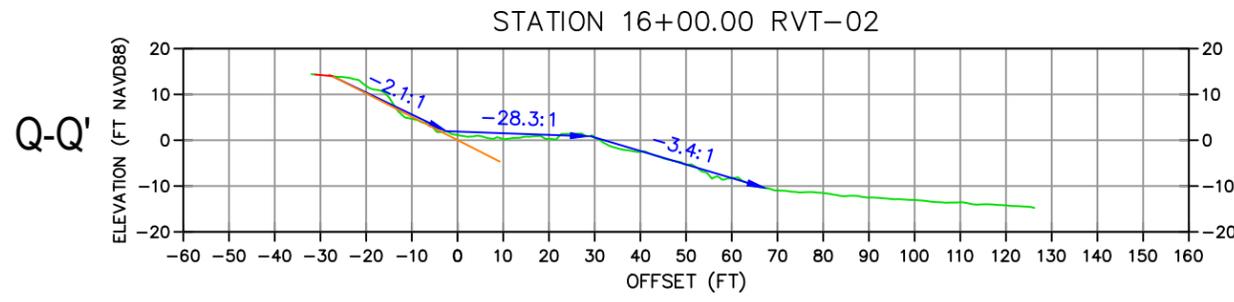
**MORRO BAY REVETMENT SEAWALL
SURVEY
MORRO BAY, CA**

PROFILES

Reference
Number:
S8



PROFILE RVT-02	EASTING	NORTHING	PROFILE NUMBER
Q Start	5,708,662.03	2,333,850.16	16+00
Q' End	5,708,766.96	2,333,656.80	
R Start	5,708,754.69	2,333,889.07	17+00
R' End	5,708,859.62	2,333,695.71	
S Start	5,708,842.58	2,333,936.77	18+00
S' End	5,708,985.67	2,333,673.09	



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 40'

LEGEND			
	MBES AND LIDAR DATA		INTERPOLATED SURFACE
	SLOPE 2:1		SLOPE CALCULATED

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SURVEY DATE:
May 21 & 23, 2024

PLOT DATE:
September 13, 2024

DESIGNED BY: JG

CHECKED BY: KJ

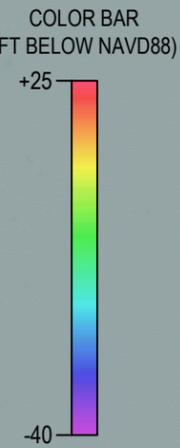
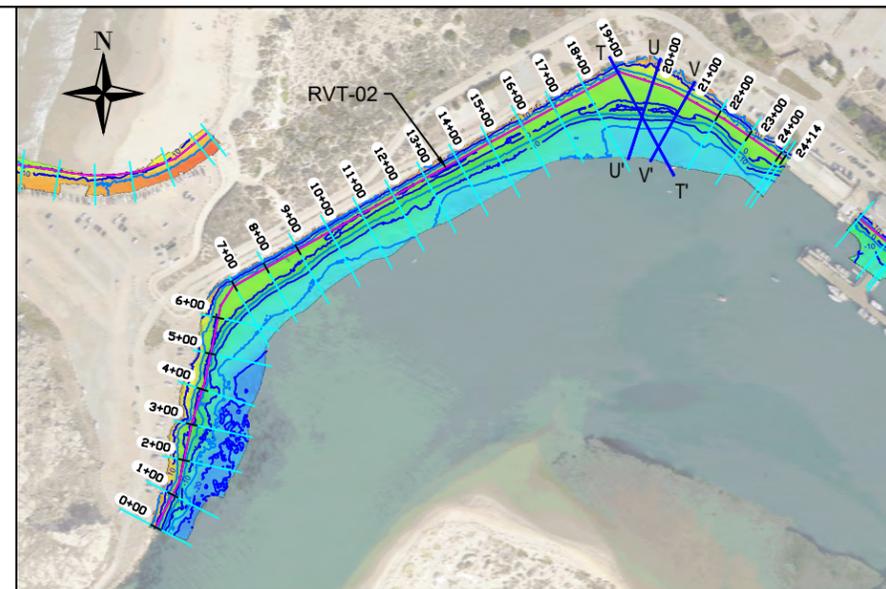
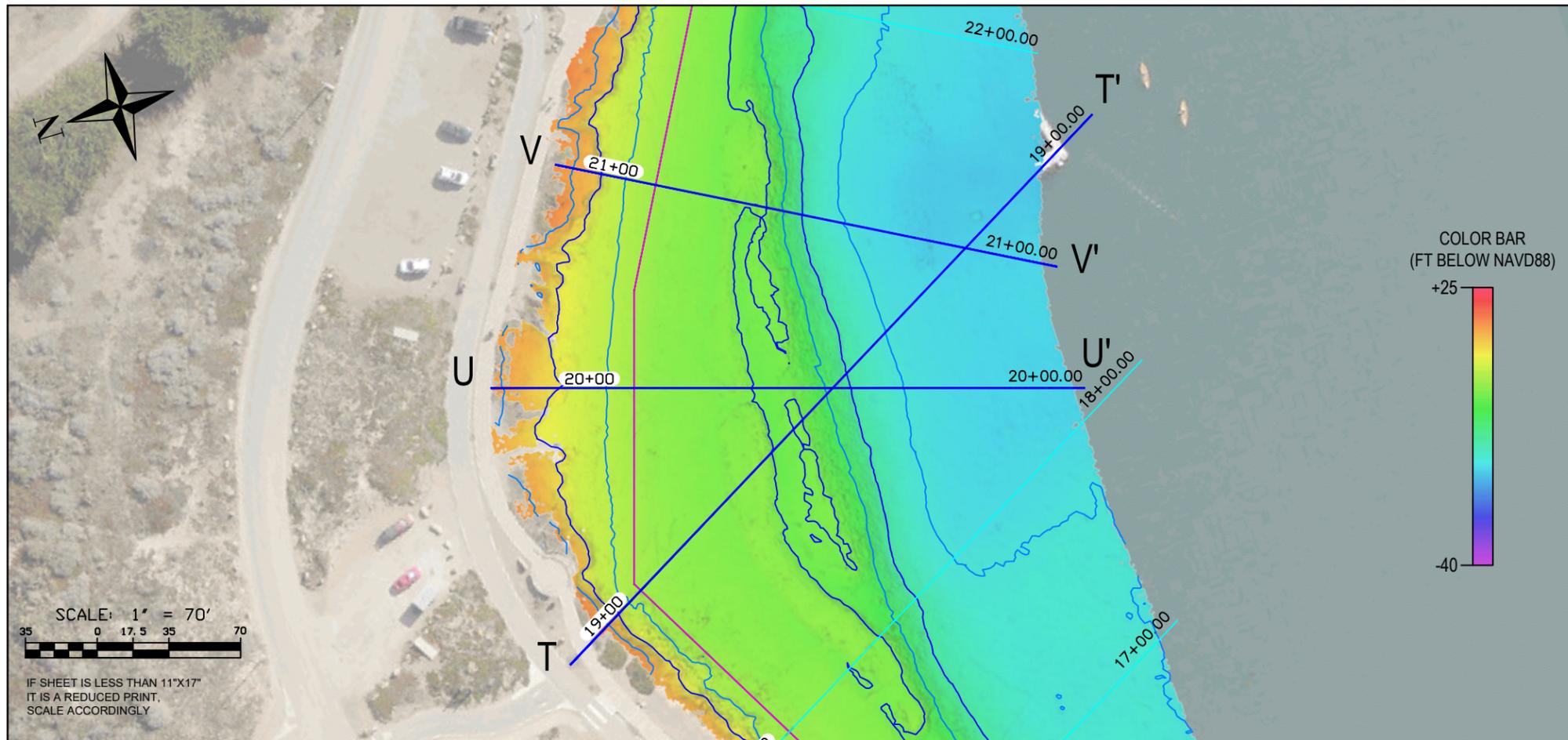
REVISION #

FILE NAME:
RBRA Morro Bay.dwg

**MORRO BAY REVETMENT SEAWALL
SURVEY
MORRO BAY, CA**

PROFILES

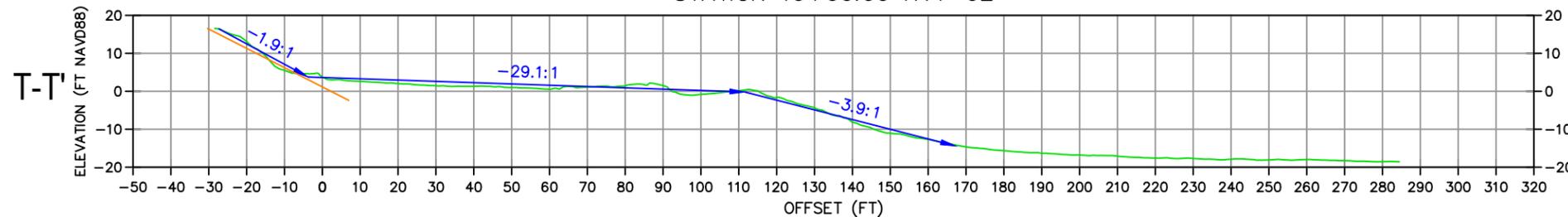
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Number:
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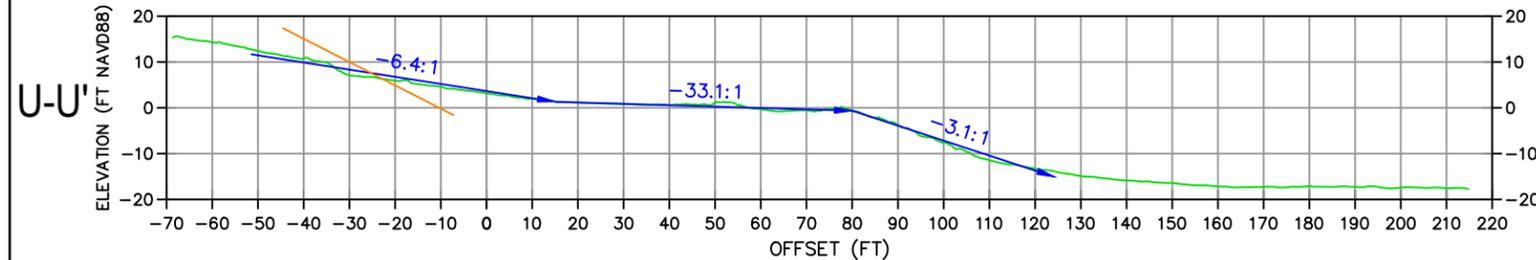
SCALE: 1" = 70'
 35 0 17.5 35 70
 IF SHEET IS LESS THAN 11"x17"
 IT IS A REDUCED PRINT.
 SCALE ACCORDINGLY

PROFILE RVT-02	EASTING	NORTHING	PROFILE NUMBER
T Start	5,708,930.47	2,333,984.46	19+00
T' End	5,709,106.95	2,333,659.26	
U Start	5,709,070.72	2,333,979.75	20+00
U' End	5,708,981.23	2,333,703.90	
V Start	5,709,164.60	2,333,916.18	21+00
V' End	5,709,041.59	2,333,698.54	

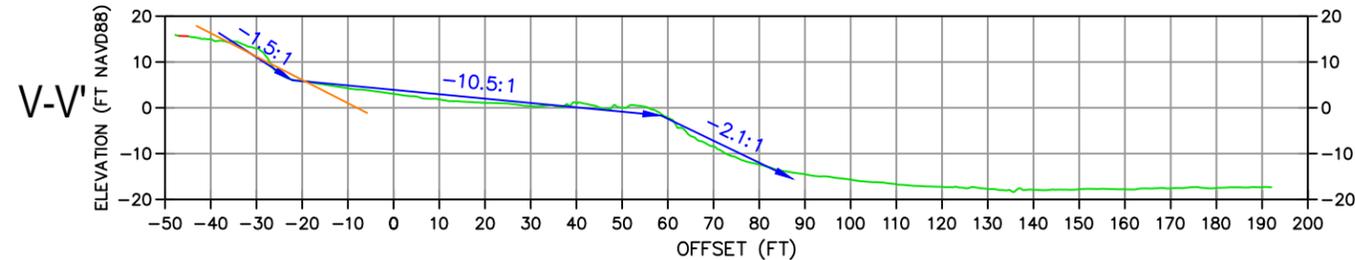
STATION 19+00.00 RVT-02



STATION 20+00.00 RVT-02



STATION 21+00.00 RVT-02



CROSS SECTIONS:
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 40'

LEGEND			
	MBES AND LIDAR DATA		INTERPOLATED SURFACE
	SLOPE 2:1		SLOPE CALCULATED

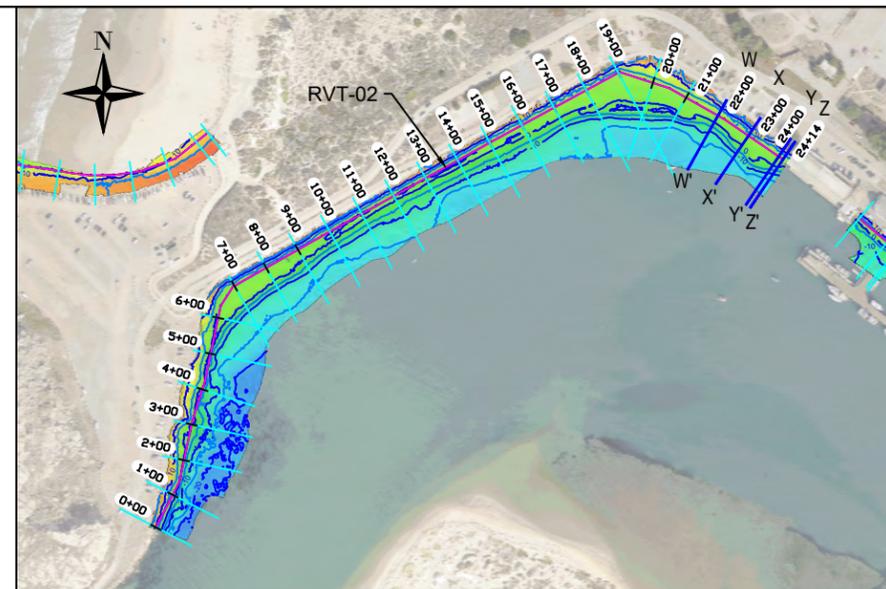
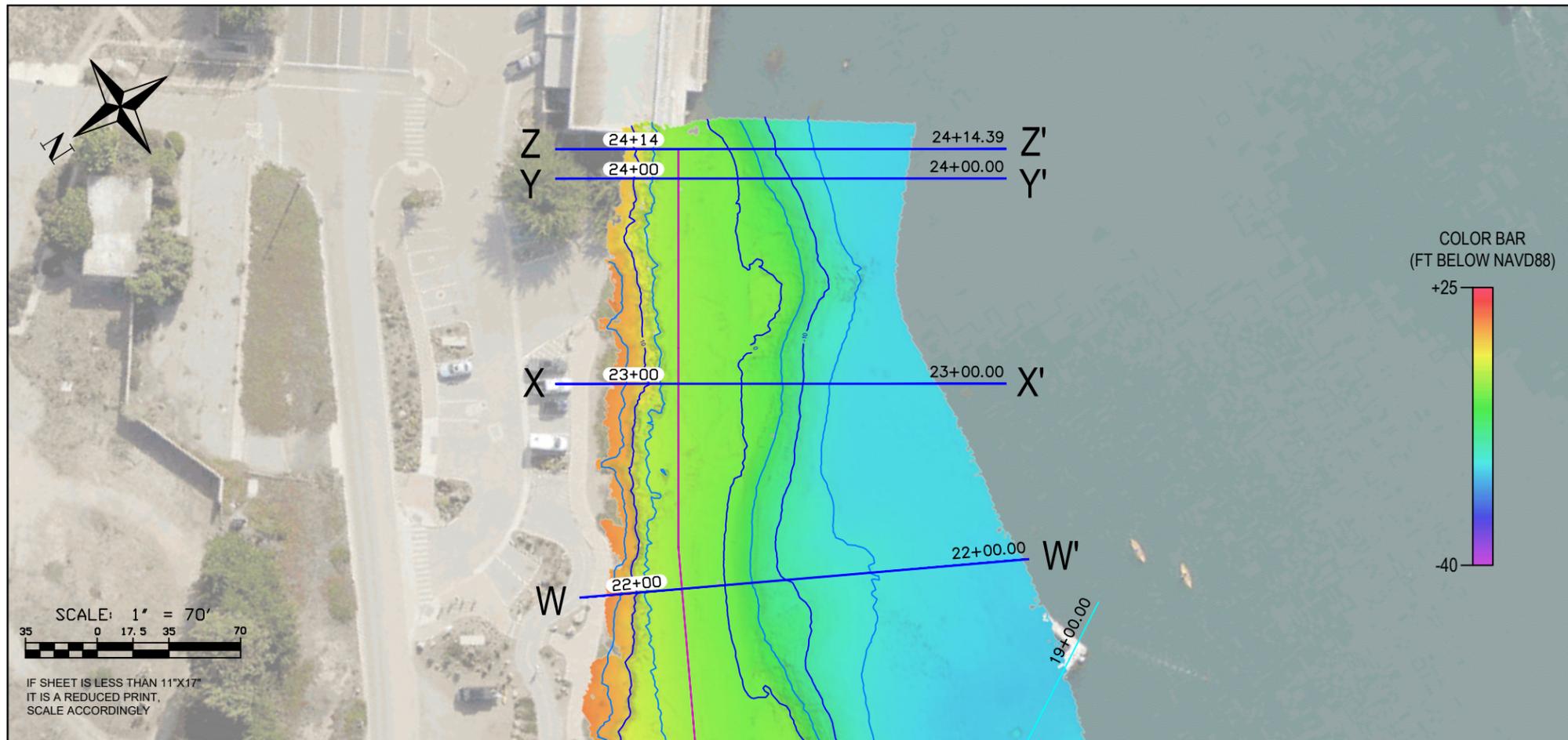
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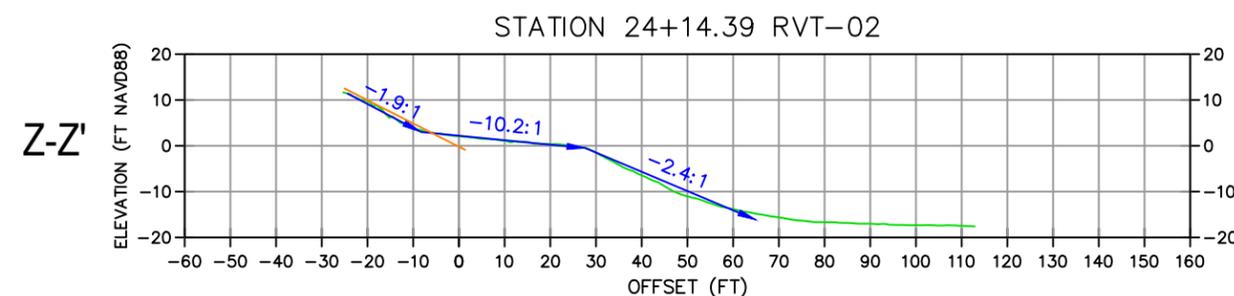
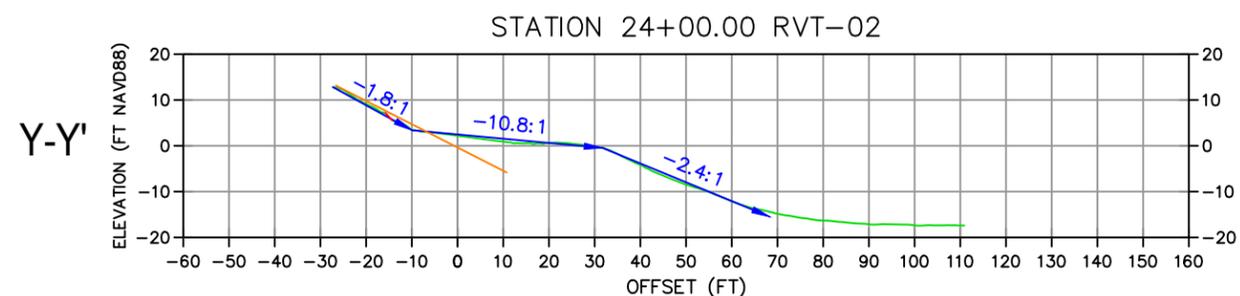
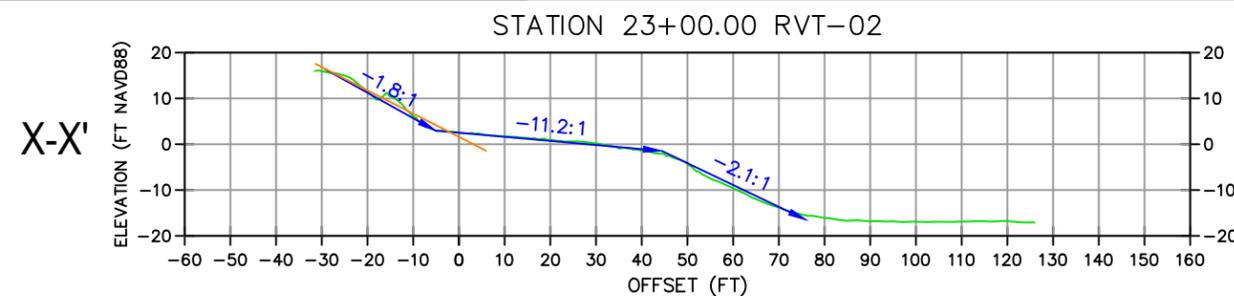
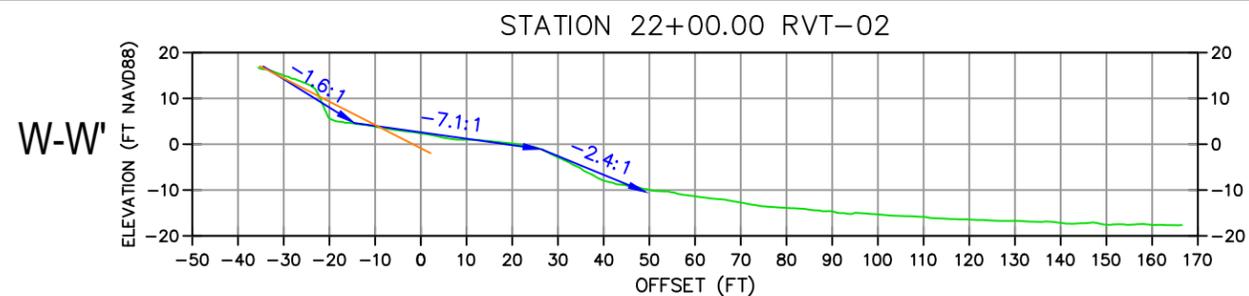
SURVEY DATE: May 21 & 23, 2024
 PLOT DATE: September 13, 2024
 DESIGNED BY: JG
 CHECKED BY: KJ
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 FILE NAME: RBRA Morro Bay.dwg

**MORRO BAY REVETMENT SEAWALL
 SURVEY
 MORRO BAY, CA
 PROFILES**

Reference
 Number:
S10



PROFILE RVT-02	EASTING	NORTHING	PROFILE NUMBER
W Start	5,709,251.66	2,333,866.98	22+00
W End	5,709,143.41	2,333,675.45	
X Start	5,709,344.39	2,333,818.01	23+00
X End	5,709,220.21	2,333,636.40	
Y Start	5,709,426.93	2,333,761.56	24+00
Y End	5,709,302.75	2,333,579.96	
Z Start	5,709,438.81	2,333,753.44	24+14.39
Z End	5,709,314.63	2,333,571.84	



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 40'

LEGEND			
	MBES AND LIDAR DATA		INTERPOLATED SURFACE
	SLOPE 2:1		SLOPE CALCULATED

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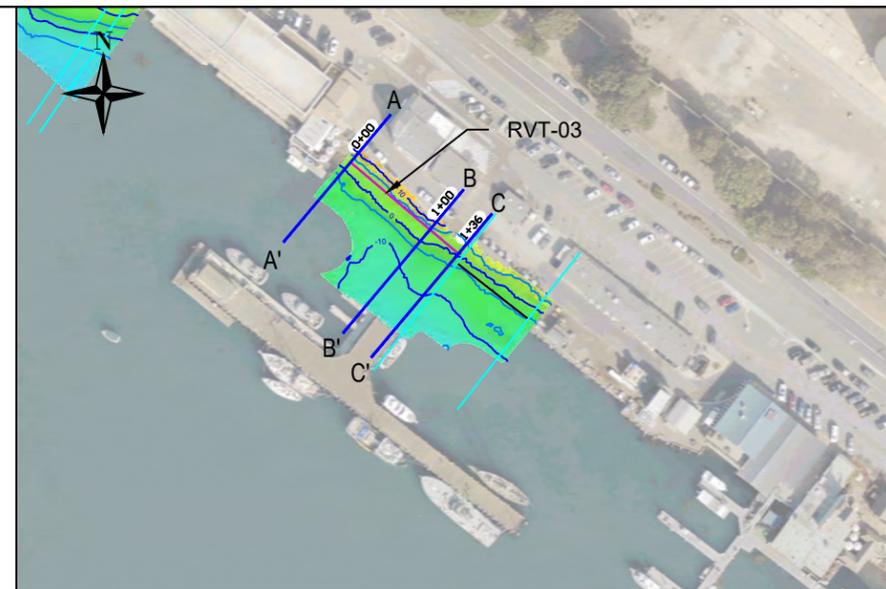
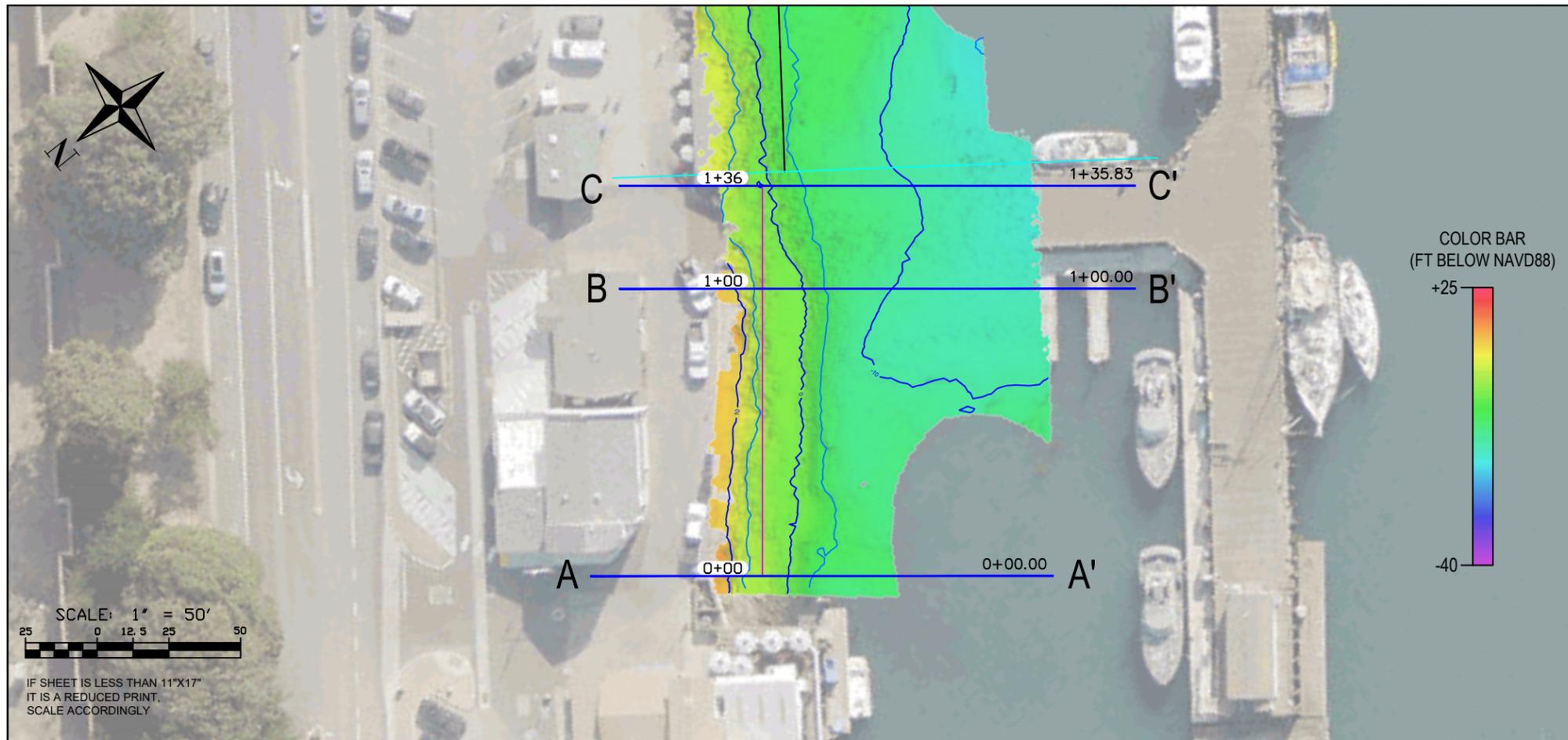
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SURVEY DATE: May 21 & 23, 2024	PLOT DATE: September 13, 2024
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**MORRO BAY REVETMENT SEAWALL
SURVEY
MORRO BAY, CA**

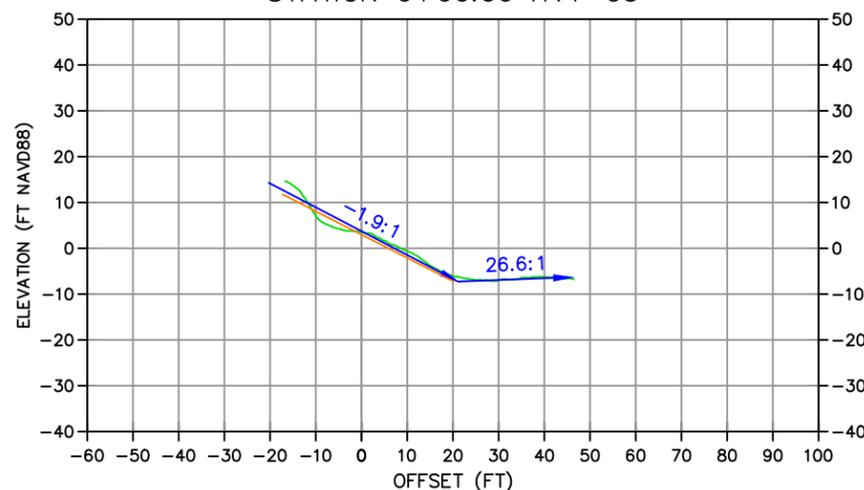
PROFILES

Reference
Number:
S11

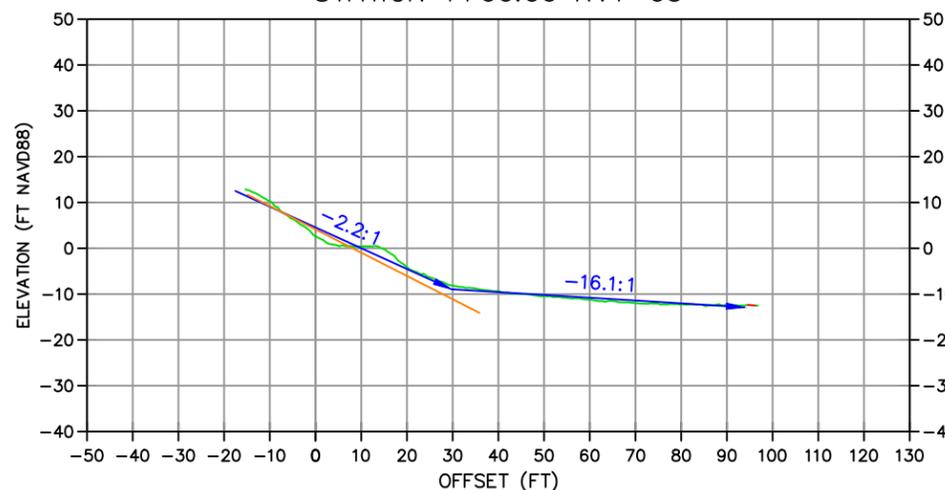


PROFILE RVT-03	EASTING	NORTHING	PROFILE NUMBER
A Start	5,709,652.06	2,333,589.00	0+00
A' End	5,709,548.81	2,333,466.77	
B Start	5,709,722.00	2,333,516.82	1+00
B' End	5,709,605.83	2,333,379.32	
C Start	5,709,749.36	2,333,493.70	1+35.83
C' End	5,709,633.20	2,333,356.20	

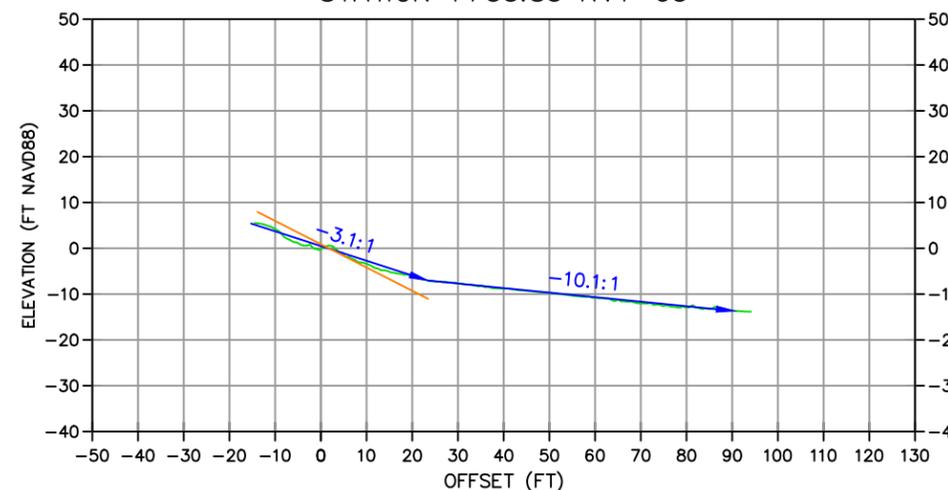
A-A'
STATION 0+00.00 RVT-03



B-B'
STATION 1+00.00 RVT-03



C-C'
STATION 1+35.83 RVT-03



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 40'

LEGEND			
	MBES AND LIDAR DATA		INTERPOLATED SURFACE
	SLOPE 2:1		SLOPE CALCULATED

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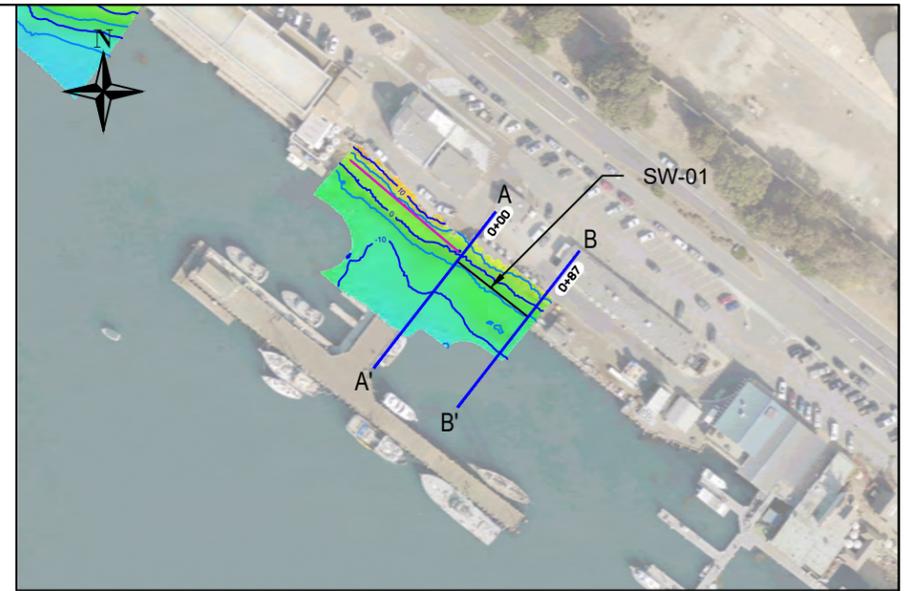
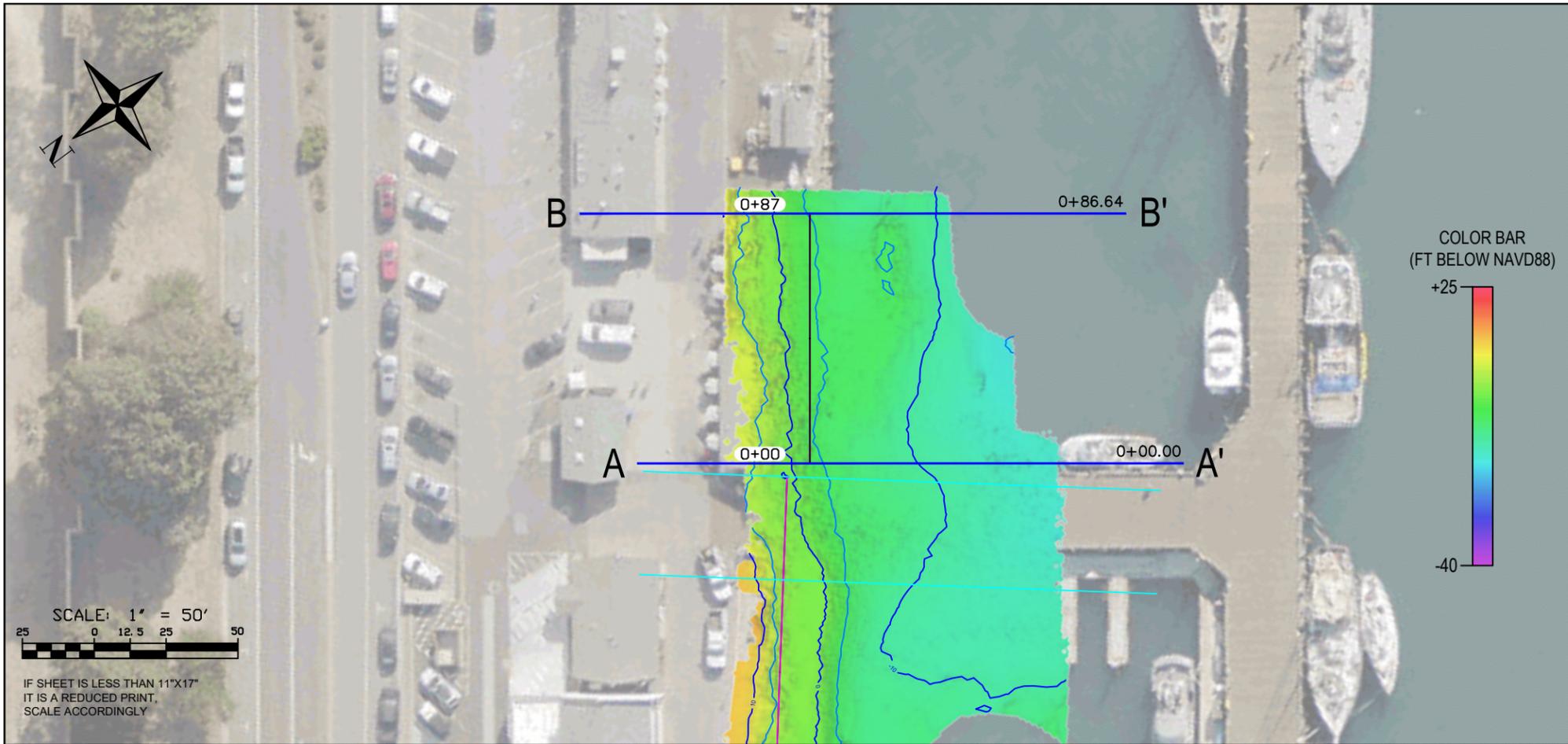
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SURVEY DATE: May 21 & 23, 2024
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**MORRO BAY REVETMENT SEAWALL
SURVEY
MORRO BAY, CA**

PROFILES

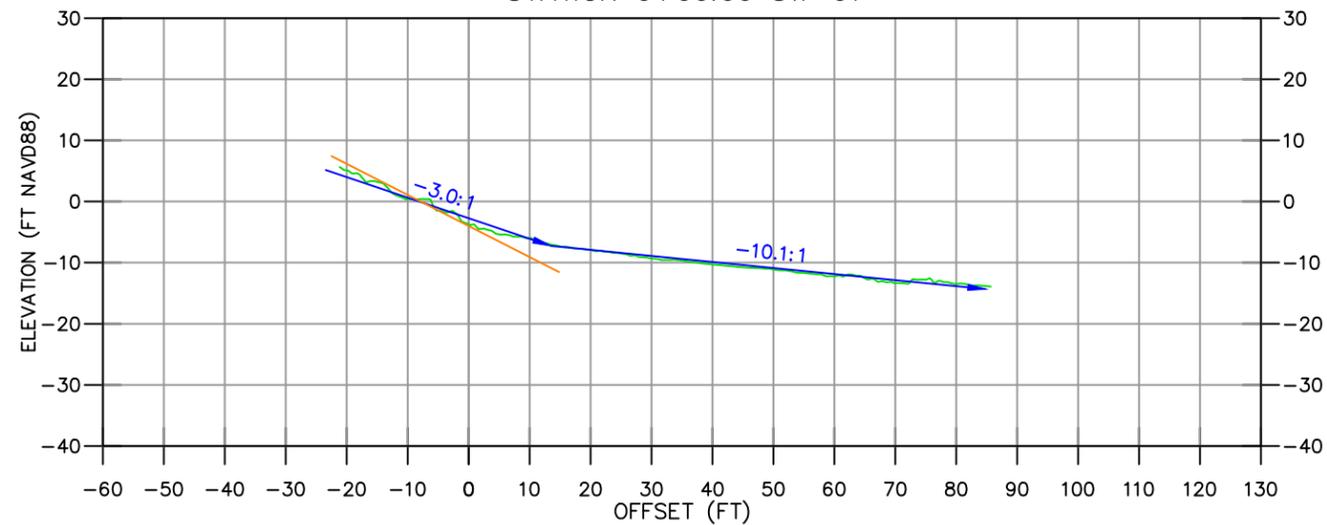
Reference Number:
S12



PROFILE SW-01	EASTING	NORTHING	PROFILE NUMBER
A Start	5,709,752.87	2,333,493.66	0+00
A' End	5,709,635.70	2,333,344.09	
B Start	5,709,833.41	2,333,455.98	0+86.64
B' End	5,709,716.24	2,333,306.40	

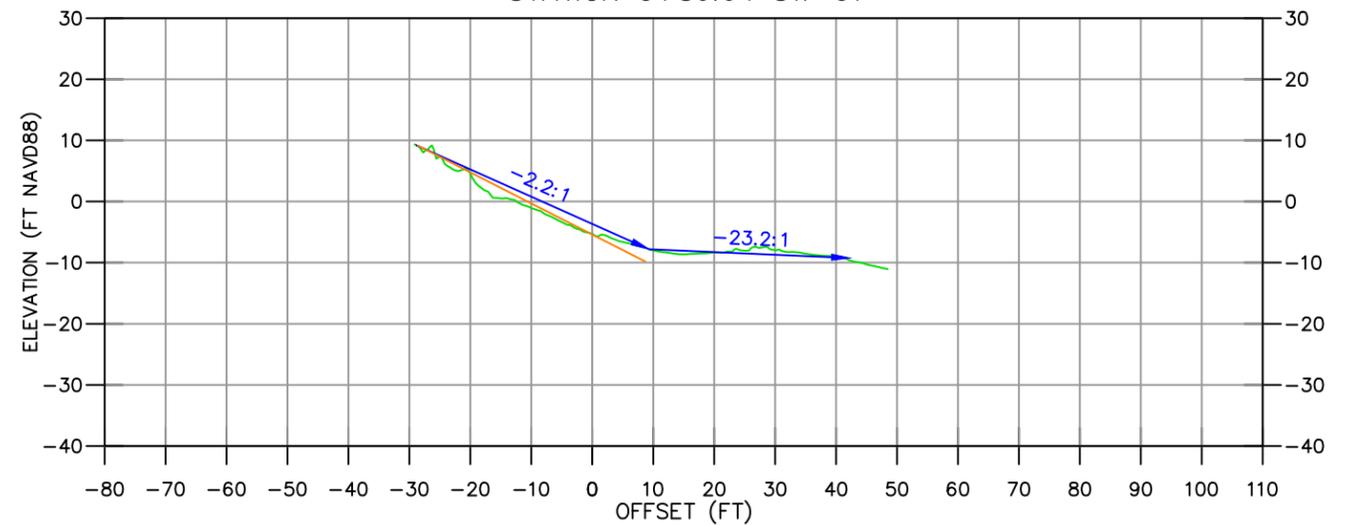
A-A'

STATION 0+00.00 SW-01



B-B'

STATION 0+86.64 SW-01



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 30'

LEGEND			
	MBES AND LIDAR DATA		SLOPE CALCULATED
	SLOPE 2:1		

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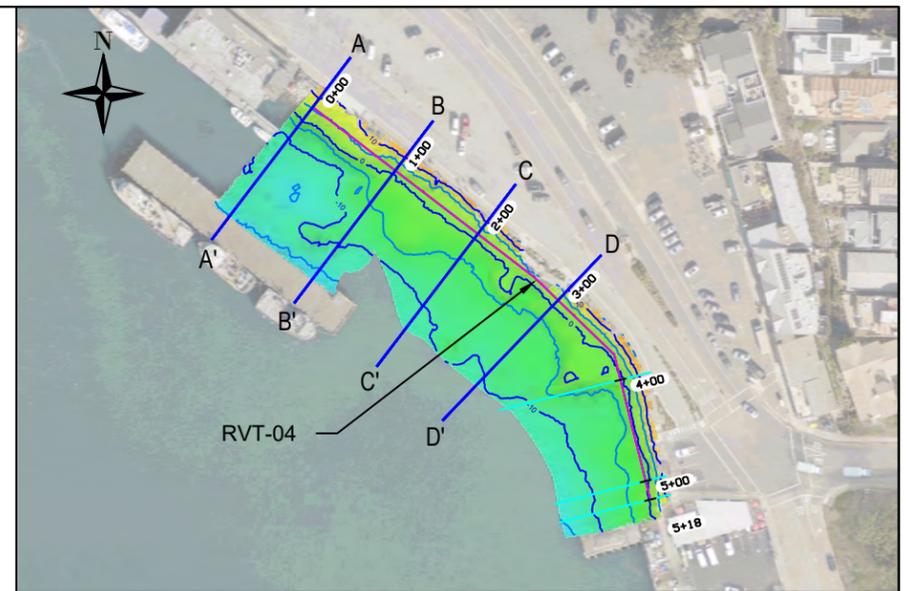
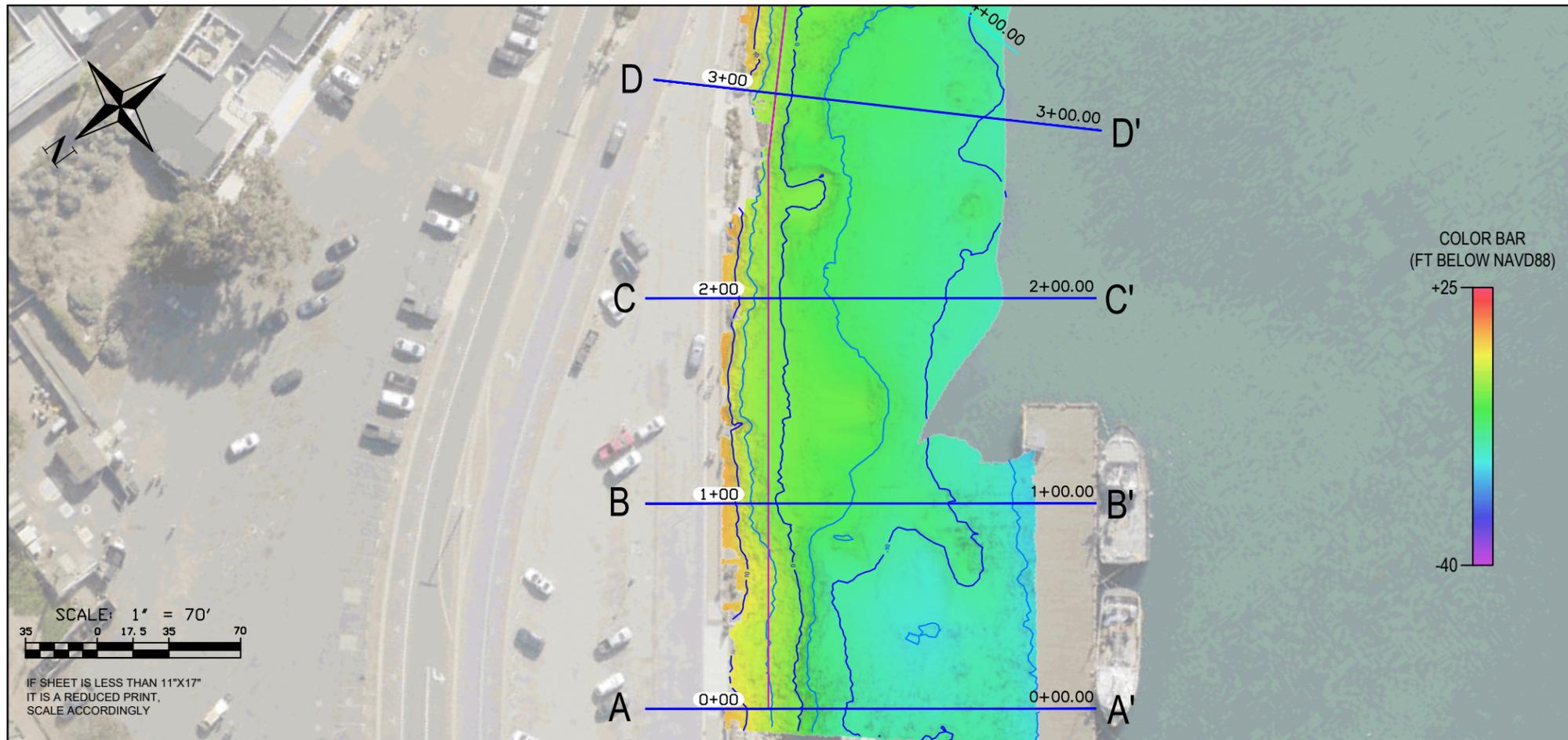
REVISION #

FILE NAME:
RBRA Morro Bay.dwg

MORRO BAY REVETMENT SEAWALL
SURVEY
MORRO BAY, CA

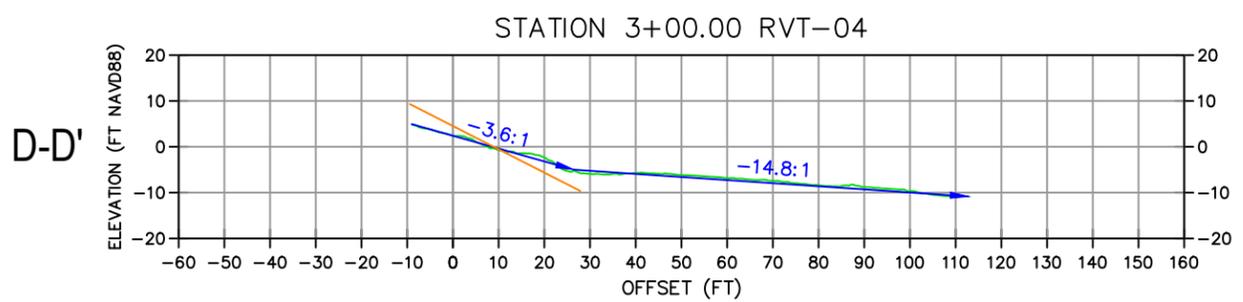
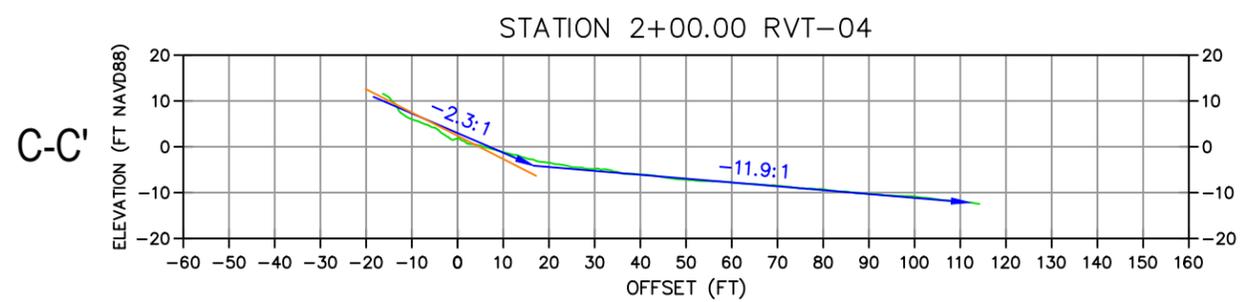
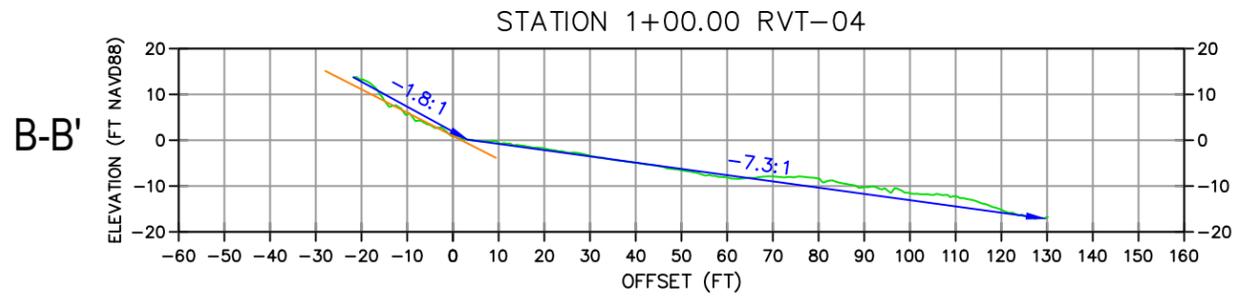
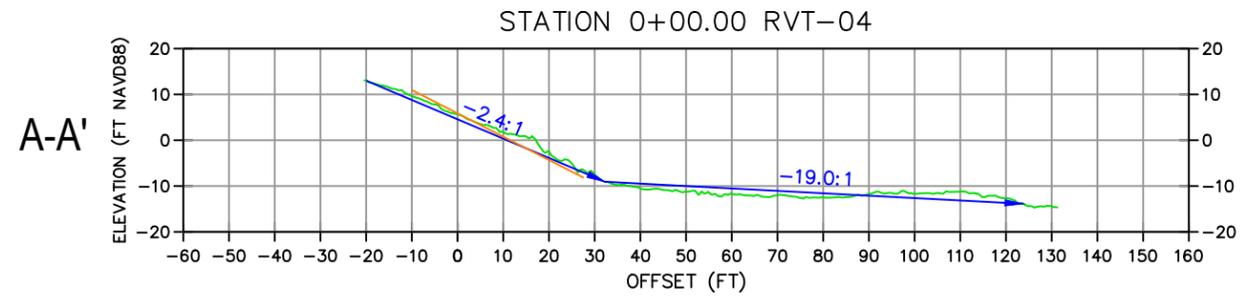
PROFILES

Reference
Number:
S13



PROFILE RVT-04	EASTING	NORTHING	PROFILE NUMBER
A Start	5,710,422.07	2,332,989.96	0+00
A' End	5,710,288.29	2,332,815.31	
B Start	5,710,501.46	2,332,929.15	1+00
B' End	5,710,367.68	2,332,754.50	
C Start	5,710,580.85	2,332,868.34	2+00
C' End	5,710,447.07	2,332,693.69	
D Start	5,710,663.03	2,332,800.33	3+00
D' End	5,710,510.31	2,332,641.98	

SCALE: 1" = 70'
 35 0 17.5 35 70
 IF SHEET IS LESS THAN 11"x17"
 IT IS A REDUCED PRINT.
 SCALE ACCORDINGLY



CROSS SECTIONS:
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 40'

LEGEND			
	MBES AND LIDAR DATA		SLOPE 2:1
	SLOPE CALCULATED		

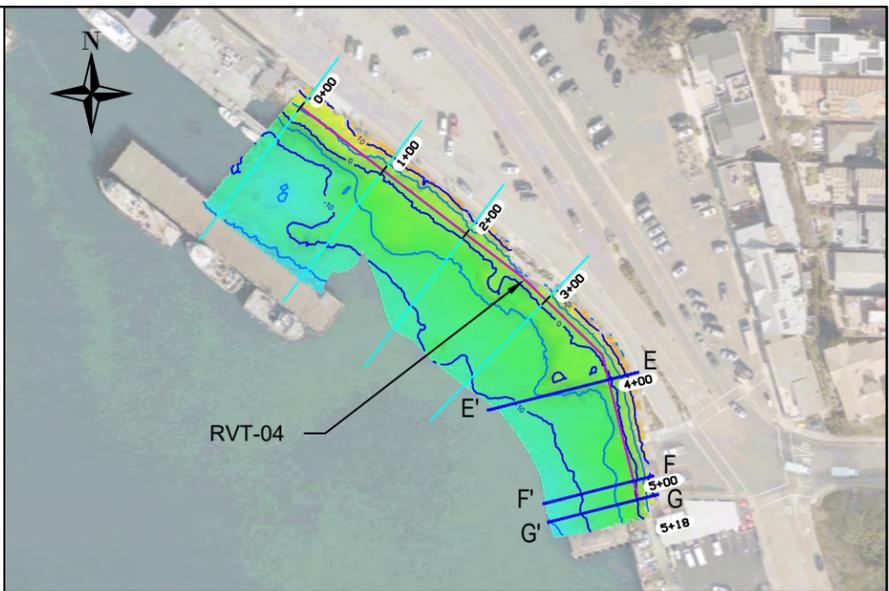
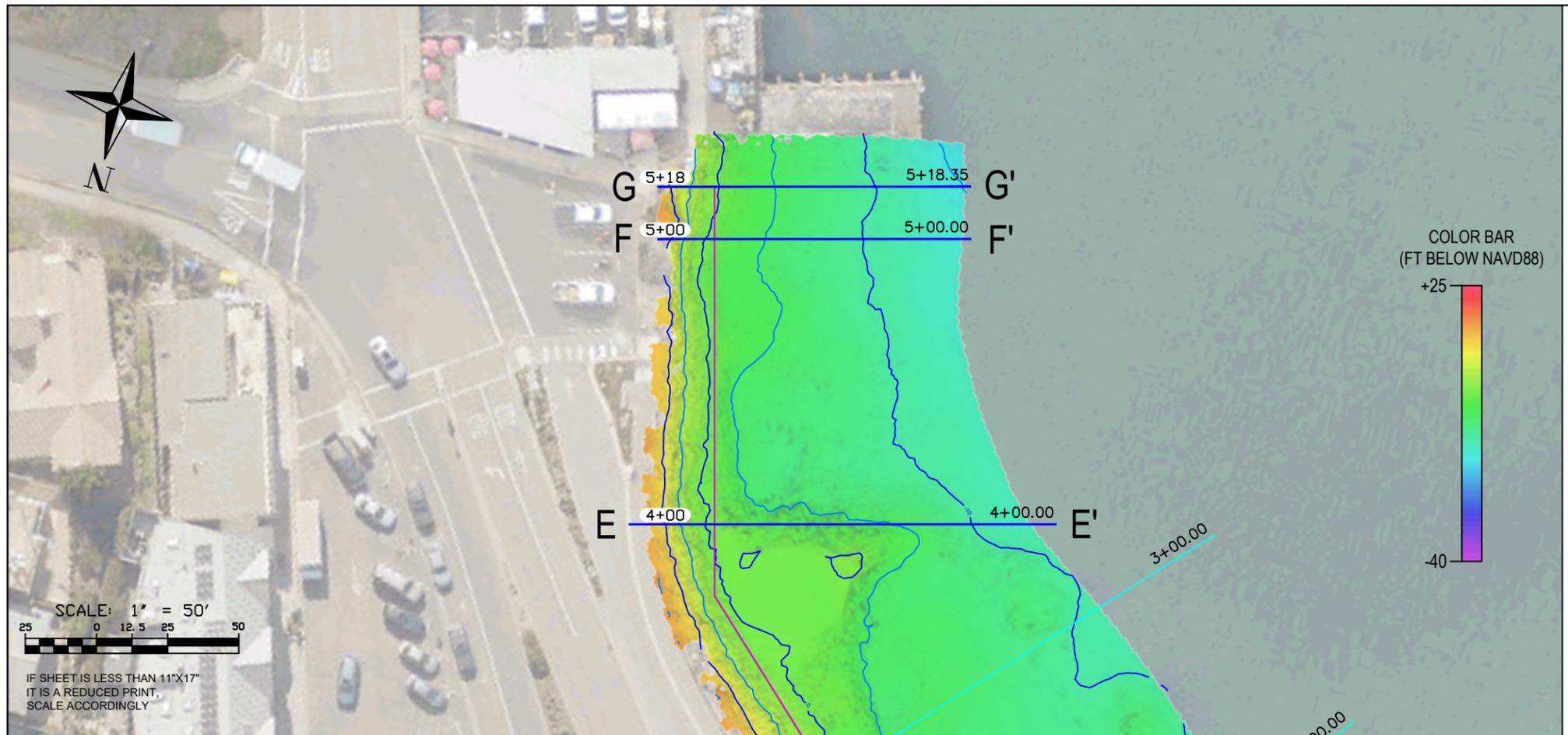
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**MORRO BAY REVETMENT SEAWALL
 SURVEY
 MORRO BAY, CA
 PROFILES**

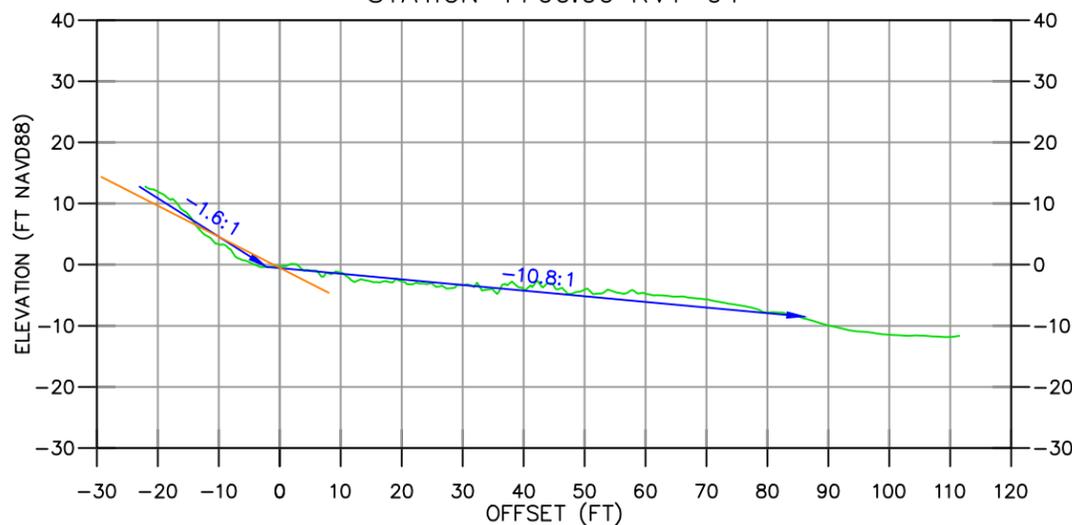
Reference Number:
S14



PROFILE RVT-04	EASTING	NORTHING	PROFILE NUMBER
E Start	5,710,710.53	2,332,688.11	4+00
E' End	5,710,565.02	2,332,651.69	
F Start	5,710,725.11	2,332,588.68	5+00
F' End	5,710,618.40	2,332,561.97	
G Start	5,710,729.57	2,332,570.88	5+18.35
G' End	5,710,622.86	2,332,544.17	

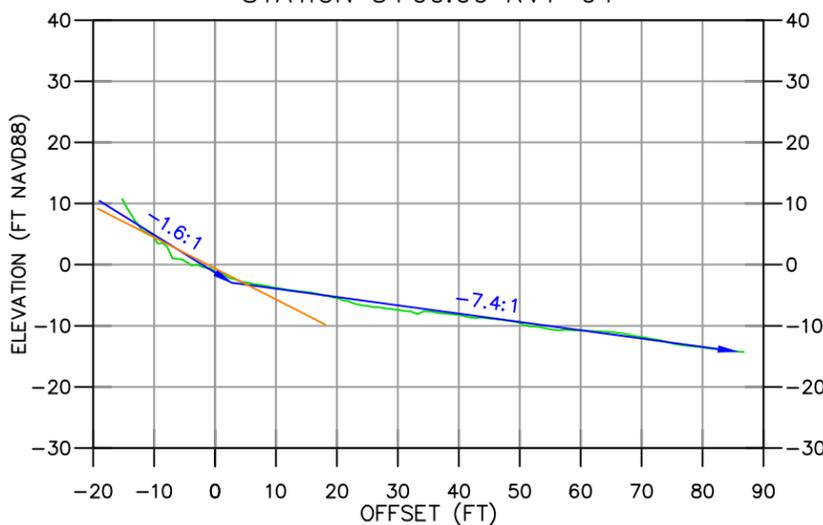
E-E'

STATION 4+00.00 RVT-04



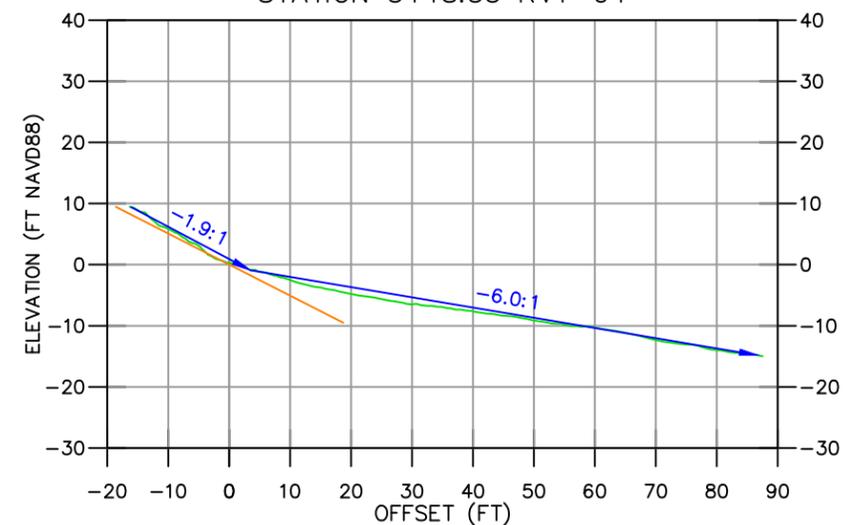
F-F'

STATION 5+00.00 RVT-04



G-G'

STATION 5+18.35 RVT-04



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 30'

LEGEND			
	MBES AND LIDAR DATA		SLOPE CALCULATED
	SLOPE 2:1		

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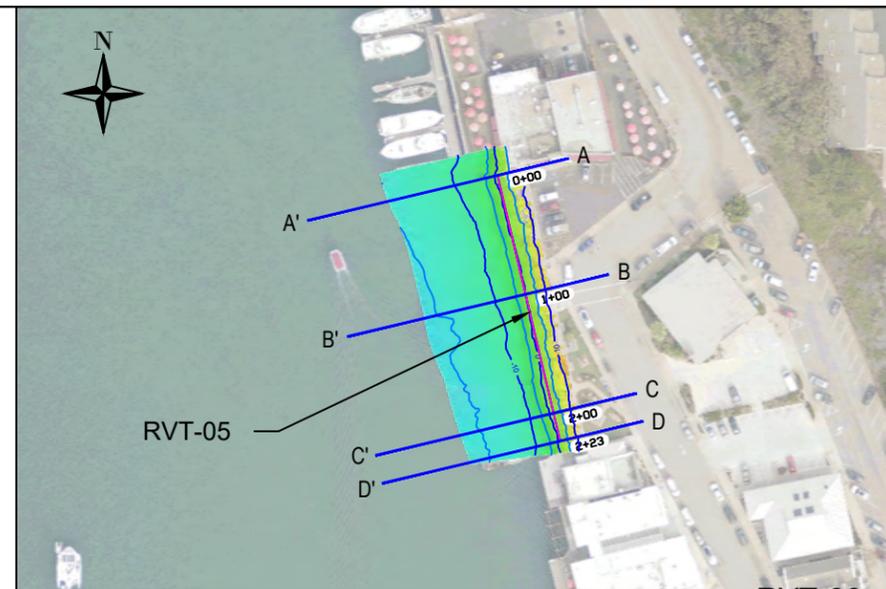
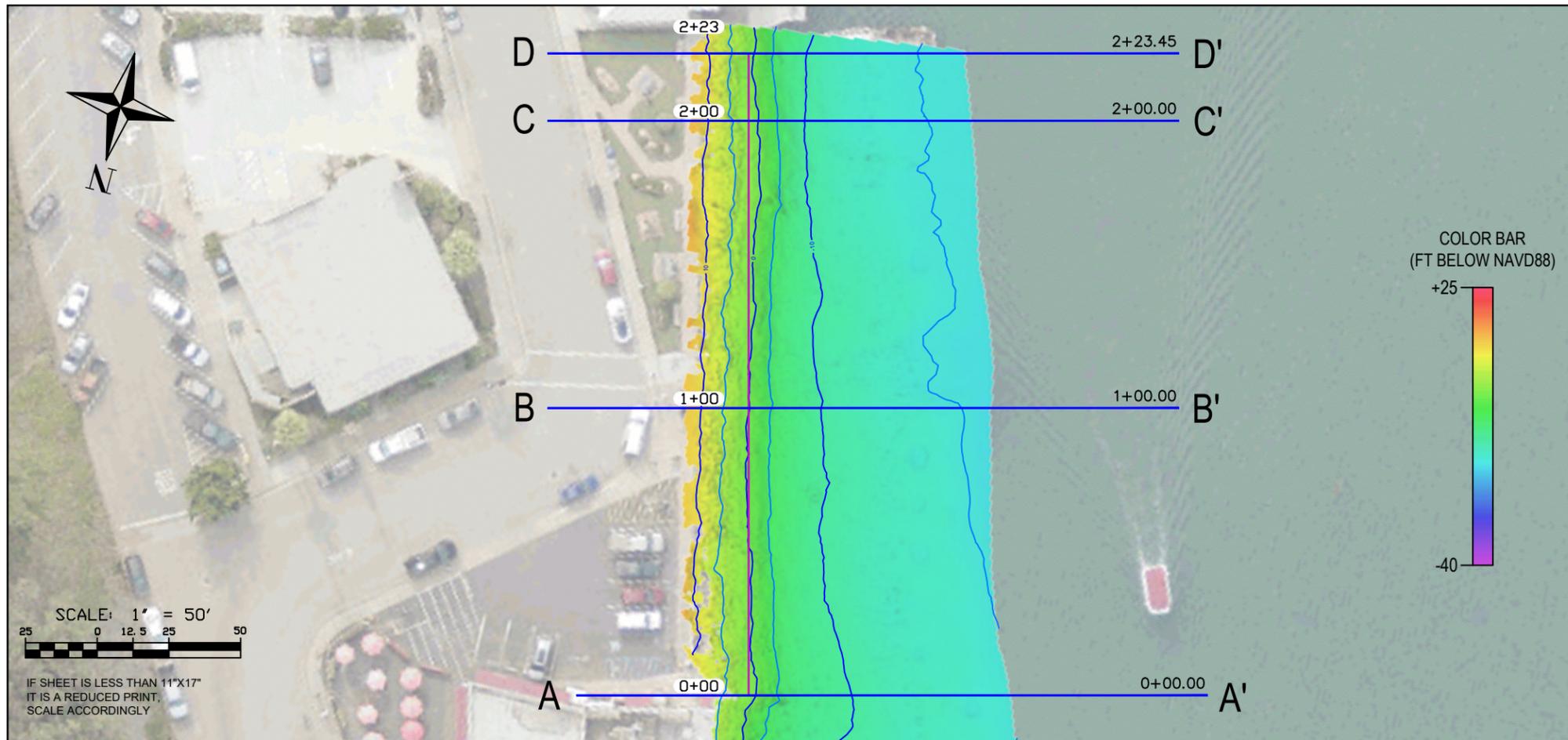
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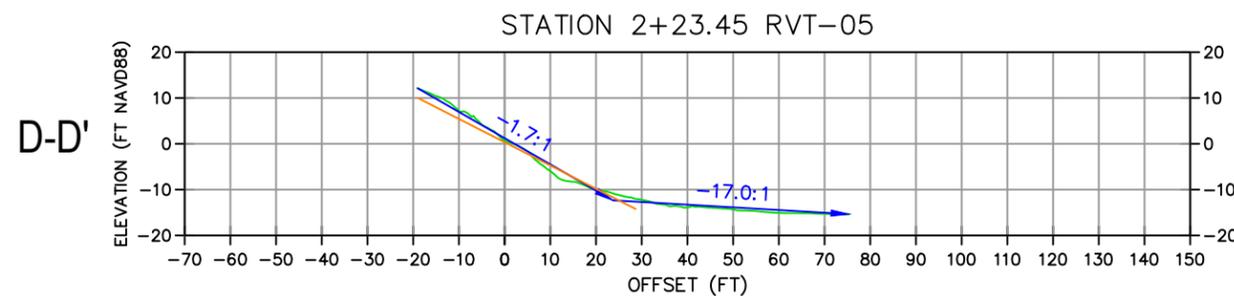
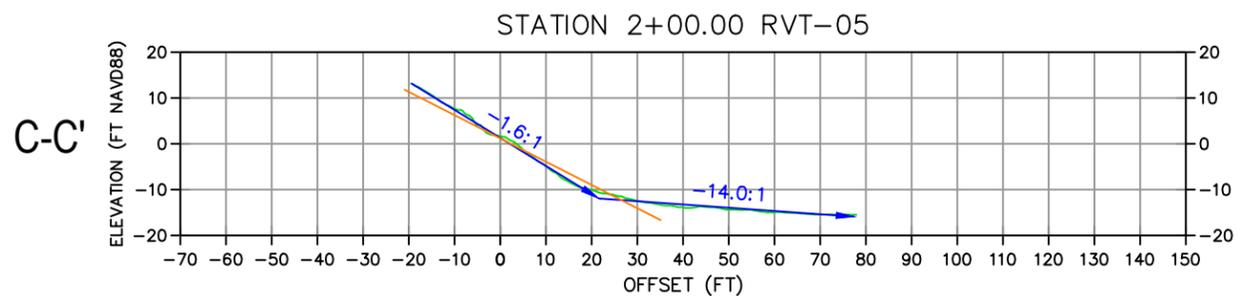
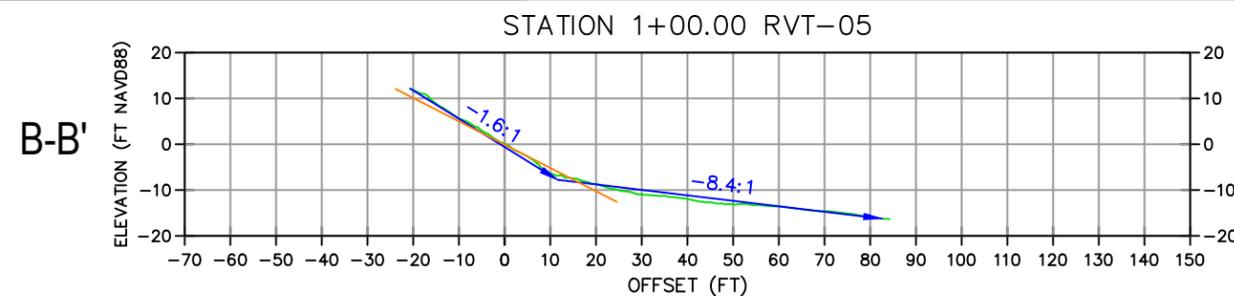
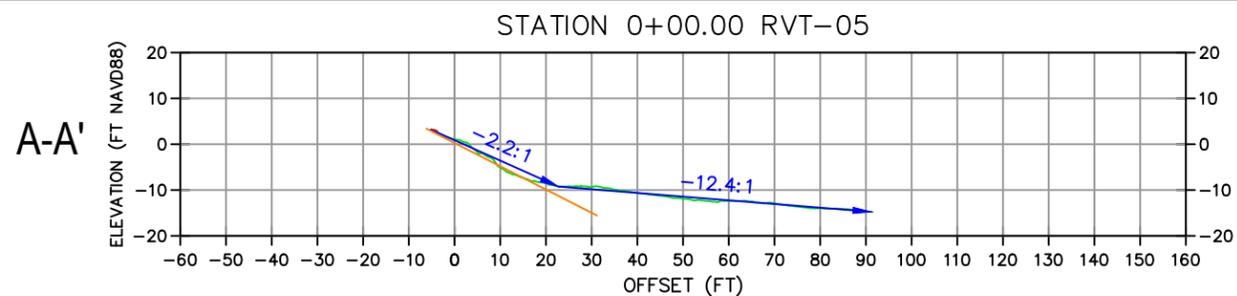
**MORRO BAY REVETMENT SEAWALL
SURVEY
MORRO BAY, CA**

PROFILES

Reference
Number:
S15



PROFILE RVT-05	EASTING	NORTHING	PROFILE NUMBER
A Start	5,710,836.83	2,332,303.69	0+00
A' End	5,710,622.74	2,332,253.04	
B Start	5,710,869.58	2,332,208.68	1+00
B' End	5,710,655.49	2,332,158.03	
C Start	5,710,892.60	2,332,111.37	2+00
C' End	5,710,678.51	2,332,060.72	
D Start	5,710,898.00	2,332,088.55	2+23.45
D' End	5,710,683.91	2,332,037.90	



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 40'

LEGEND			
	MBES AND LIDAR DATA		INTERPOLATED SURFACE
	SLOPE 2:1		SLOPE CALCULATED

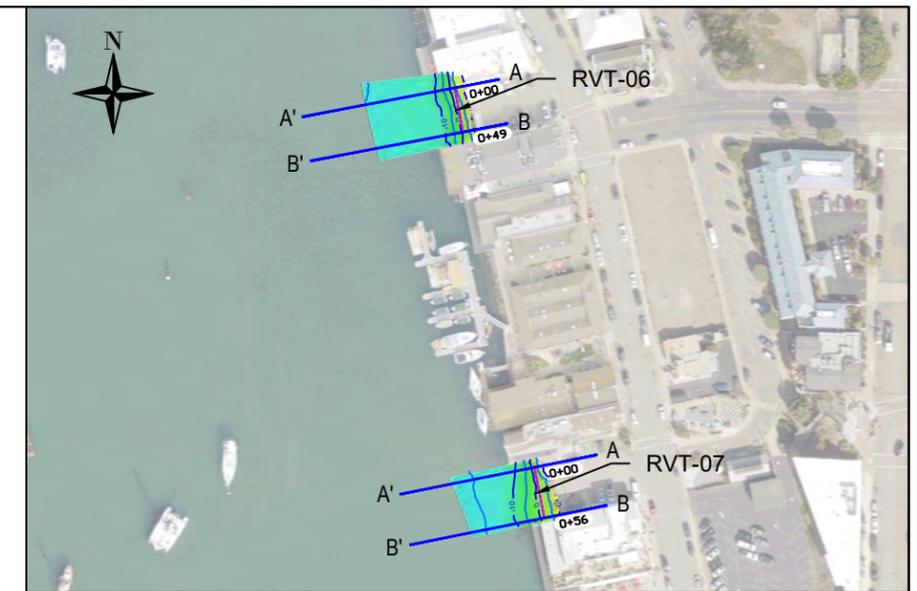
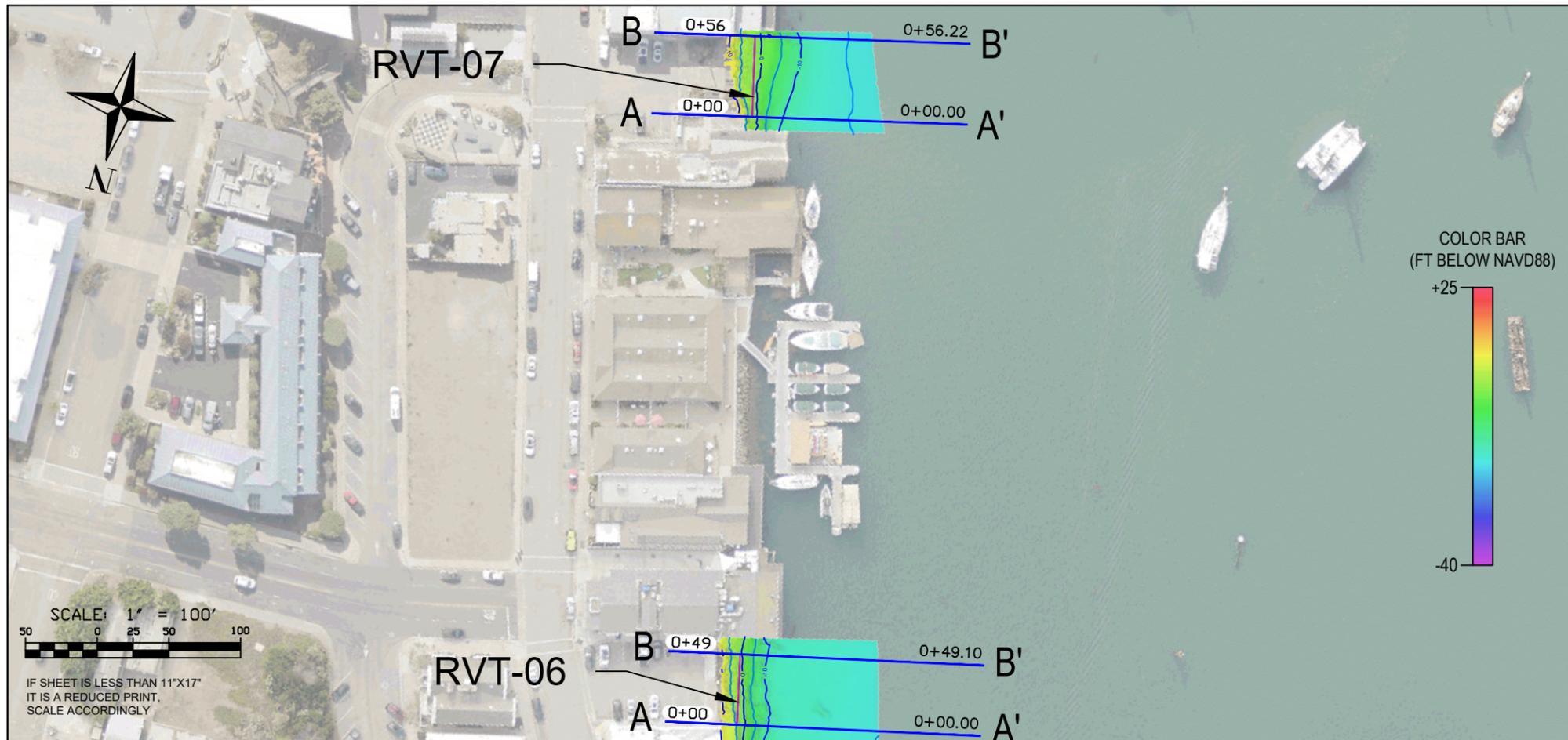
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FILE NAME: RBRA Morro Bay.dwg

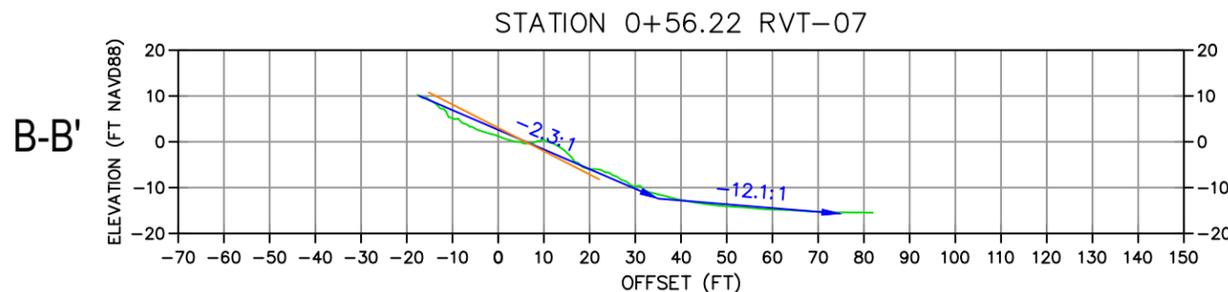
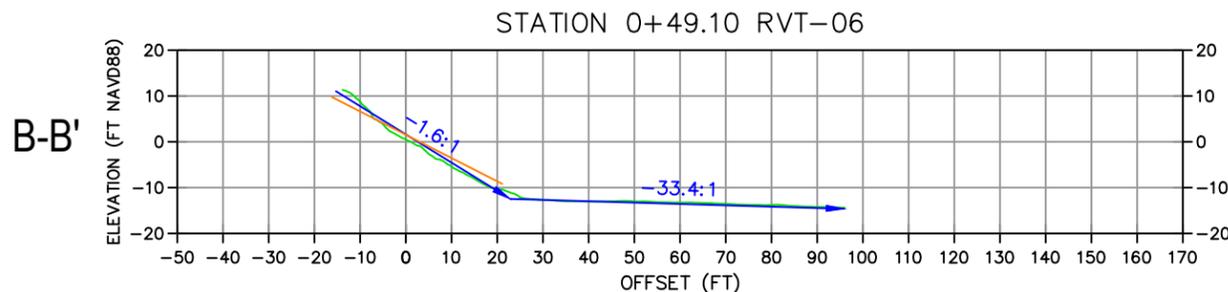
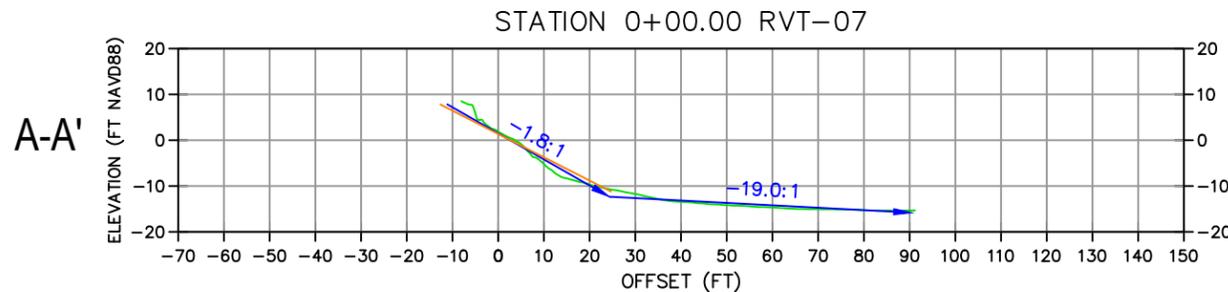
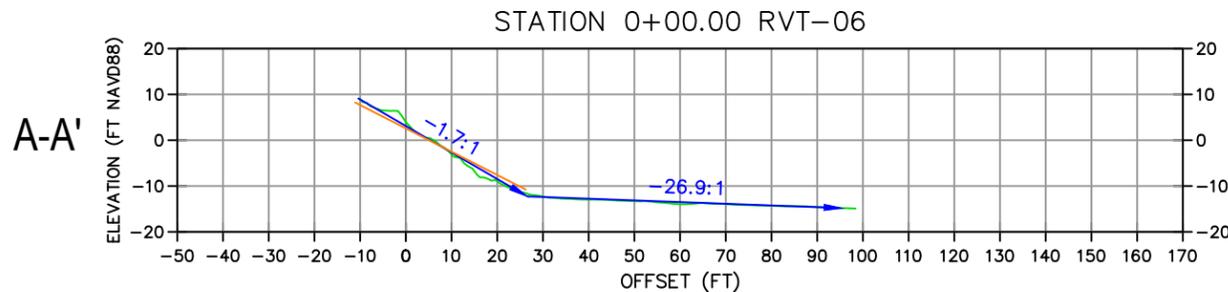
**MORRO BAY REVETMENT SEAWALL
SURVEY
MORRO BAY, CA
PROFILES**

Reference
Number:
S16



PROFILE	EASTING	NORTHING	PROFILE NUMBER
PROFILE RVT-06			
A Start	5,710,911.94	2,331,942.38	0+00
A' End	5,710,695.74	2,331,901.64	
B Start	5,710,921.03	2,331,894.13	0+49.10
B' End	5,710,704.83	2,331,853.39	
PROFILE RVT-07			
A Start	5,711,018.58	2,331,532.57	0+00
A' End	5,710,802.81	2,331,489.67	
B Start	5,711,029.55	2,331,477.43	0+56.22
B' End	5,710,813.77	2,331,434.54	

SCALE: 1" = 100'
 50 0 25 50 100
 IF SHEET IS LESS THAN 11"x17"
 IT IS A REDUCED PRINT.
 SCALE ACCORDINGLY



CROSS SECTIONS:
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 40'

LEGEND		
	MBES AND LIDAR DATA	
	SLOPE 2:1	
		SLOPE CALCULATED

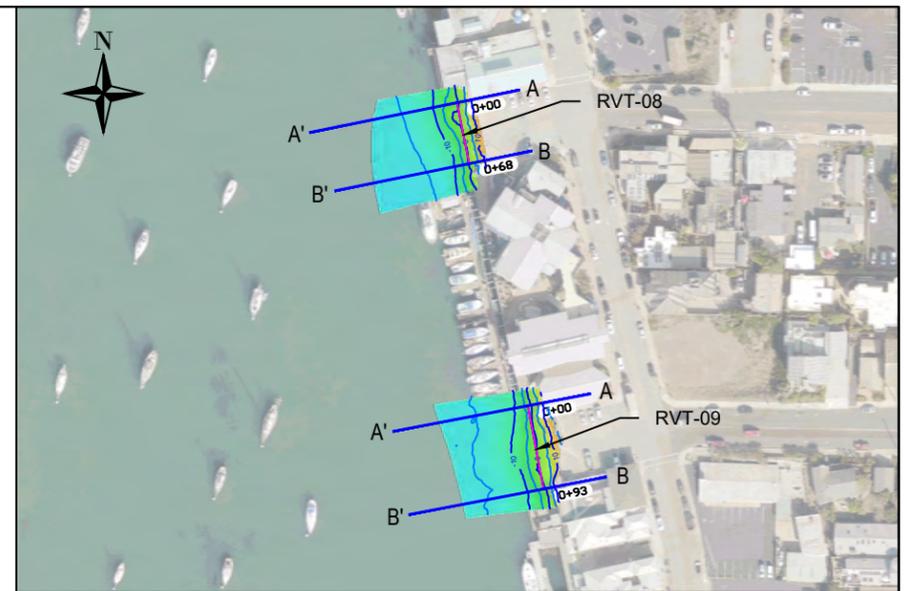
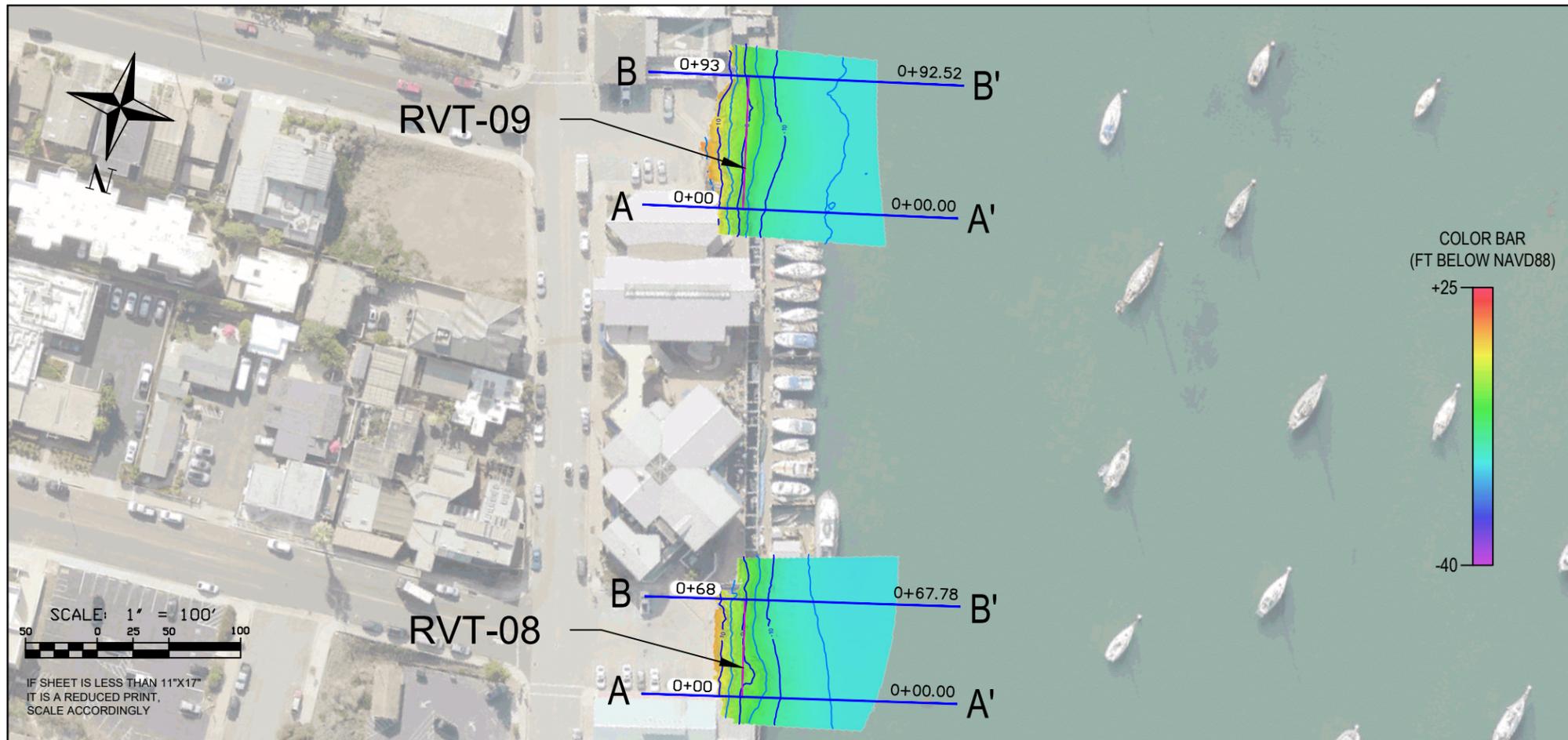
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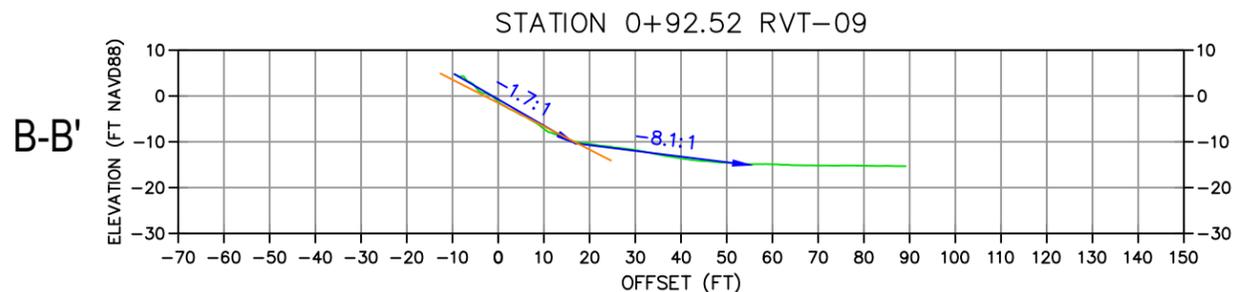
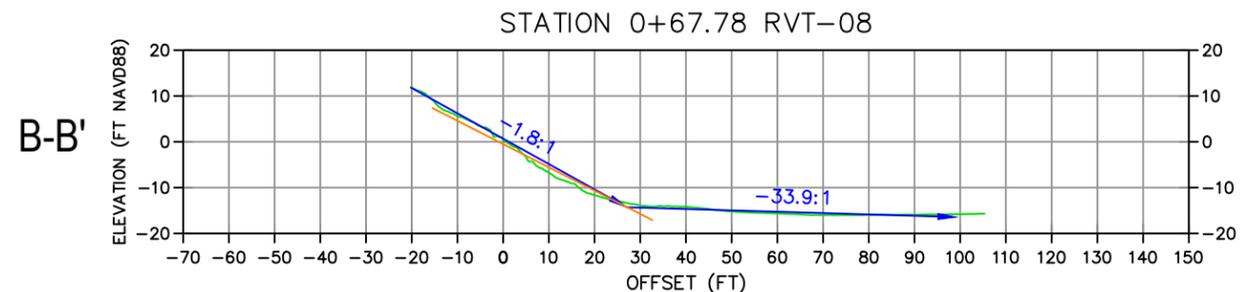
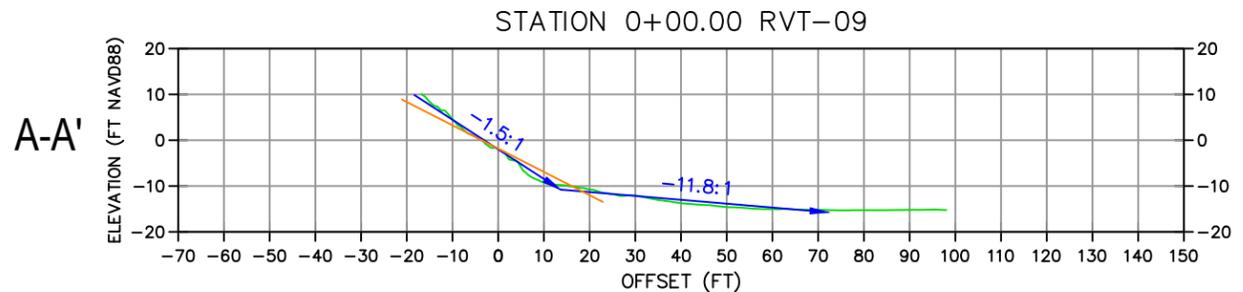
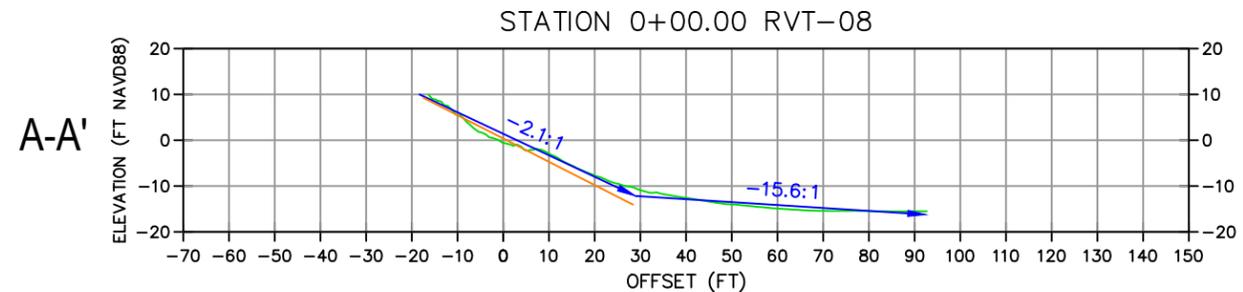
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 PLOT DATE: September 13, 2024
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 FILE NAME: RBRA Morro Bay.dwg

**MORRO BAY REVETMENT SEAWALL
 SURVEY
 MORRO BAY, CA
 PROFILES**

Reference Number:
S17



PROFILE	EASTING	NORTHING	PROFILE NUMBER
PROFILE RVT-08			
A Start	5,711,085.95	2,331,237.11	0+00
A' End	5,710,870.29	2,331,193.61	
B Start	5,711,099.35	2,331,170.67	0+67.78
B' End	5,710,883.69	2,331,127.17	
PROFILE RVT-09			
A Start	5,711,163.59	2,330,905.66	0+00
A' End	5,710,947.45	2,330,864.61	
B Start	5,711,180.86	2,330,814.77	0+92.52
B' End	5,710,964.72	2,330,773.71	



CROSS SECTIONS:
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 40'

LEGEND			
	MBES AND LIDAR DATA		SLOPE CALCULATED
	SLOPE 2:1		

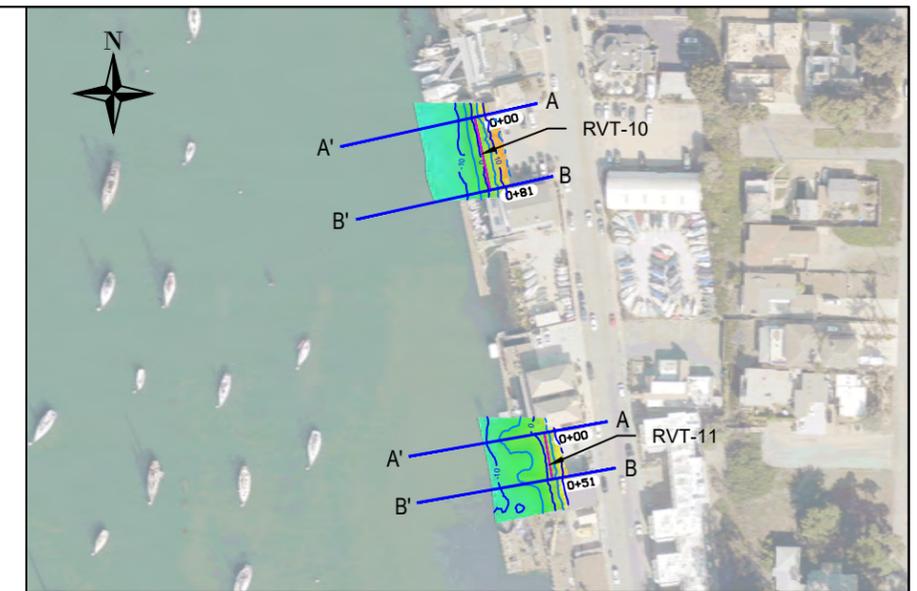
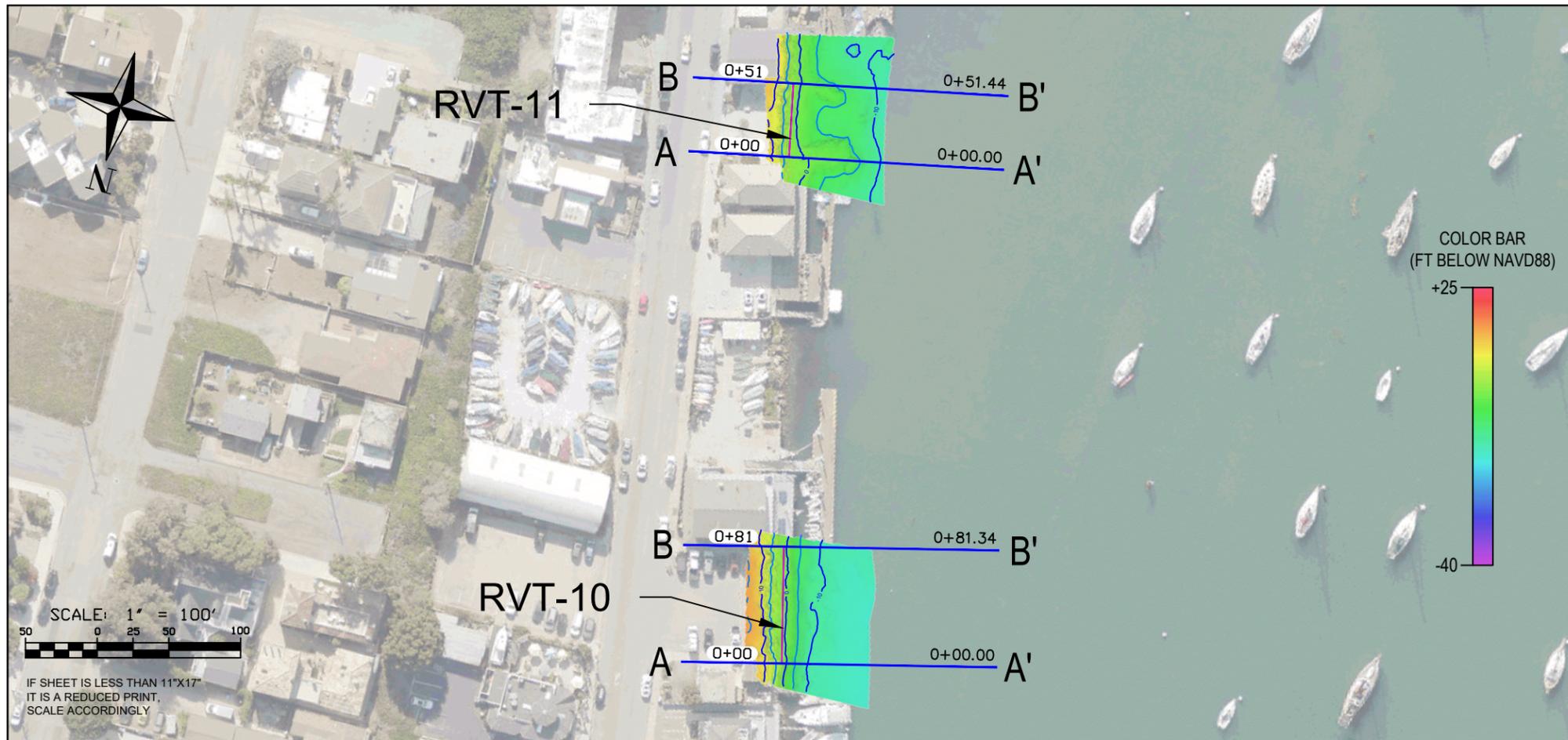
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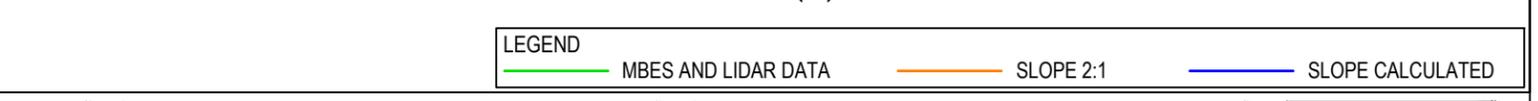
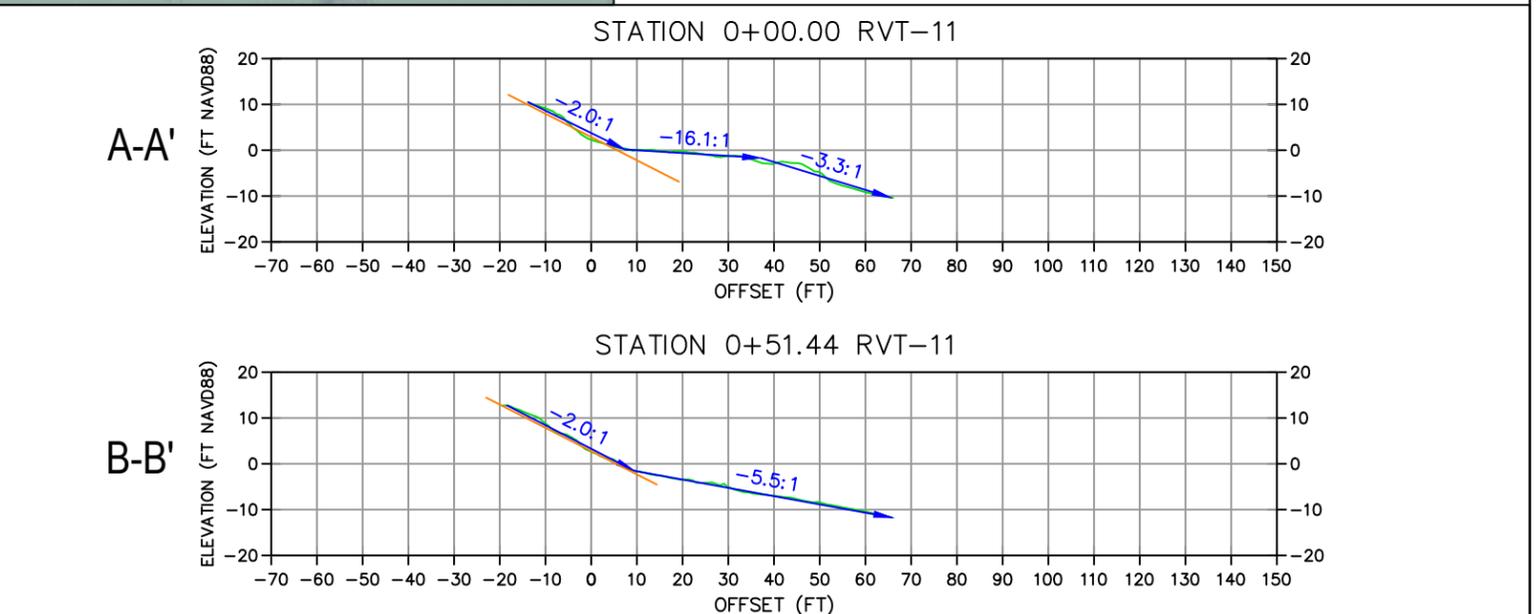
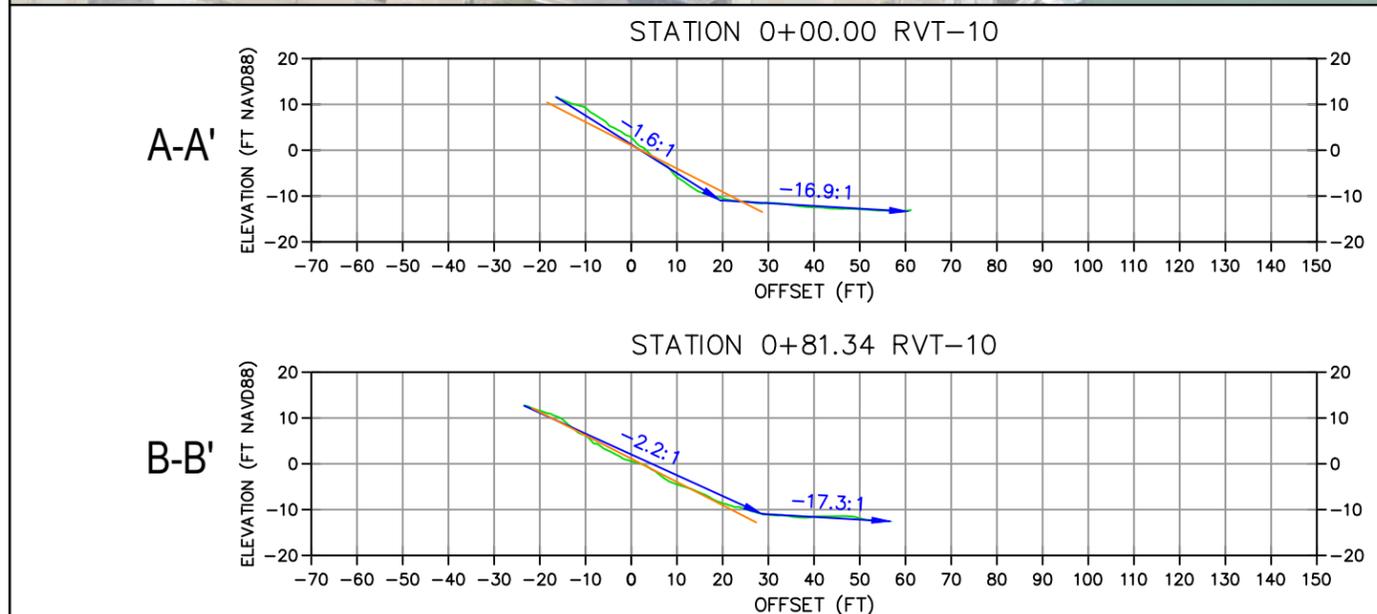
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 FILE NAME: RBRA Morro Bay.dwg

**MORRO BAY REVETMENT SEAWALL
 SURVEY
 MORRO BAY, CA**
PROFILES

Reference Number:
S18



PROFILE	EASTING	NORTHING	PROFILE NUMBER	
PROFILE RVT-10	A Start	5,711,246.71	2,330,560.90	0+00
	A' End	5,711,031.74	2,330,514.14	
	B Start	5,711,264.00	2,330,481.42	0+81.34
	B' End	5,711,049.03	2,330,434.66	
PROFILE RVT-11	A Start	5,711,323.51	2,330,213.80	0+00
	A' End	5,711,106.77	2,330,176.08	
	B Start	5,711,332.33	2,330,163.12	0+51.44
	B' End	5,711,115.59	2,330,125.39	



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 40'

LEGEND			
	MBES AND LIDAR DATA		SLOPE 2:1
	SLOPE CALCULATED		

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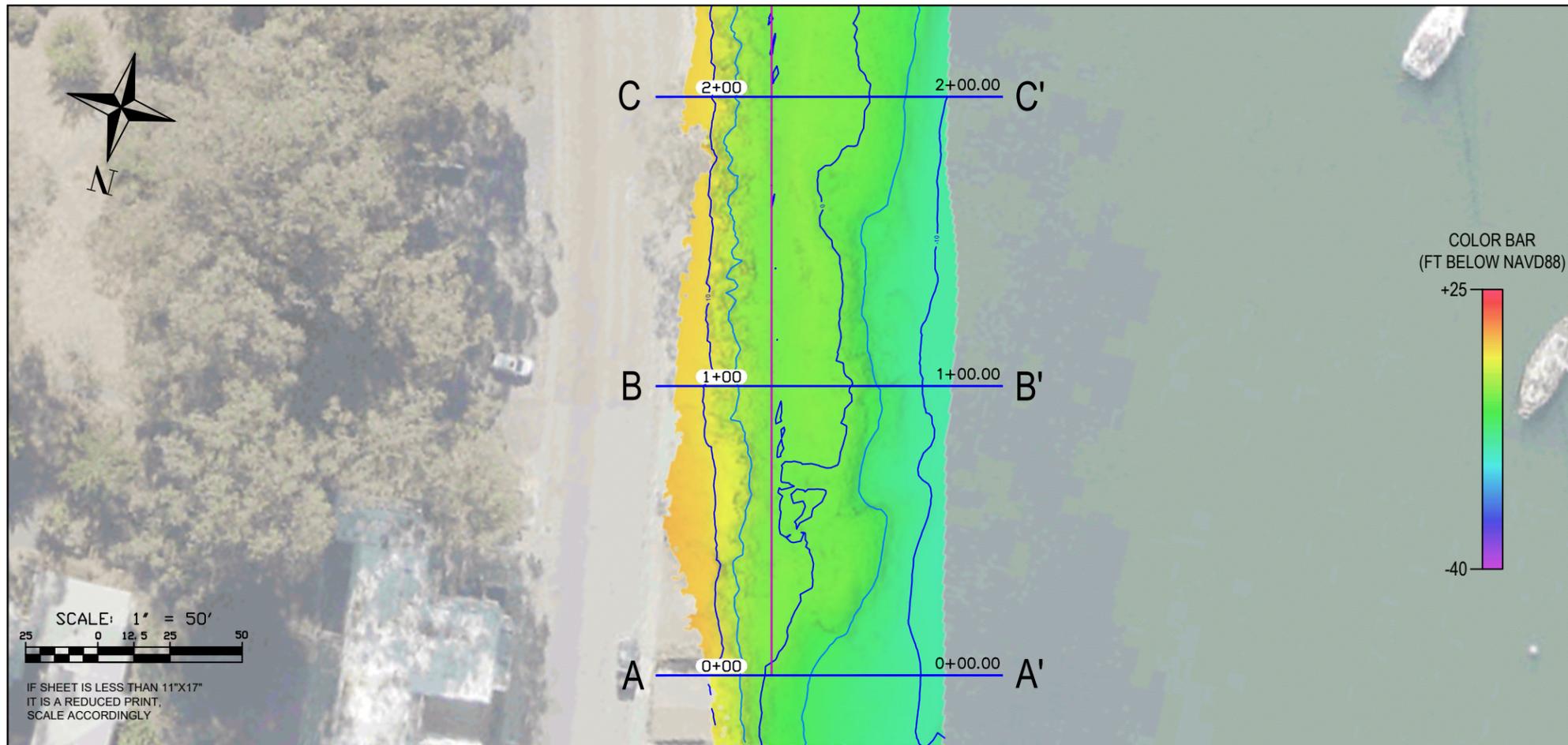
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SURVEY
MORRO BAY, CA**

PROFILES

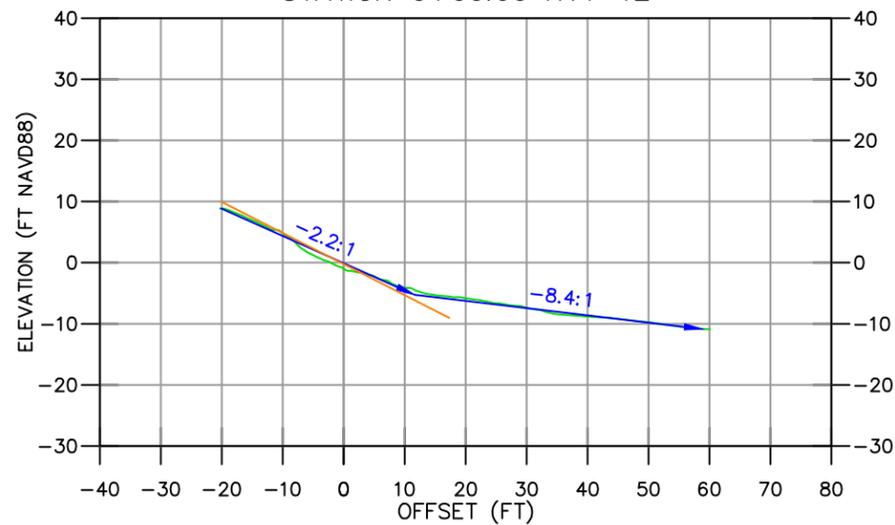
Reference
Number:
S19



PROFILE RVT-12	EASTING	NORTHING	PROFILE NUMBER
A Start	5,711,329.15	2,329,999.28	0+00
A' End	5,711,212.10	2,329,972.81	
B Start	5,711,351.20	2,329,901.75	1+00
B' End	5,711,234.16	2,329,875.28	
C Start	5,711,373.26	2,329,804.21	2+00
C' End	5,711,256.22	2,329,777.74	

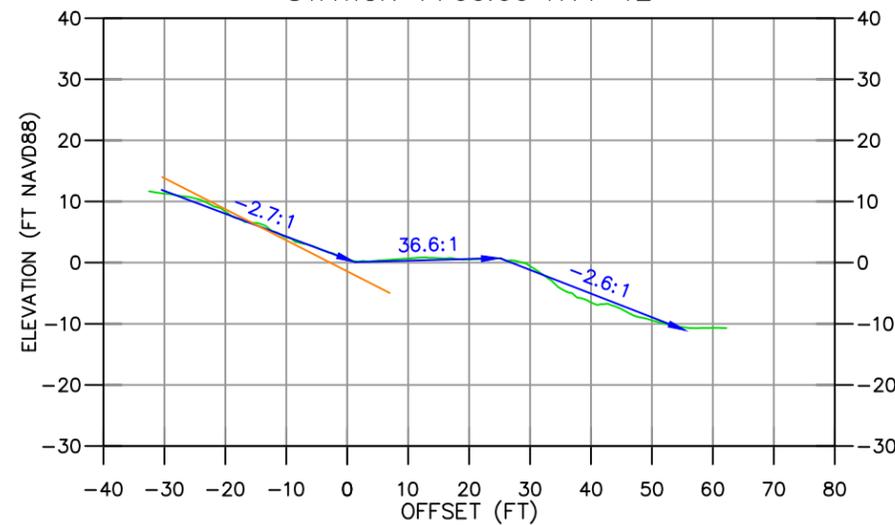
A-A'

STATION 0+00.00 RVT-12



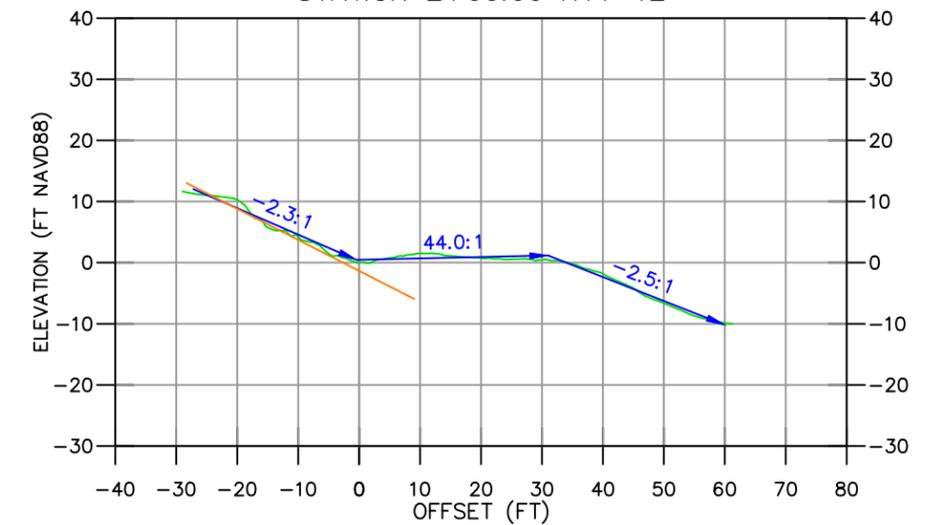
B-B'

STATION 1+00.00 RVT-12



C-C'

STATION 2+00.00 RVT-12



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 30'

LEGEND		
	MBES AND LIDAR DATA	
	SLOPE 2:1	
		SLOPE CALCULATED

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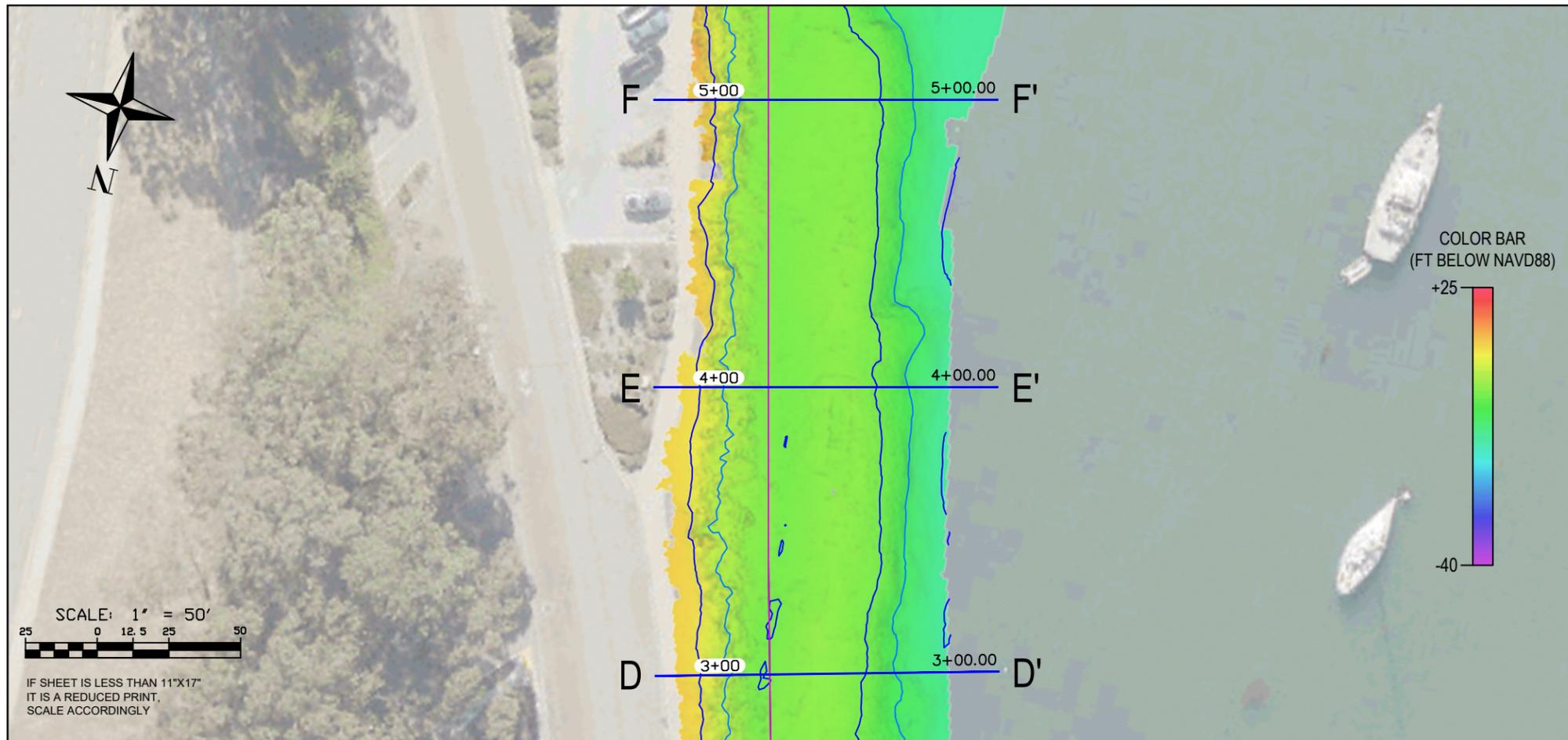
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SURVEY
MORRO BAY, CA**

PROFILES

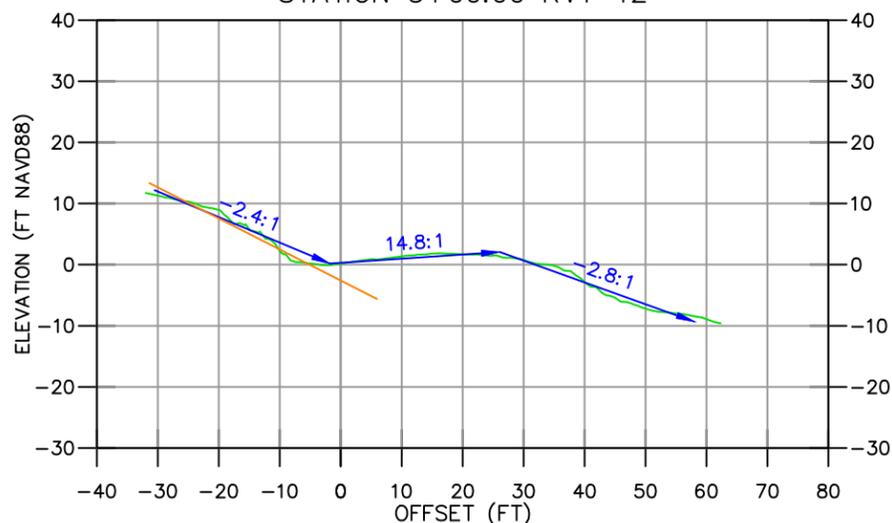
Reference
Number:
S20



PROFILE RVT-12	EASTING	NORTHING	PROFILE NUMBER
D Start	5,711,395.32	2,329,706.67	3+00
D' End	5,711,278.28	2,329,680.20	
E Start	5,711,416.75	2,329,608.50	4+00
E' End	5,711,299.40	2,329,583.46	
F Start	5,711,437.62	2,329,510.70	5+00
F' End	5,711,320.27	2,329,485.66	

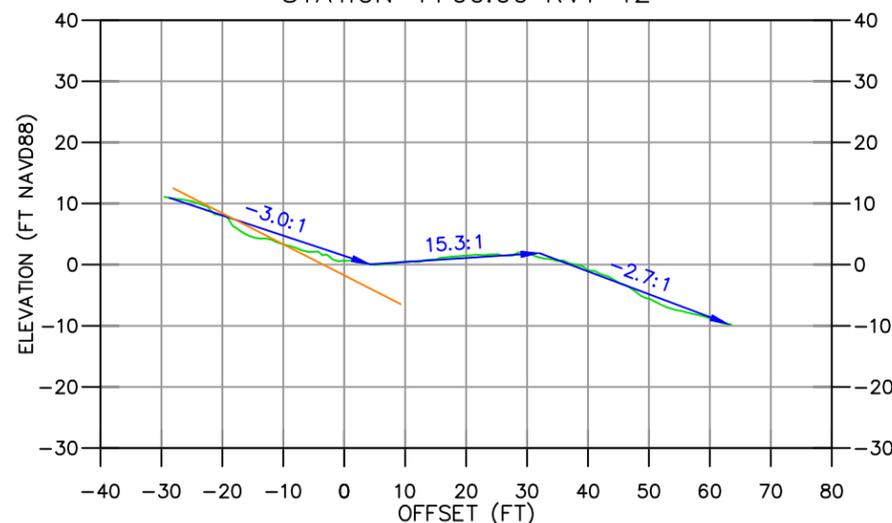
D-D'

STATION 3+00.00 RVT-12



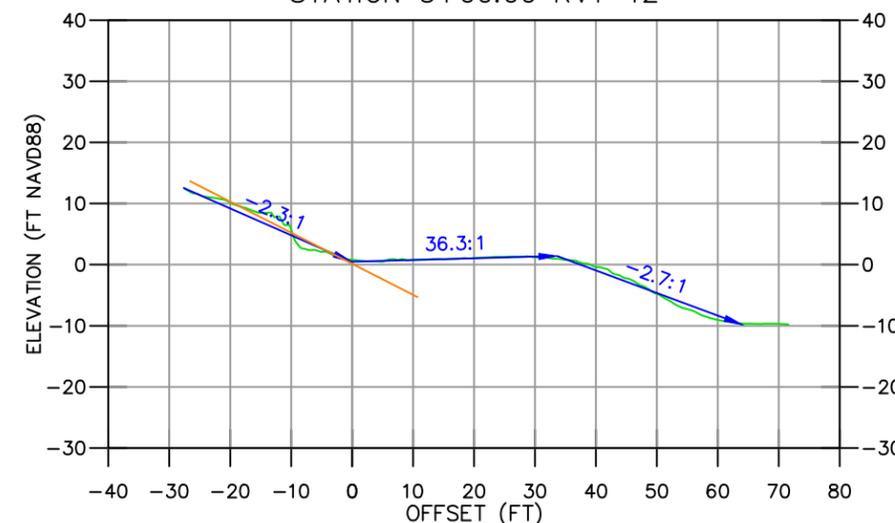
E-E'

STATION 4+00.00 RVT-12



F-F'

STATION 5+00.00 RVT-12



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 30'

LEGEND			
	MBES AND LIDAR DATA		SLOPE CALCULATED
	SLOPE 2:1		

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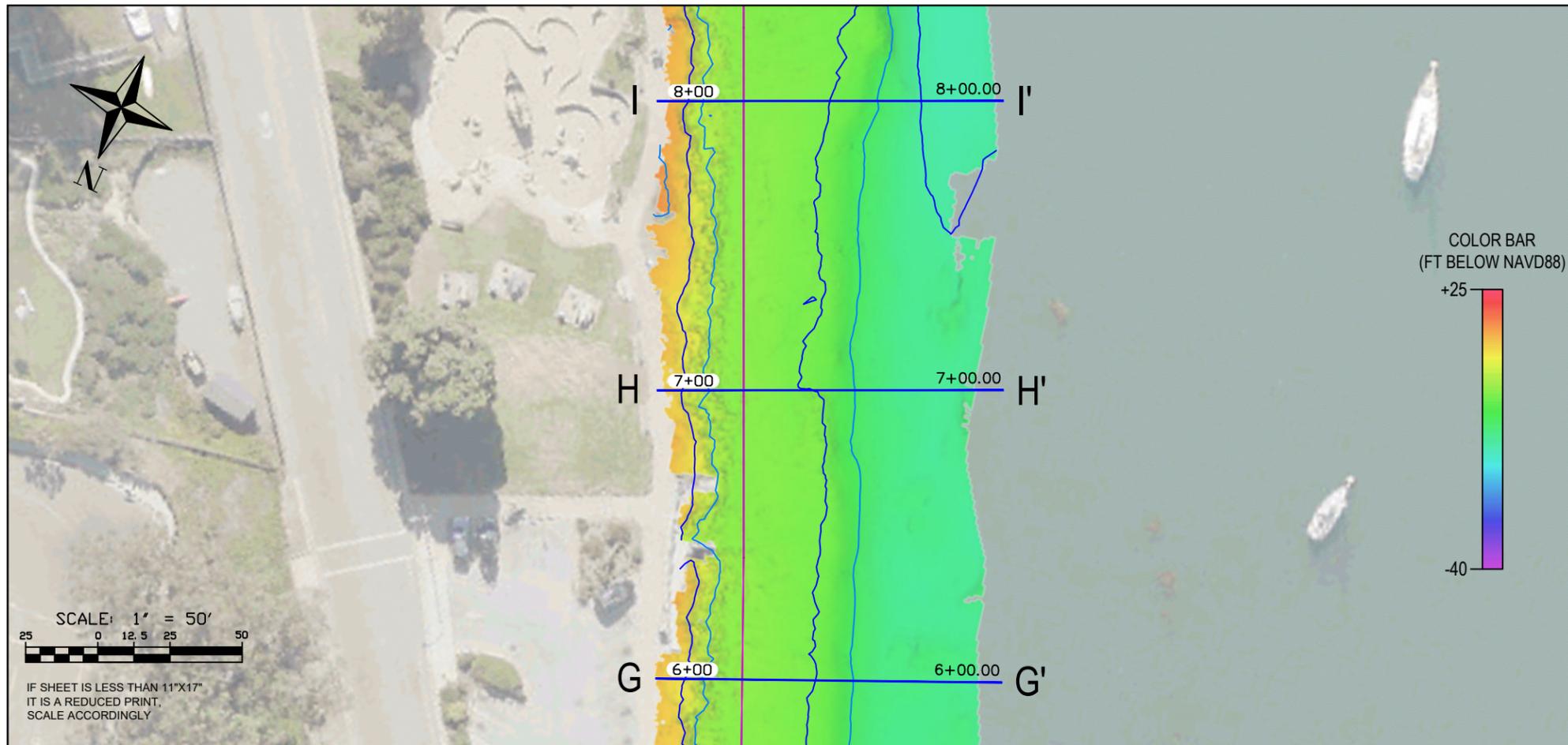
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SURVEY
MORRO BAY, CA
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Number:

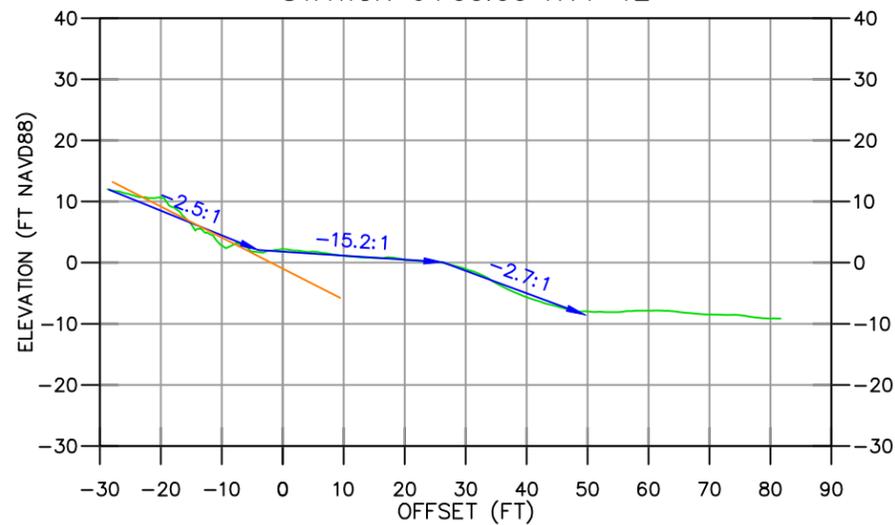
S21



PROFILE RVT-12	EASTING	NORTHING	PROFILE NUMBER
G Start	5,711,448.71	2,329,410.82	6+00
G' End	5,711,331.35	2,329,385.77	
H Start	5,711,470.18	2,329,313.52	7+00
H' End	5,711,353.13	2,329,287.07	
I Start	5,711,492.22	2,329,215.98	8+00
I' End	5,711,375.17	2,329,189.53	

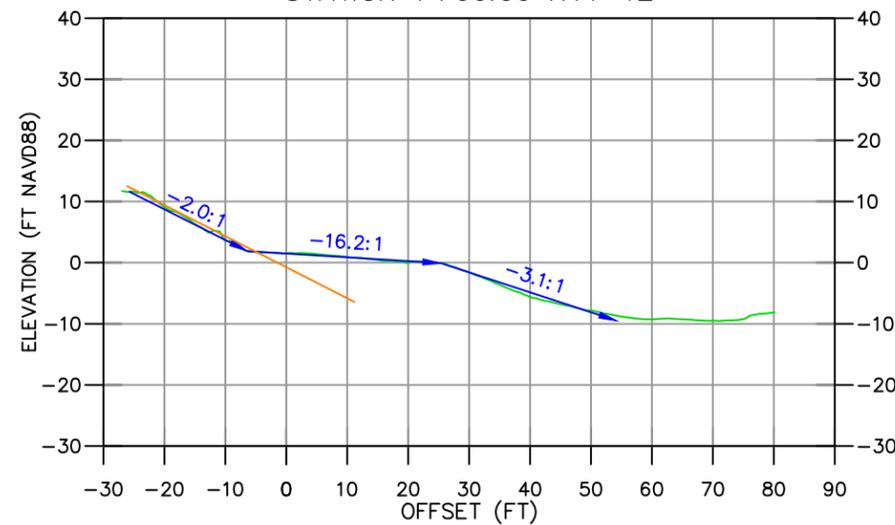
G-G'

STATION 6+00.00 RVT-12



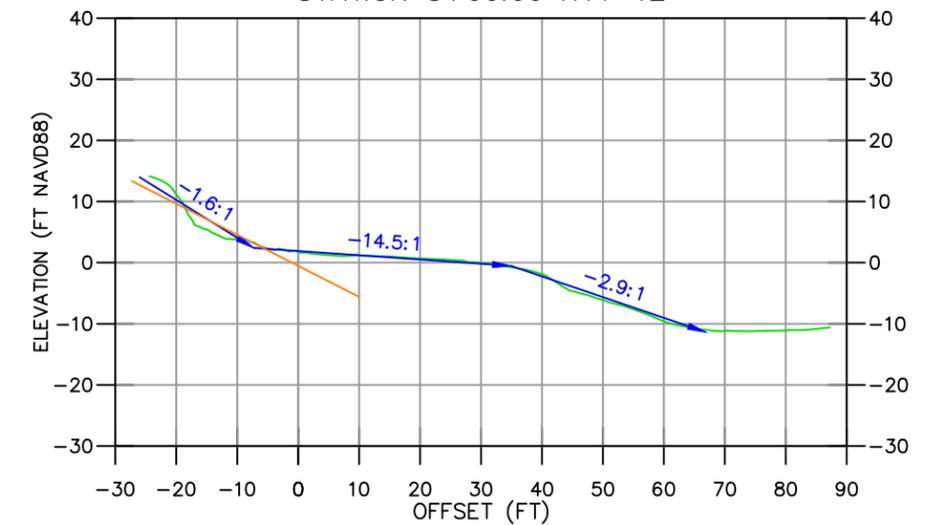
H-H'

STATION 7+00.00 RVT-12



I-I'

STATION 8+00.00 RVT-12



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 30'

LEGEND			
	MBES AND LIDAR DATA		SLOPE CALCULATED
	SLOPE 2:1		

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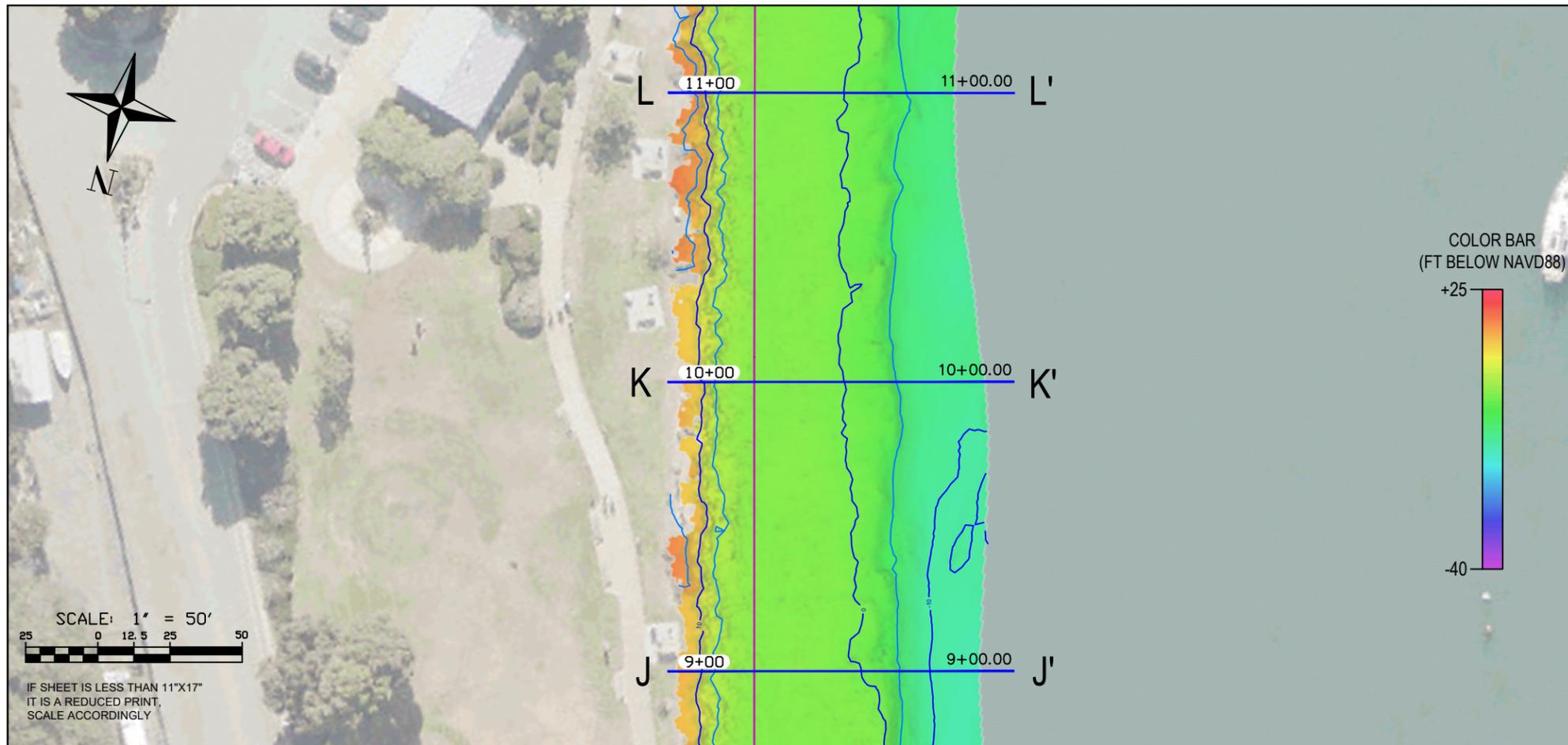
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MORRO BAY, CA
PROFILES

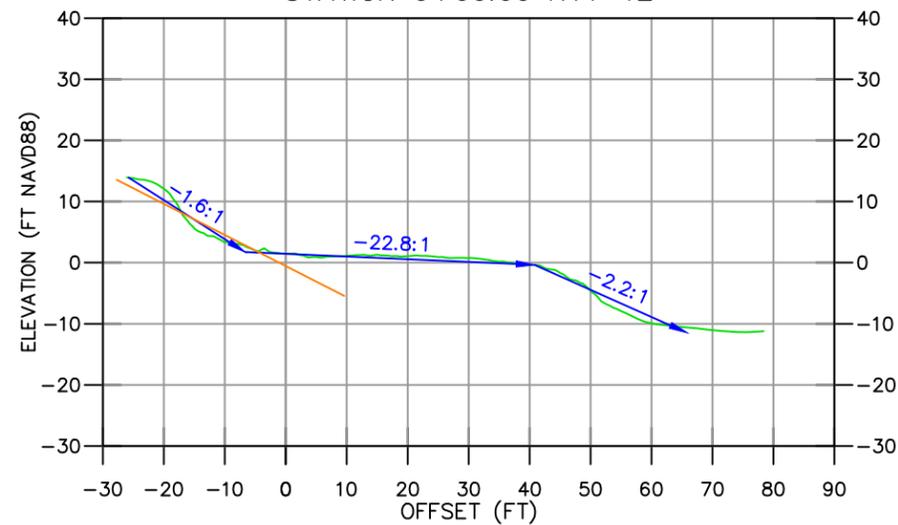
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Number:
S22



PROFILE RVT-12	EASTING	NORTHING	PROFILE NUMBER
J Start	5,711,514.25	2,329,118.43	9+00
J' End	5,711,397.20	2,329,091.99	
K Start	5,711,536.29	2,329,020.89	10+00
K' End	5,711,419.24	2,328,994.45	
L Start	5,711,558.17	2,328,923.26	11+00
L' End	5,711,441.08	2,328,897.03	

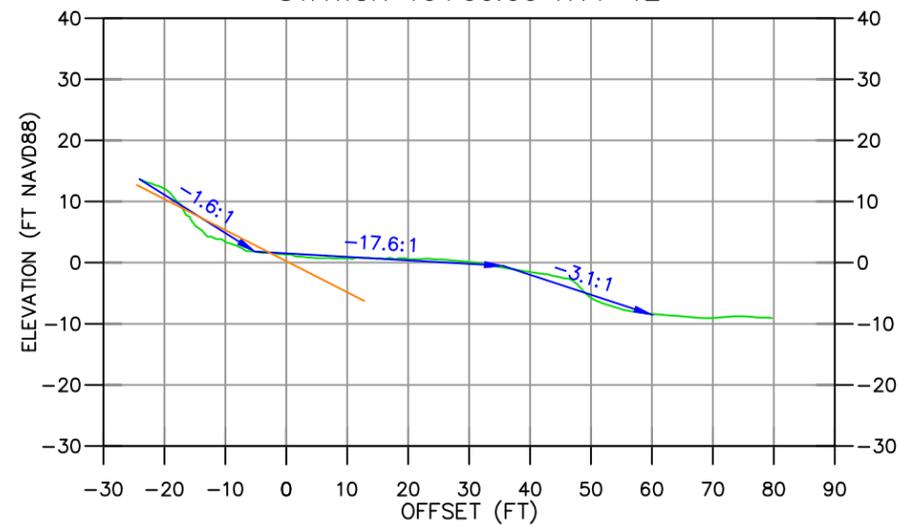
J-J'

STATION 9+00.00 RVT-12



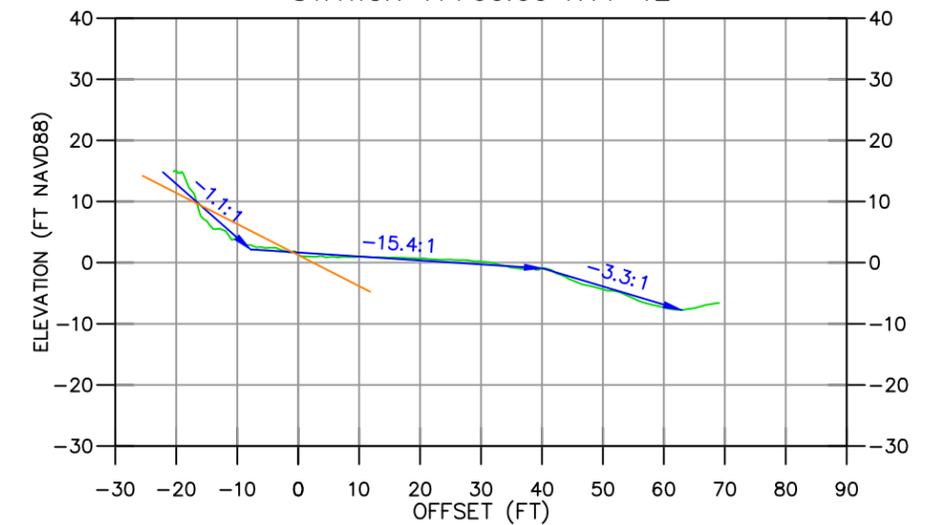
K-K'

STATION 10+00.00 RVT-12



L-L'

STATION 11+00.00 RVT-12



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 30'

LEGEND

— MBES AND LIDAR DATA — SLOPE 2:1 — SLOPE CALCULATED

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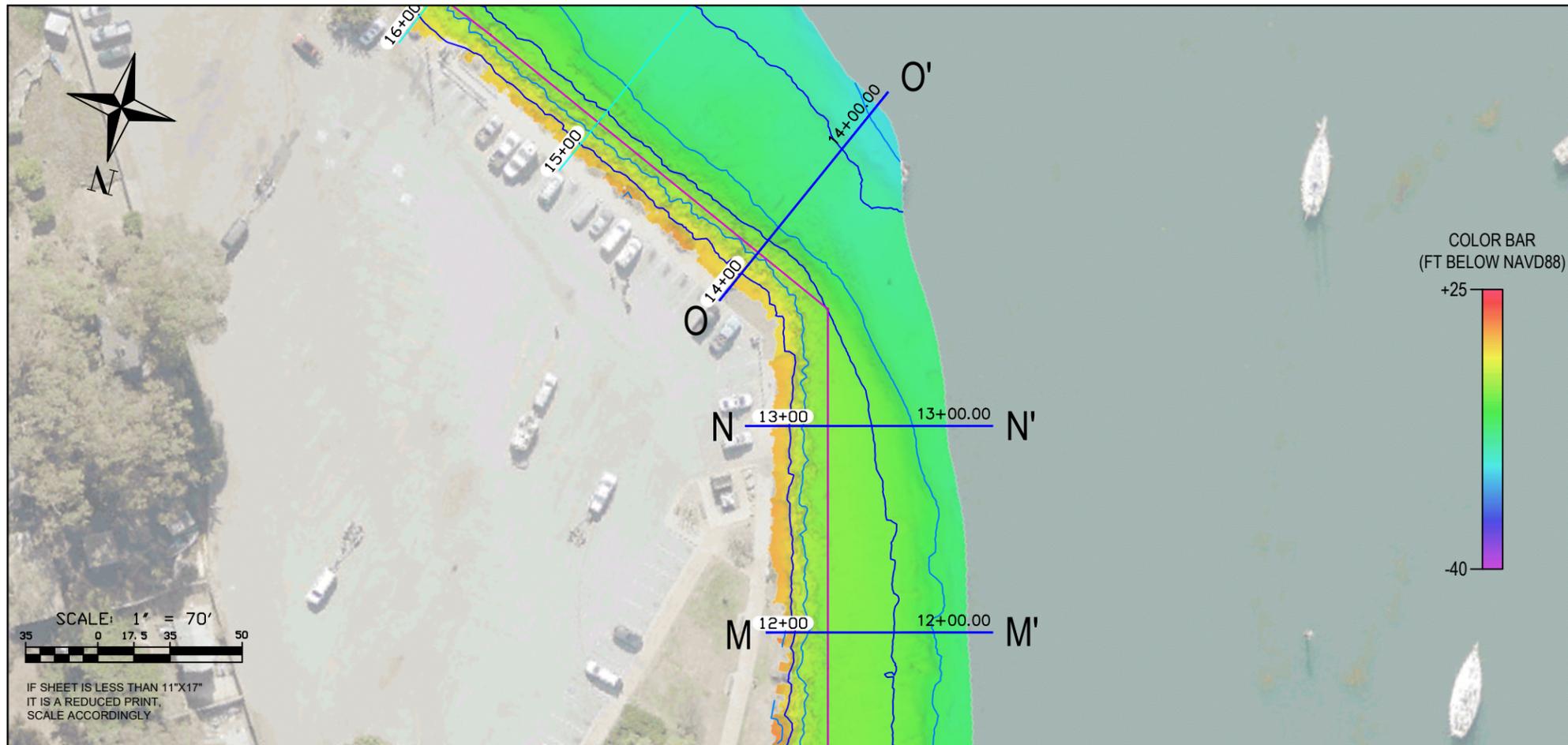
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SURVEY
MORRO BAY, CA

PROFILES

Reference
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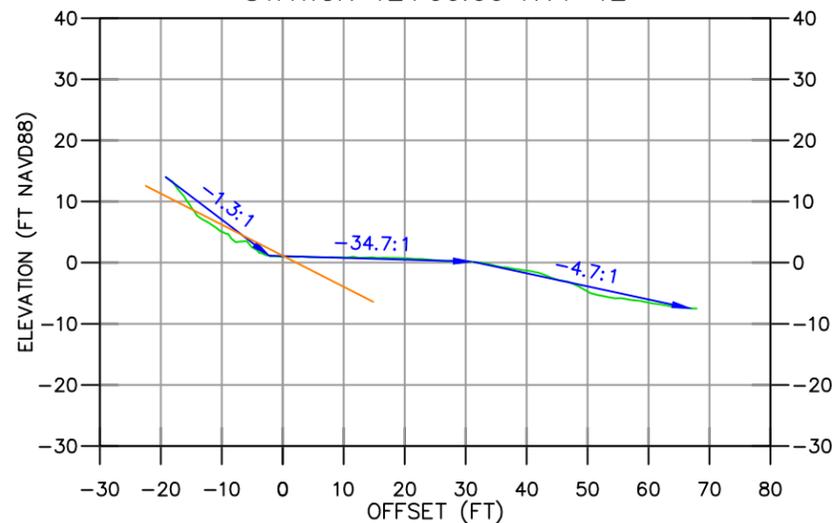
S23



PROFILE RVT-12	EASTING	NORTHING	PROFILE NUMBER
M Start	5,711,580.03	2,328,825.68	12+00
M' End	5,711,472.69	2,328,801.64	
N Start	5,711,611.65	2,328,730.28	13+00
N' End	5,711,494.55	2,328,704.05	
O Start	5,711,637.26	2,328,673.90	14+00
O' End	5,711,579.40	2,328,557.49	

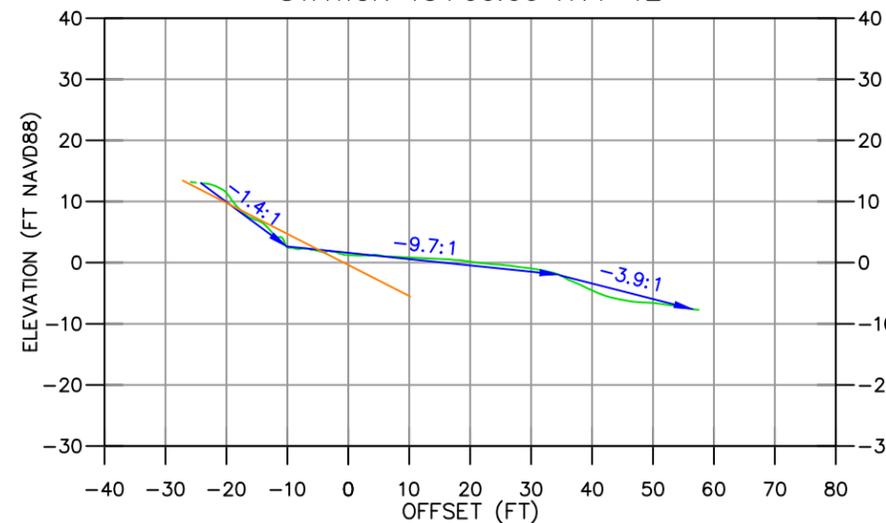
M-M'

STATION 12+00.00 RVT-12



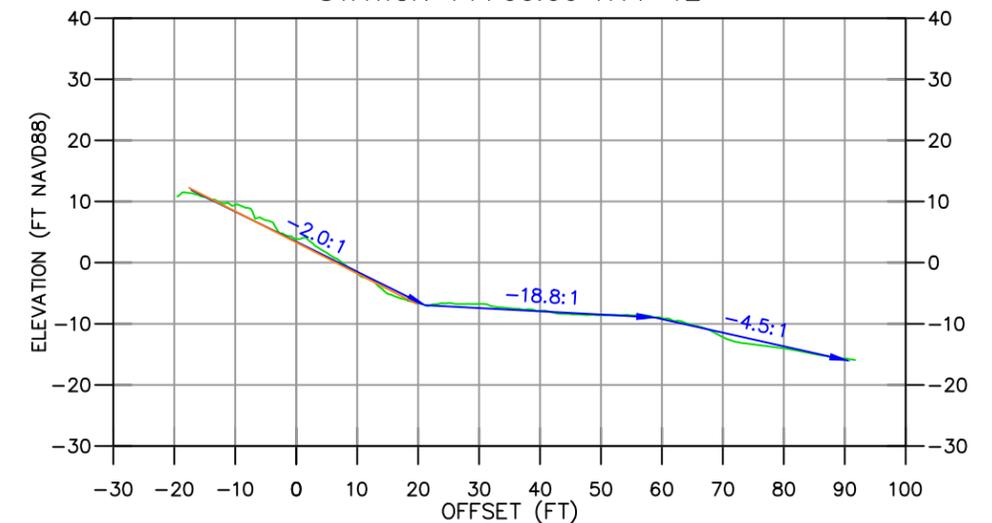
N-N'

STATION 13+00.00 RVT-12



O-O'

STATION 14+00.00 RVT-12



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 30'

LEGEND
— MBES AND LIDAR DATA
— SLOPE 2:1
— SLOPE CALCULATED

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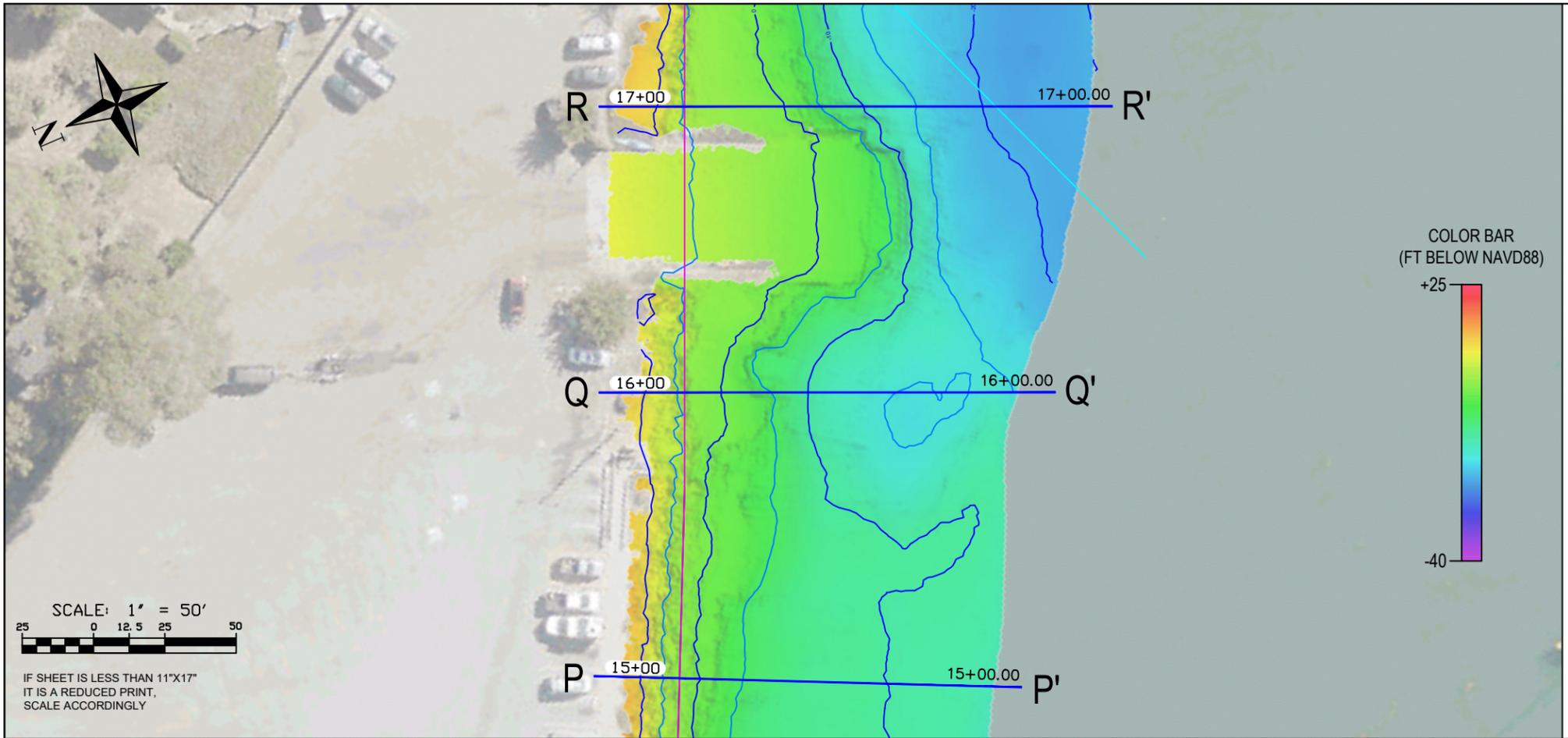
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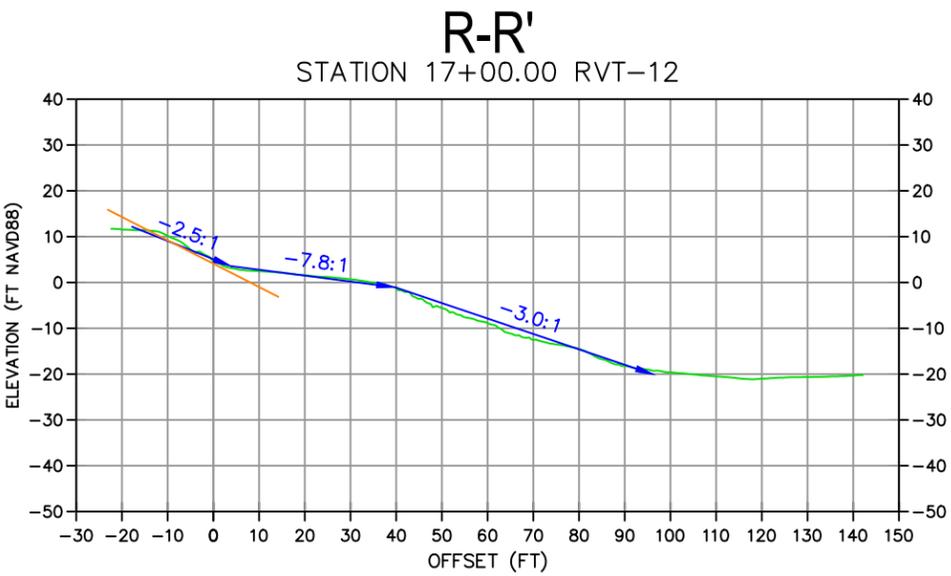
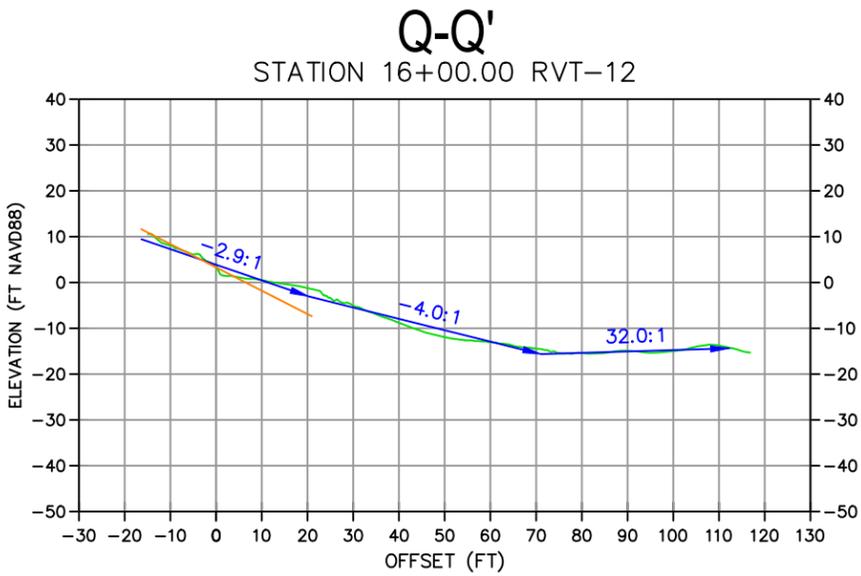
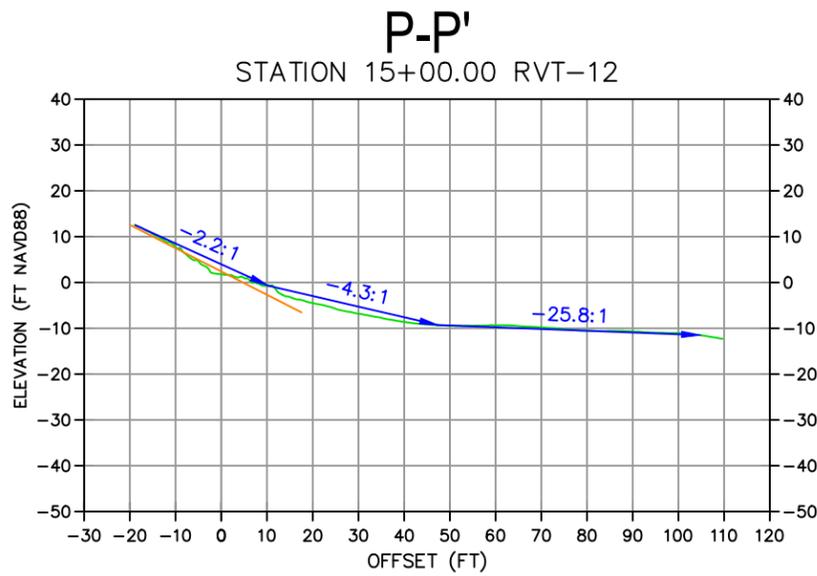
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MORRO BAY REVETMENT SEAWALL
SURVEY
MORRO BAY, CA
PROFILES

Reference
Number:
S24



PROFILE RVT-12	EASTING	NORTHING	PROFILE NUMBER
P Start	5,711,726.81	2,328,629.39	15+00
P' End	5,711,660.05	2,328,495.07	
Q Start	5,711,816.02	2,328,586.01	16+00
Q' End	5,711,748.62	2,328,440.90	
R Start	5,711,906.71	2,328,543.88	17+00
R' End	5,711,830.88	2,328,380.64	



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 40'

LEGEND			
	MBES AND LIDAR DATA		SLOPE CALCULATED
	SLOPE 2:1		

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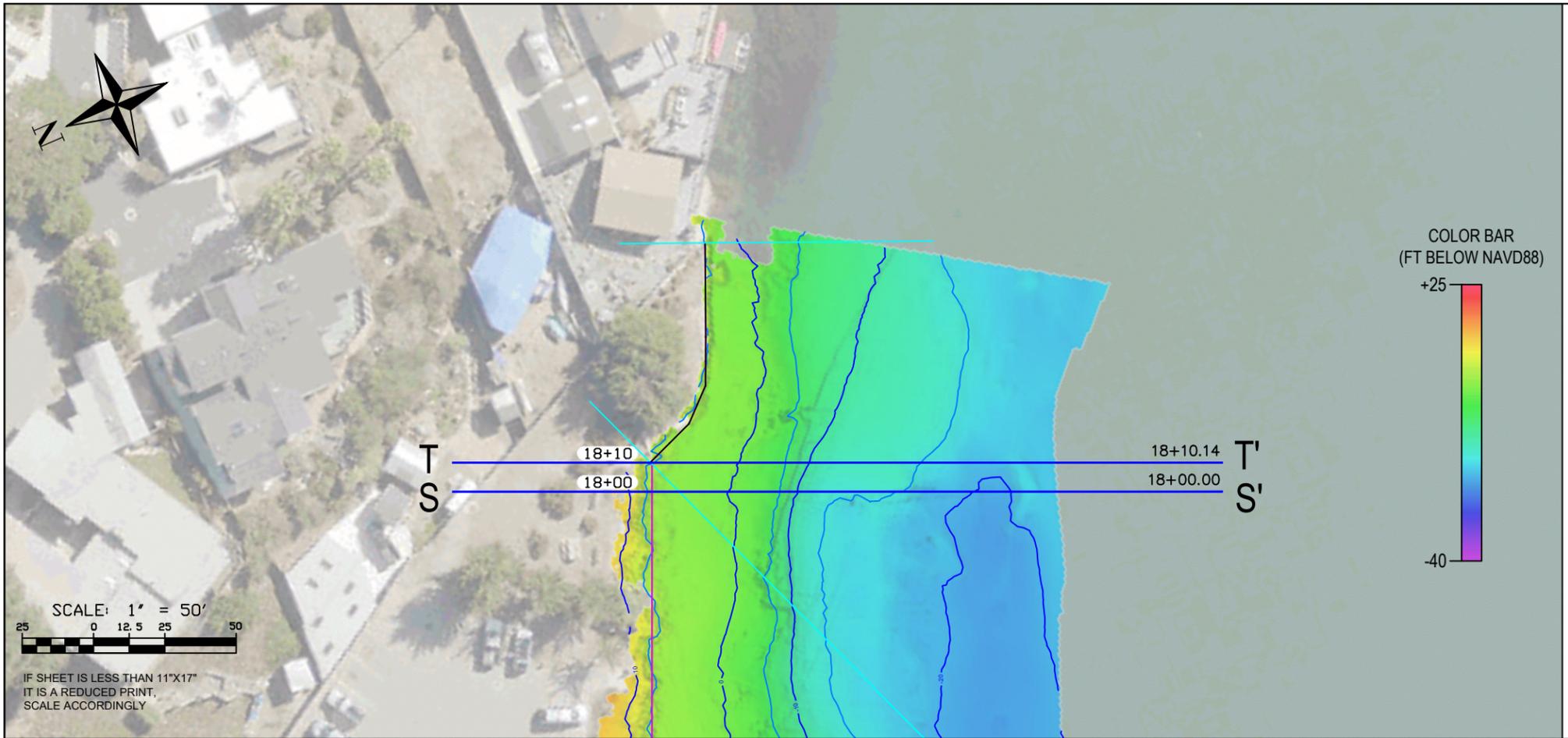
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FILE NAME:
RBRA Morro Bay.dwg

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SURVEY
MORRO BAY, CA**

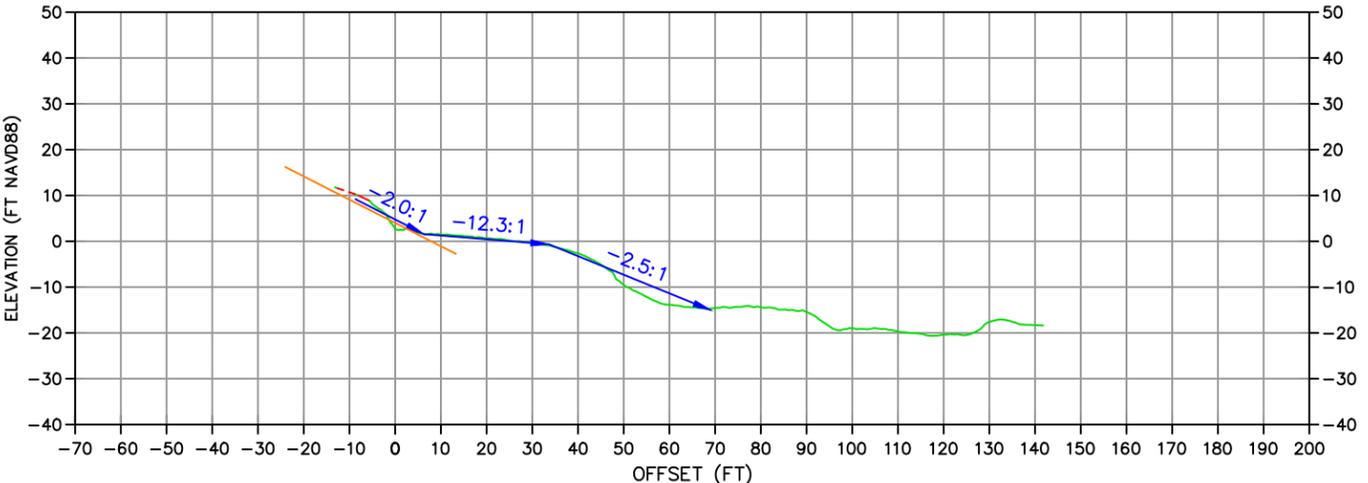
PROFILES

Reference
Number:
S25



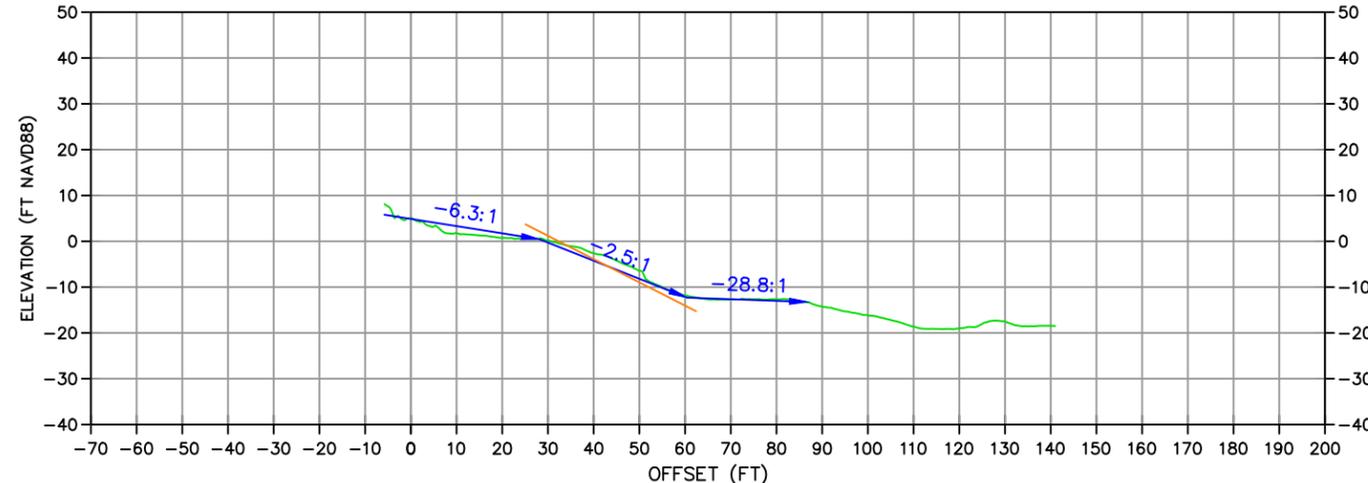
PROFILE RVT-12	EASTING	NORTHING	PROFILE NUMBER
S Start	5,712,014.26	2,328,538.03	18+00
S' End	5,711,900.51	2,328,293.16	
T Start	5,712,023.45	2,328,533.76	18+10.14
T' End	5,711,909.71	2,328,288.89	

S-S'
STATION 18+00.00 RVT-12



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 40'

T-T'
STATION 18+10.14 RVT-12



LEGEND

MBES AND LIDAR DATA	INTERPOLATED SURFACE	SLOPE 2:1	SLOPE CALCULATED
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BRADY

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San Diego, CA 92131
(858) 496-0500

eTrac

ETRAC INC.
637 LINDARO STREET
SUITE 100
SAN RAFAEL, CA 94901
415.462.0421
ETRACINC.COM

SURVEY DATE:
May 21 & 23, 2024

PLOT DATE:
September 13, 2024

DESIGNED BY: JG

CHECKED BY: KJ

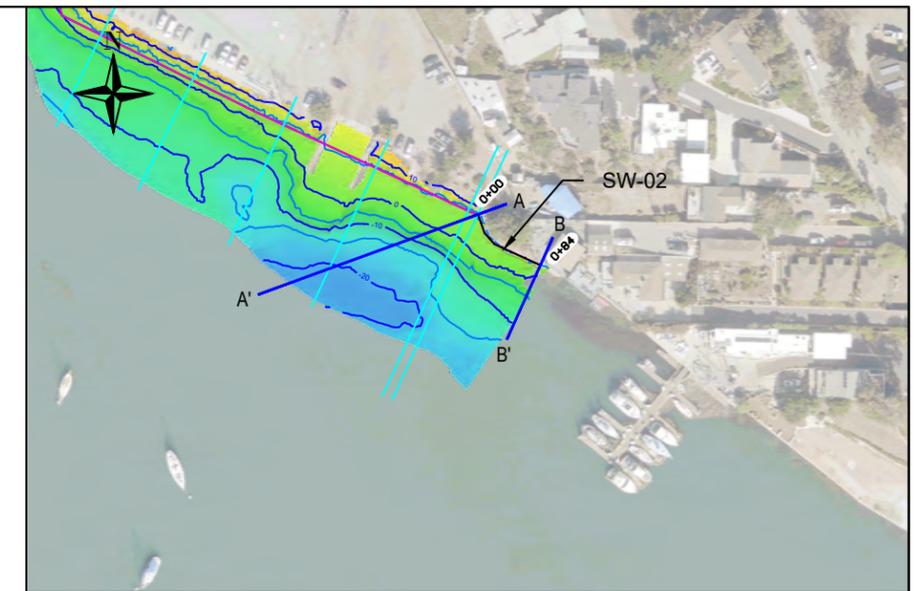
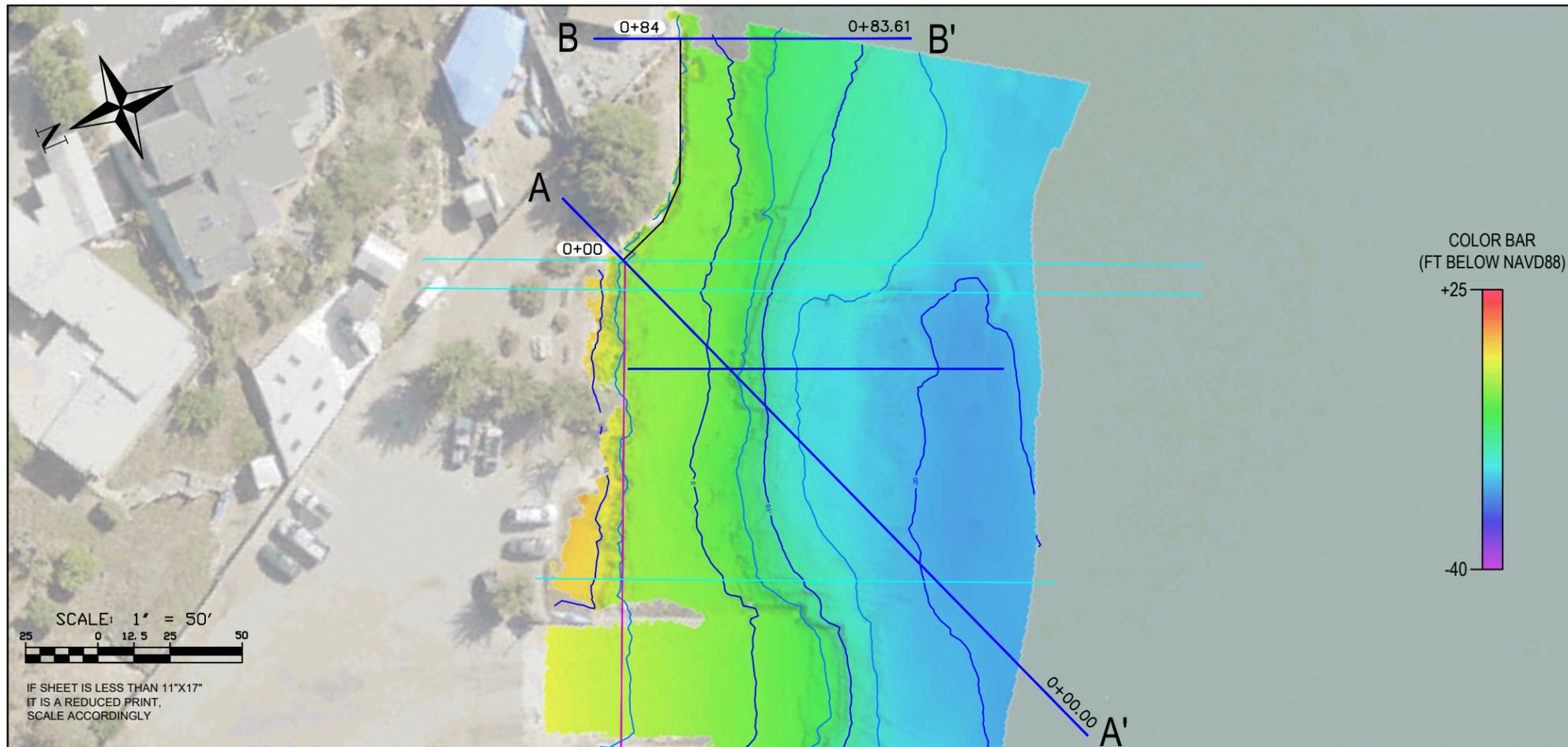
REVISION #

FILE NAME:
RBRA Morro Bay.dwg

**MORRO BAY REVETMENT SEAWALL
SURVEY
MORRO BAY, CA**

PROFILES

Reference
Number:
S26

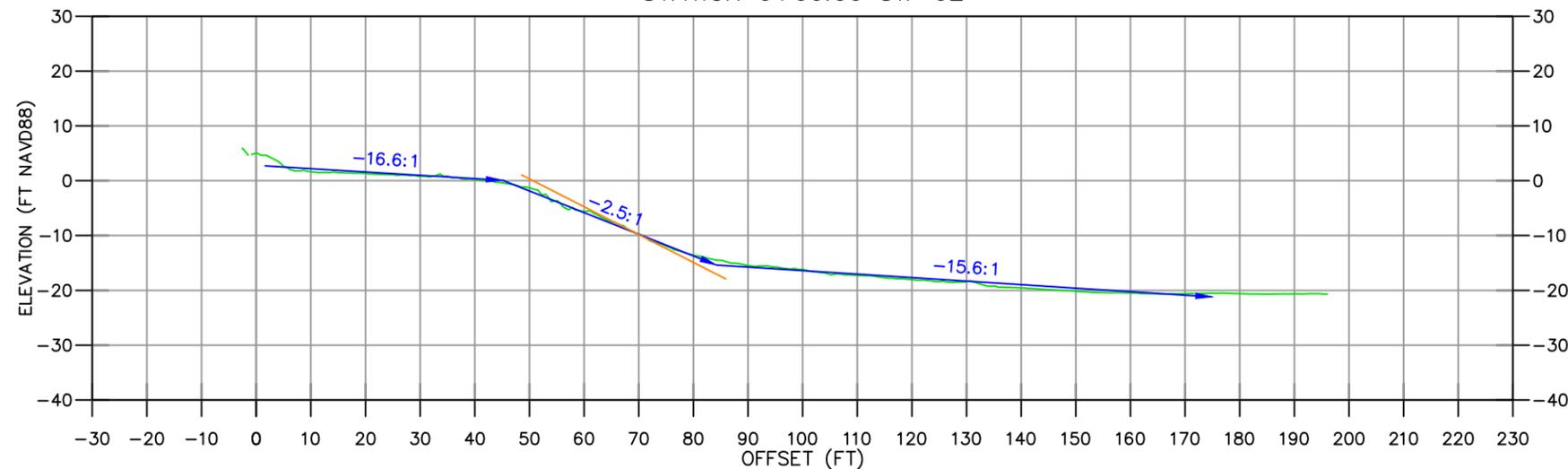


PROFILE SW-02	EASTING	NORTHING	PROFILE NUMBER
A Start	5,712,022.52	2,328,481.06	0+00
A' End	5,711,778.11	2,328,392.37	
B Start	5,712,068.27	2,328,448.39	0+83.61
B' End	5,712,022.74	2,328,348.25	

SCALE: 1" = 50'
 25 0 12.5 25 50
 IF SHEET IS LESS THAN 11"x17"
 IT IS A REDUCED PRINT.
 SCALE ACCORDINGLY

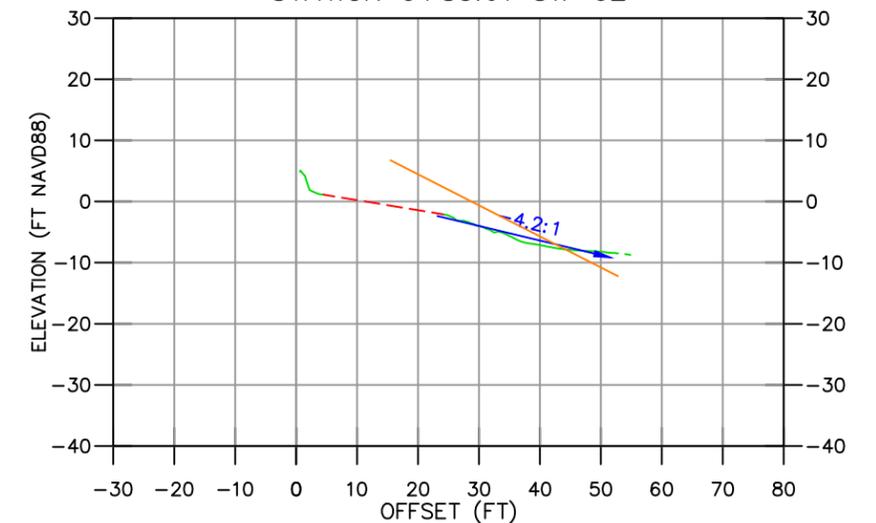
A-A'

STATION 0+00.00 SW-02



B-B'

STATION 0+83.61 SW-02



CROSS SECTIONS:
 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 30'

LEGEND			
	MBES AND LIDAR DATA		INTERPOLATED SURFACE
	SLOPE 2:1		SLOPE CALCULATED

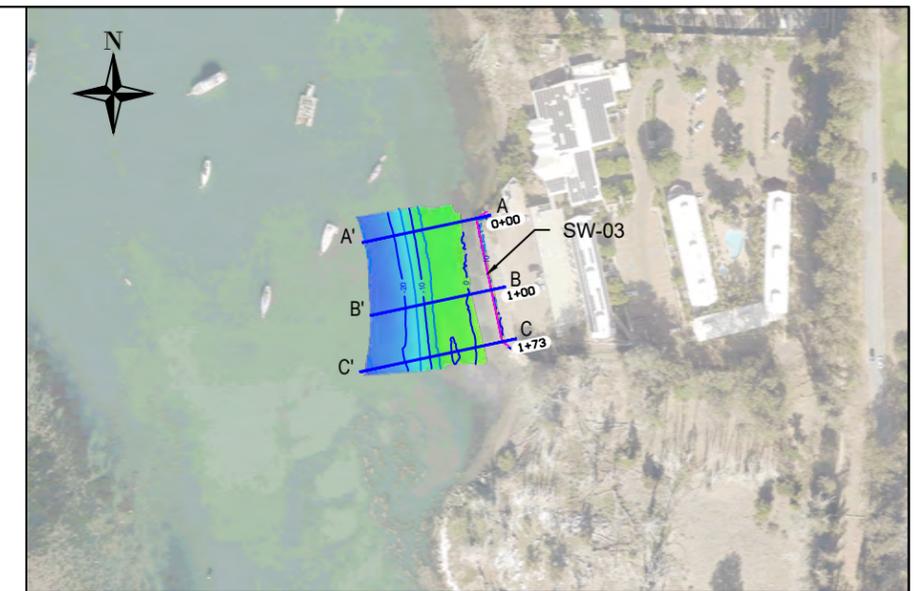
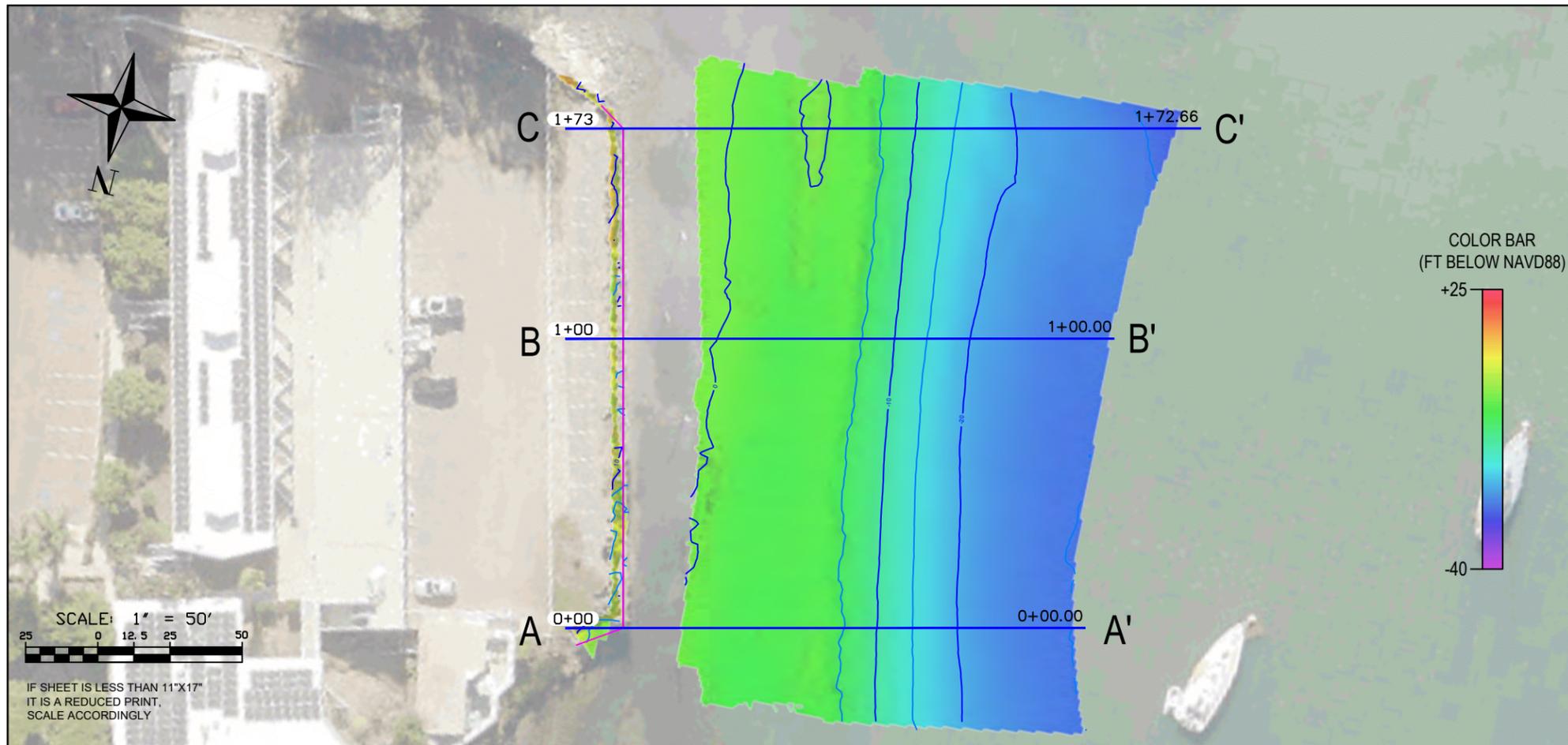
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 415.462.0421
 ETRACINC.COM

SURVEY DATE: May 21 & 23, 2024
 PLOT DATE: September 13, 2024
 DESIGNED BY: JG
 CHECKED BY: KJ
 REVISION #
 FILE NAME: RBRA Morro Bay.dwg

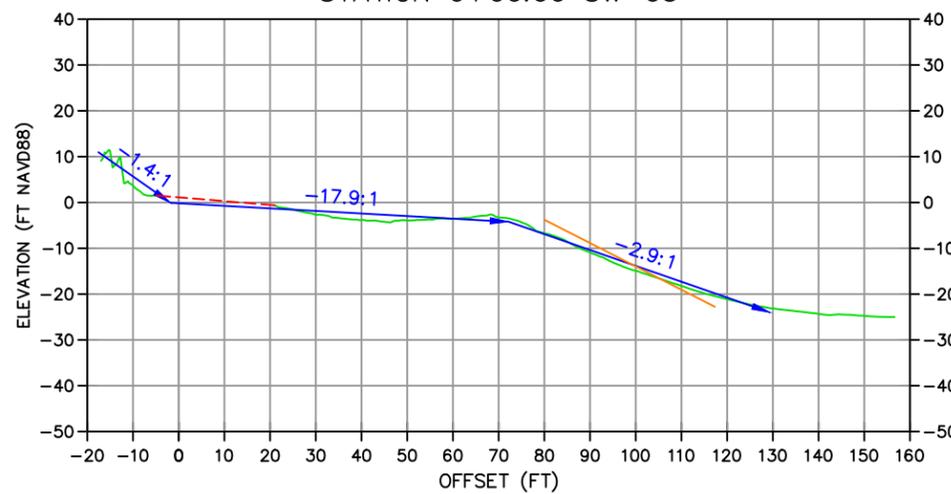
**MORRO BAY REVETMENT SEAWALL
 SURVEY
 MORRO BAY, CA**
PROFILES

Reference
 Number:
S27

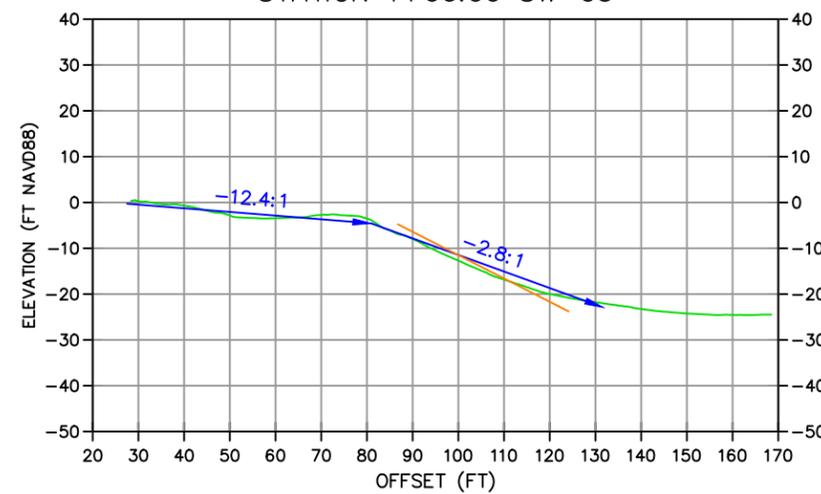


PROFILE SW-03	EASTING	NORTHING	PROFILE NUMBER
A Start	5,713,261.36	2,326,792.21	0+00
A' End	5,713,085.22	2,326,755.15	
B Start	5,713,281.95	2,326,694.35	1+00
B' End	5,713,096.03	2,326,655.23	
C Start	5,713,296.91	2,326,623.25	1+72.66
C' End	5,713,081.63	2,326,577.95	

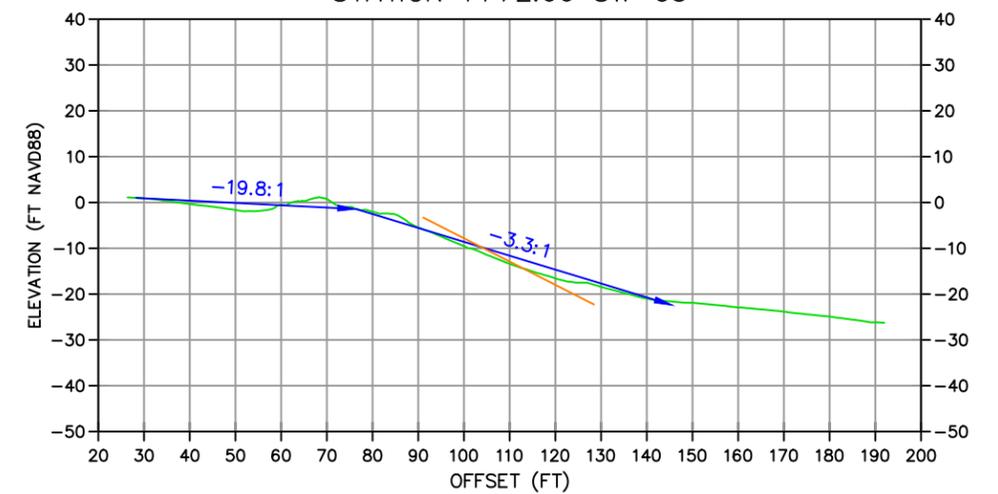
A-A'
STATION 0+00.00 SW-03



B-B'
STATION 1+00.00 SW-03



C-C'
STATION 1+72.66 SW-03



CROSS SECTIONS:
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 40'

LEGEND			
	MBES AND LIDAR DATA		INTERPOLATED SURFACE
	SLOPE 2:1		SLOPE CALCULATED

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SURVEY DATE: May 21 & 23, 2024
PLOT DATE: September 13, 2024
DESIGNED BY: JG
CHECKED BY: KJ
REVISION #
FILE NAME: RBRA Morro Bay.dwg

**MORRO BAY REVETMENT SEAWALL
SURVEY
MORRO BAY, CA**
PROFILES

Reference
Number:
S28

SLOPE VALUES CALCULATED				
CROSS SECTION STATION	SLOPE VALUE 1	SLOPE VALUE 2	SLOPE VALUE 3	AVERAGE SLOPE
0+00.00 RVT-01	5.7:1	2.9:1		5:1
1+00.00 RVT-01	54.1:1	3.7:1	69.9:1	43:1
2+00.00 RVT-01	18.7:1	2.9:1	39.7:1	21:1
3+00.00 RVT-01	34.0:1	2.7:1	44.5:1	27:1
4+00.00 RVT-01	22.8:1	2.8:1	44.8:1	24:1
5+00.00 RVT-01	3.1:1	77.1:1		40:1
6+00.00 RVT-01	14.9:1	1.6:1	45.2:1	21:1
7+00.00 RVT-01	12.3:1	2.3:1	82.7:1	32:1
7+39.78 RVT-01	10.4:1	2.4:1	29.4:1	14:1
0+00.00 RVT-02	-1.7:1			-2:1
1+00.00 RVT-02	-3.1:1			-3:1
2+00.00 RVT-02	-3.2:1	-78.8:1		-41:1
3+00.00 RVT-02	-4.1:1	-55.1:1		-30:1
4+00.00 RVT-02	-3.4:1	-5.5:1		-4:1
5+00.00 RVT-02	-2.5:1	-12.8:1		-8:1
6+00.00 RVT-02	-3.1:1	22.4:1	-3.1:1	5:1
7+00.00 RVT-02	-1.5:1	65.6:1	-2.8:1	20:1
8+00.00 RVT-02	-1.5:1	87.4:1	-3.2:1	27:1
9+00.00 RVT-02	-1.5:1	-24.6:1	-3.6:1	-10:1
10+00.00 RVT-02	-1.5:1	-27.0:1	-2.8:1	-11:1
11+00.00 RVT-02	-1.2:1	55.9:1	-3.3:1	17:1
12+00.00 RVT-02	-1.6:1	-18.3:1	-5.0:1	-8:1
13+00.00 RVT-02	-1.9:1	-33.6:1	-4.1:1	-13:1
14+00.00 RVT-02	-1.5:1	-12.3:1	-3.7:1	-6:1
15+00.00 RVT-02	-1.7:1	-26.5:1	-4.2:1	-11:1
16+00.00 RVT-02	-2.1:1	-28.3:1	-3.4:1	-11:1
17+00.00 RVT-02	-1.8:1	-8.7:1	-3.4:1	-5:1
18+00.00 RVT-02	-1.6:1	-21.0:1	-2.6:1	-9:1
19+00.00 RVT-02	-1.9:1	-29.1:1	-3.9:1	-12:1
20+00.00 RVT-20	-6.4:1	-33.1:1	-3.1:1	-14:1

SLOPE VALUES CALCULATED				
CROSS SECTION STATION	SLOPE VALUE 1	SLOPE VALUE 2	SLOPE VALUE 3	AVERAGE SLOPE
21+00.00 RVT-02	-1.5:1	-10.5:1	-2.1:1	-5:1
22+00.00 RVT-02	-1.6:1	-7.1:1	-2.4:1	-4:1
23+00.00 RVT-02	-1.8:1	-11.2:1	-2.1:1	-5:1
24+00.00 RVT-02	-1.8:1	-10.8:1	-2.4:1	-5:1
24+14.39 RVT-02	-1.9:1	-10.2:1	-2.4:1	-5:1
0+00.00 RVT-03	-1.9:1	26.6:1		13:1
1+00.00 RVT-03	-2.2:1	-16.1:1		-9:1
1+35.83 RVT-03	-3.1:1	-10.1:1		-7:1
0+00.00 SW-01	-3.0:1	-10.1:1		-7:1
0+86.64 SW-01	-2.2:1	-23.2:1		-13:1
0+00.00 RVT-04	-2.4:1	-19.0:1		-11:1
1+00.00 RVT-04	-1.8:1	-7.3:1		-5:1
2+00.00 RVT-04	-2.3:1	-11.9:1		-7:1
3+00.00 RVT-04	-3.6:1	-14.8:1		-10:1
4+00.00 RVT-04	-1.6:1	-10.8:1		-7:1
5+00.00 RVT-04	-1.6:1	-7.4:1		-5:1
5+18.35 RVT-04	-1.9:1	-6.0:1		-4:1
0+00.00 RVT-05	-2.2:1	-12.4:1		-7:1
1+00.00 RVT-05	-1.6:1	-8.4:1		-5:1
2+00.00 RVT-05	-1.6:1	-14.0:1		-8:1
2+23.45 RVT-05	-1.7:1	-17.0:1		-10:1
0+00.00 RVT-06	-1.7:1	-26.9:1		-15:1
0+49.10 RVT-06	-1.6:1	-33.4:1		-18:1
0+00.00 RVT-07	-1.8:1	-19.0:1		-11:1
0+56.22 RVT-07	-2.3:1	-12.1:1		-7:1
0+00.00 RVT-08	-2.1:1	-15.6:1		-9:1
0+67.78 RVT-08	-1.8:1	-33.9:1		-18:1
0+00.00 RVT-09	-1.5:1	-11.8:1		-7:1
0+92.52 RVT-09	-1.7:1	-8.1:1		-5:1
0+00.00 RVT-10	-1.6:1	-16.9:1		-10:1

SLOPE VALUES CALCULATED				
CROSS SECTION STATION	SLOPE VALUE 1	SLOPE VALUE 2	SLOPE VALUE 3	AVERAGE SLOPE
0+81.34 RVT-10	-2.2:1	-17.3:1		-10:1
0+00.00 RVT-11	-2.0:1	-16.1:1	-3.3:1	-7:1
0+51.44 RVT-11	-2.0:1	-5.5:1		-4:1
0+00.00 RVT-12	-2.2:1	-8.4:1		-5:1
1+00.00 RVT-12	-2.7:1	36.6:1	-2.6:1	10:1
2+00.00 RVT-12	-2.3:1	44.0:1	-2.5:1	13:1
3+00.00 RVT-12	-2.4:1	14.8:1	-2.8:1	3:1
4+00.00 RVT-12	-3.0:1	15.3:1	-2.7:1	3:1
5+00.00 RVT-12	-2.3:1	36.3:1	-2.7:1	10:1
6+00.00 RVT-12	-2.5:1	-15.2:1	-2.7:1	-7:1
7+00.00 RVT-12	-2.0:1	-16.2:1	-3.1:1	-7:1
8+00.00 RVT-12	-1.6:1	-14.5:1	-2.9:1	-6:1
9+00.00 RVT-12	-1.6:1	-22.8:1	-2.2:1	-9:1
10+00.00 RVT-12	-1.6:1	-17.6:1	-3.1:1	-8:1
11+00.00 RVT-12	-1.1:1	-15.4:1	-3.3:1	-6:1
12+00.00 RVT-12	-1.3:1	-34.7:1	-4.7:1	-14:1
13+00.00 RVT-12	-1.4:1	-9.7:1	-3.9:1	-5:1
14+00.00 RVT-12	-2.0:1	-18.8:1	-4.5:1	-8:1
15+00.00 RVT-12	-2.2:1	-4.3:1	-25.8:1	-11:1
16+00.00 RVT-12	-2.9:1	-4.0:1	32.0:1	8:1
17+00.00 RVT-12	-2.5:1	-7.8:1	-3.0:1	-5:1
18+00.00 RVT-12	-2.0:1	-12.3:1	-2.5:1	-5:1
18+10.14 RVT-12	-6.3:1	-2.5:1	-28.8:1	-13:1
0+00.00 SW-02	-16.6:1	-2.5:1	-15.6:1	-12:1
0+83.61 SW-02	-4.2:1			-4:1
0+00.00 SW-03	-1.4:1	-17.9:1	-2.9:1	-7:1
1+00.00 SW-03	-12.4:1	-2.8:1		-8:1
1+72.66 SW-03	-19.8:1	-3.3:1		-12:1



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MORRO BAY REVETMENT SEAWALL
SURVEY
MORRO BAY, CA

SLOPE VALUES CALCULATED TABLE

Reference Number:
S29