

**US Army Corps
of Engineers®**
915 WILSHIRE BLVD.

SAN DIEGO COUNTY, CALIFORNIA ENCINITAS AND SOLANA BEACH BEACH NOURISHMENT

SOLICITATION NO.: W9127N23B00XX
CONTRACT NO.:
ISSUE DATE:



**S Army Corps
of Engineers®**

[illegible]

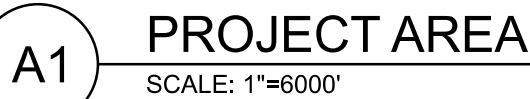
U.S. ARMY CORPS OF ENGINEERS LAW OFFICE 915 WILSHIRE BLVD. LOS ANGELES, CALIFORNIA 90017	C. LODGE DRAWN BY: C. LODGE BY: M. WESLEY SUBMITTED BY: DISTRICT FILE NUMBER SHEET CAD FILE 135716 C-001.dgn
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SAN DIEGO COUNTY, CALIFORNIA
ENCINITAS AND SOLANA BEACH
BEACH NOURISHMENT

1111

SHEET ID

G-001

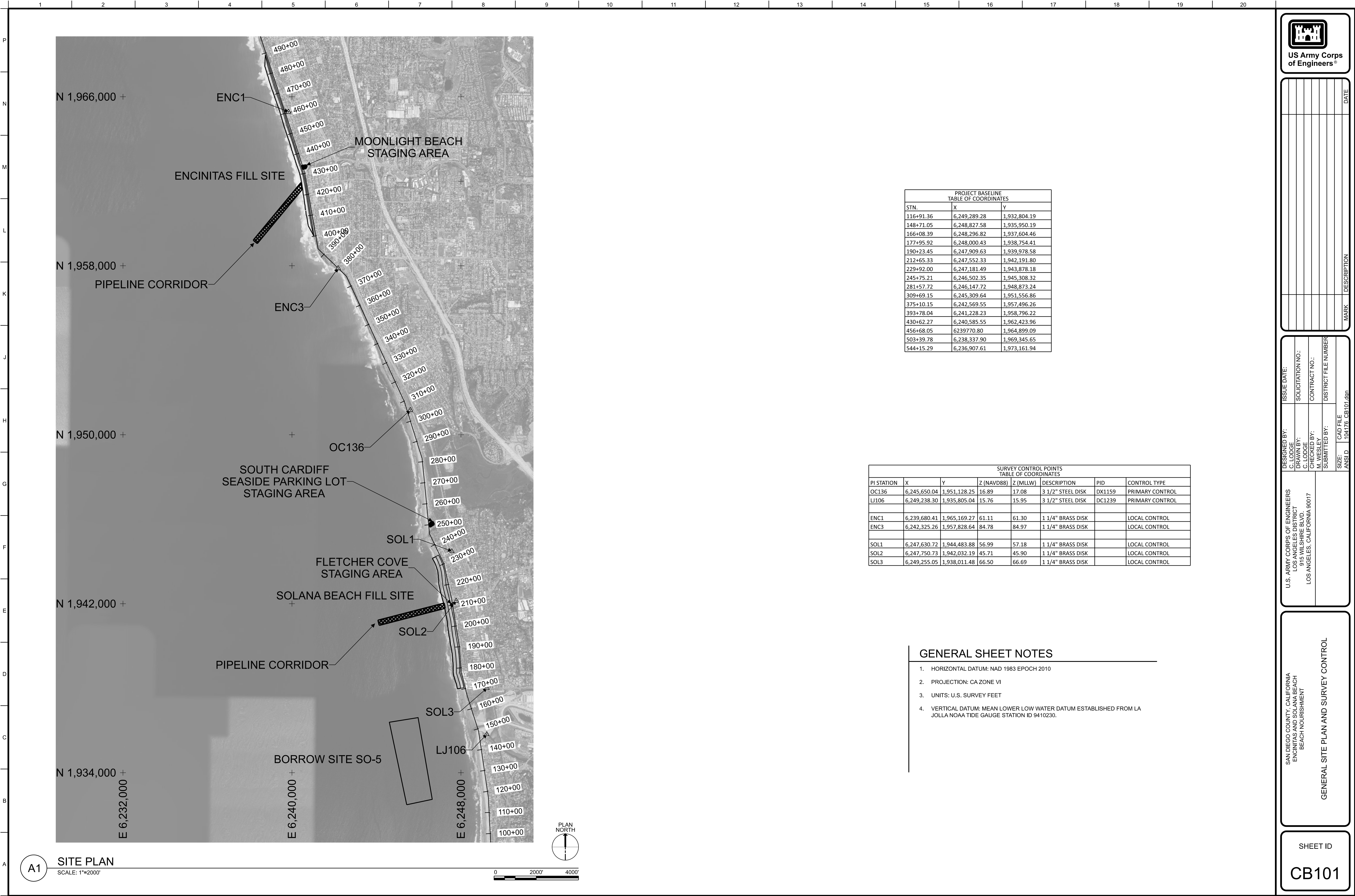


DETAIL / CROSS SECTION DESCRIPTION



1. HORIZONTAL DATUM: NAD 1983 EPOCH 2010
2. PROJECTION: CA ZONE VI
3. UNITS: U.S. SURVEY FEET
4. VERTICAL DATUM: MEAN LOWER LOW WATER DATUM ESTABLISHED FROM LA JOLLA NOAA TIDE GAUGE STATION ID 9410230.
6. SEE SHEET CB101 FOR SURVEY CONTROL INFORMATION.





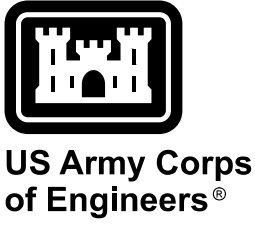
A1 SITE PLAN
SCALE: 1"=2000'

PROJECT BASELINE TABLE OF COORDINATES		
STN.	X	Y
116+91.36	6,249,289.28	1,932,804.19
148+71.05	6,248,827.58	1,935,950.19
166+08.39	6,248,296.82	1,937,604.46
177+95.92	6,248,000.43	1,938,754.41
190+23.45	6,247,909.63	1,939,978.58
212+65.33	6,247,552.33	1,942,191.80
229+92.00	6,247,181.49	1,943,878.18
245+75.21	6,246,502.35	1,945,308.32
281+57.72	6,246,147.72	1,948,873.24
309+69.15	6,245,309.64	1,951,556.86
375+10.15	6,242,569.55	1,957,496.26
393+78.04	6,241,228.23	1,958,796.22
430+62.27	6,240,585.55	1,962,423.96
456+68.05	6239770.80	1,964,899.09
503+39.78	6,238,337.90	1,969,345.65
544+15.29	6,236,907.61	1,973,161.94

SURVEY CONTROL POINTS TABLE OF COORDINATES						
PI STATION	X	Y	Z (NAVD88)	Z (MLLW)	DESCRIPTION	CONTROL TYPE
OC136	6,245,650.04	1,951,128.25	16.89	17.08	3 1/2" STEEL DISK	PRIMARY CONTROL
LJ106	6,249,238.30	1,935,805.04	15.76	15.95	3 1/2" STEEL DISK	PRIMARY CONTROL
ENC1	6,239,680.41	1,965,169.27	61.11	61.30	1 1/4" BRASS DISK	LOCAL CONTROL
ENC3	6,242,325.26	1,957,828.64	84.78	84.97	1 1/4" BRASS DISK	LOCAL CONTROL
SOL1	6,247,630.72	1,944,483.88	56.99	57.18	1 1/4" BRASS DISK	LOCAL CONTROL
SOL2	6,247,750.73	1,942,032.19	45.71	45.90	1 1/4" BRASS DISK	LOCAL CONTROL
SOL3	6,249,255.05	1,938,011.48	66.50	66.69	1 1/4" BRASS DISK	LOCAL CONTROL

GENERAL SHEET NOTES

- HORIZONTAL DATUM: NAD 1983 EPOCH 2010
- PROJECTION: CA ZONE VI
- UNITS: U.S. SURVEY FEET
- VERTICAL DATUM: MEAN LOWER LOW WATER DATUM ESTABLISHED FROM LA JOLLA NOAA TIDE GAUGE STATION ID 9410230.



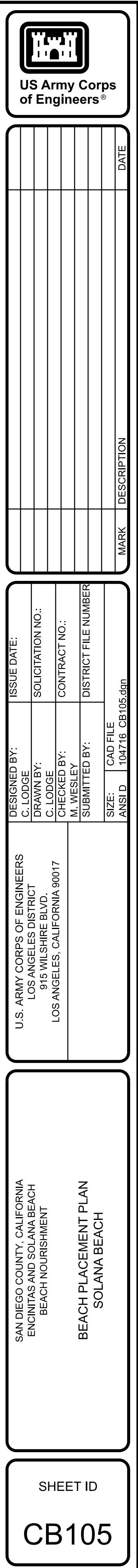
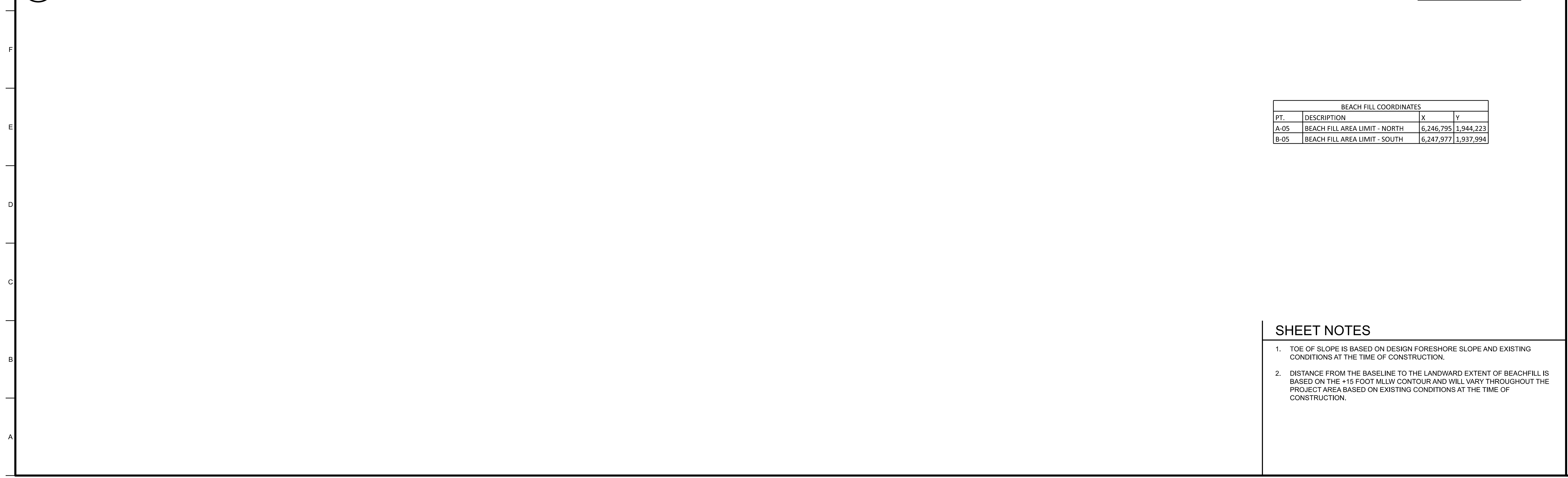
DESIGNED BY: C. LODGE	ISSUE DATE:
DRAWN BY: C. LODGE	SOLICITATION NO.:
CHECKED BY: M. WESLEY	CONTRACT NO.:
SUBMITTED BY:	DISTRICT FILE NUMBER:
SIZE: ANSI D	CAD FILE 104176 CB101.dgn

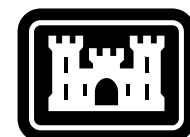
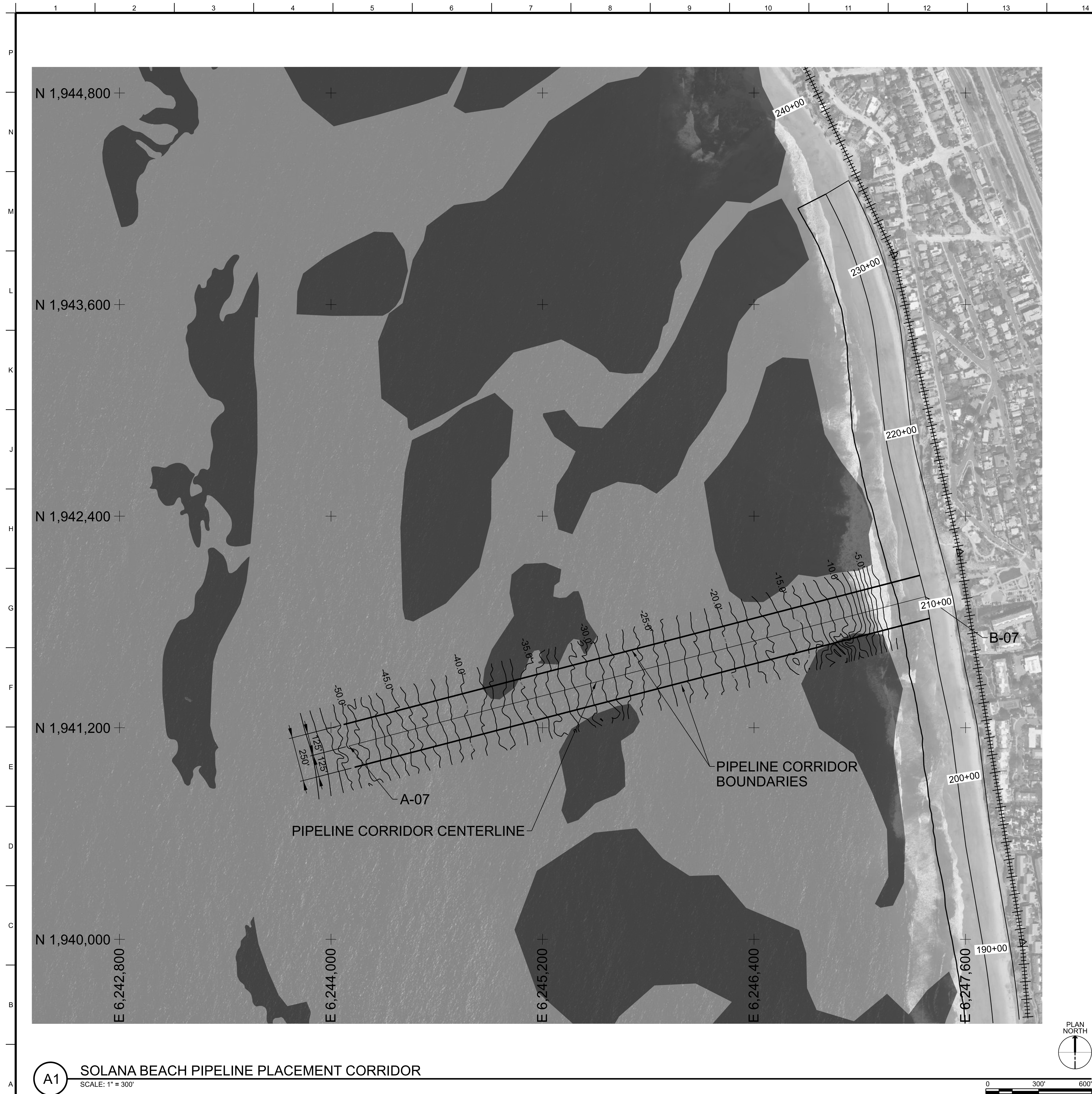
SAN DIEGO COUNTY, CALIFORNIA
ENCINITAS AND SOLANA BEACH
BEACH NOURISHMENT

GENERAL SITE PLAN AND SURVEY CONTROL

SHEET ID
CB101







**US Army Corps
of Engineers®**

[illegible]

U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT 915 WILSHIRE BLVD. LOS ANGELES, CALIFORNIA 90017	DESIGNED BY:	ISSUE DATE:
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	CHECKED BY:	CONTRACT NO.:
	SUBMITTED BY:	DISTRICT FILE NUMBER
	SIZE:	CAD FILE

SAN DIEGO COUNTY, CALIFORNIA
ENCINITAS AND SOLANA BEACH
BEACH NOURISHMENT

PIPELINE PLACEMENT AREA SOLANA BEACH

SHEET ID

CB107

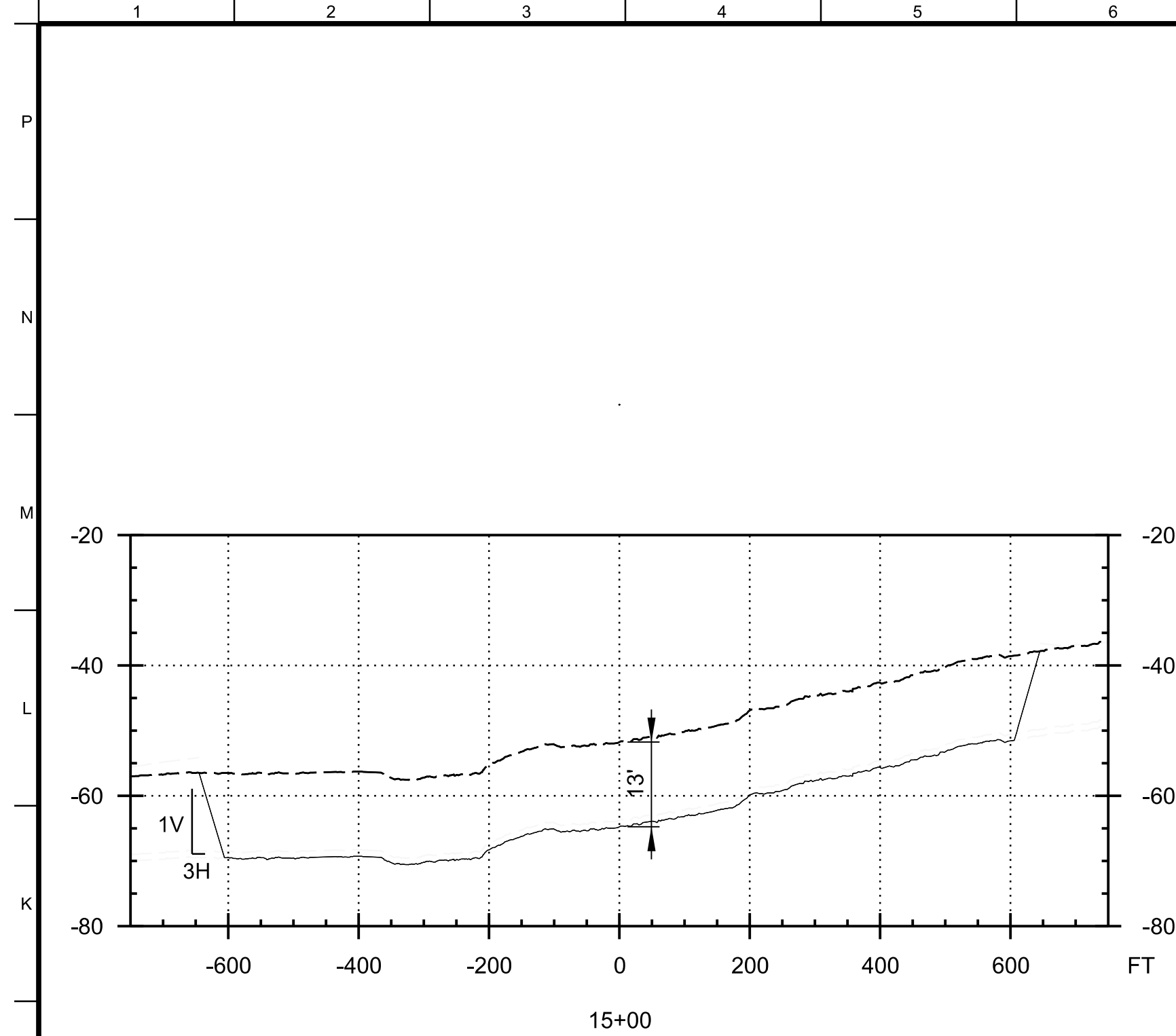
PIPELINE CORRIDOR CENTERLINE COORDINATES		
PT.	X	Y
A-07	6244090.1	1941092.7
B-07	6247359.8	1941939.4

LEGEND

APPROXIMATE REGIONS OF HARD BOTTOM HABITAT

SHEET NOTES

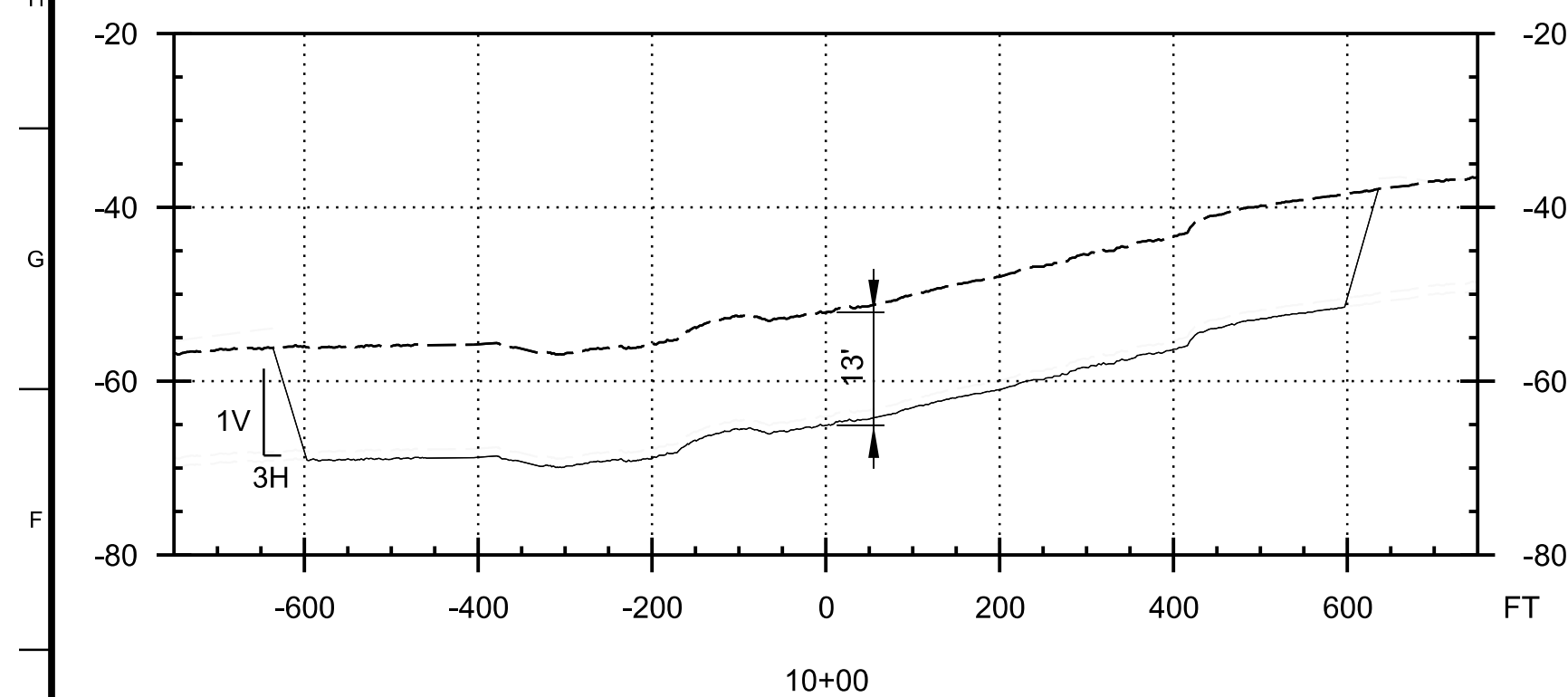
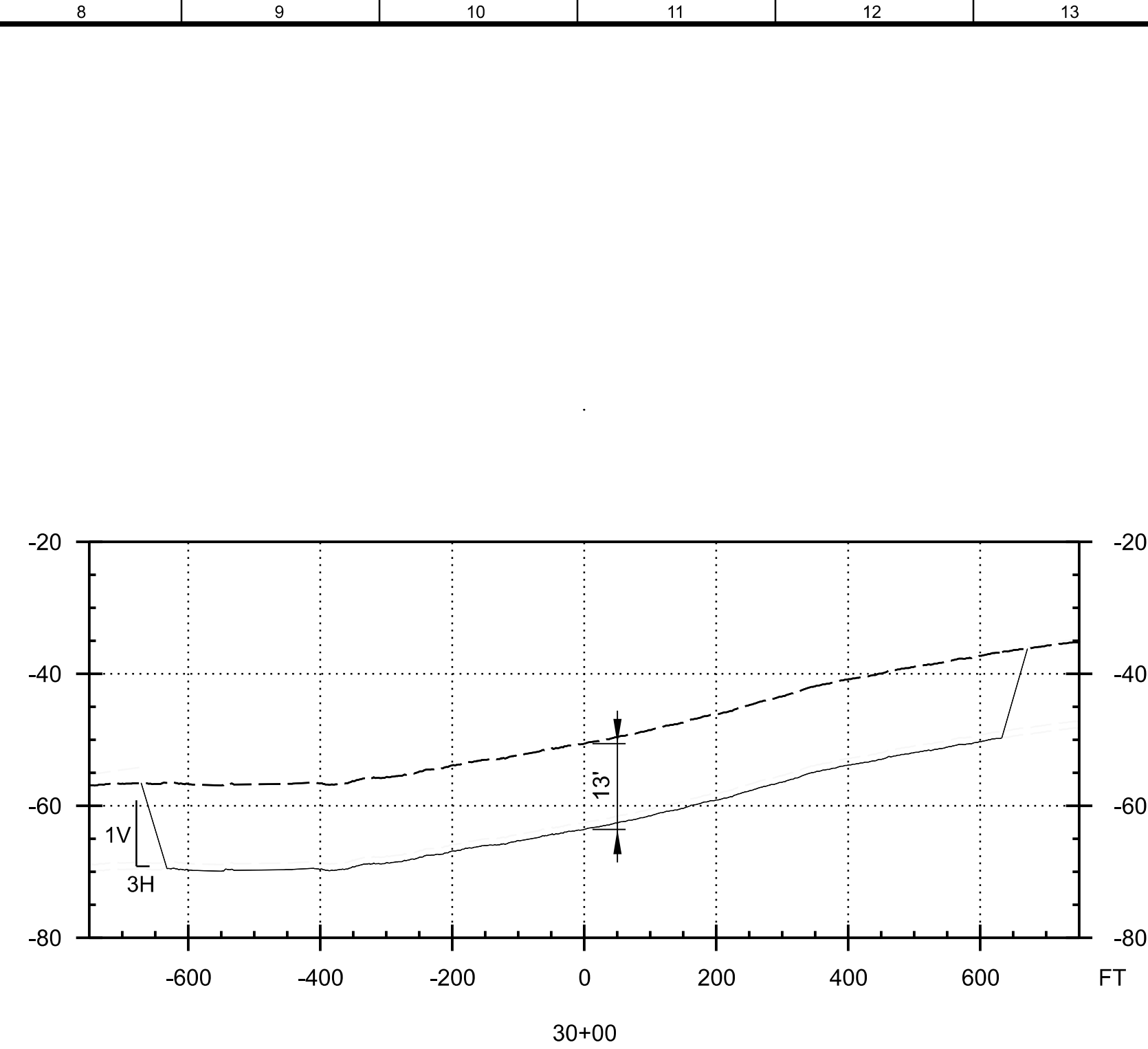
1. APPROXIMATE REGIONS OF HARD BOTTOM HABITAT INCLUDING KELP, SURFGRASS, AND UNDERSTORY ALGAE.
2. APPROXIMATE REGIONS OF HARD BOTTOM HABITAT INDICATE THE GENERAL CONDITION ONLY AT THE TIME OF SURVEY - BEFORE 2010.
3. SOUNDINGS AND ELEVATIONS, IN SURVEY FEET, INDICATE THE GENERAL CONDITION ONLY AT THE TIME OF SURVEY - BEFORE 2010.



F10
CB108

J1

STA. 15+00
HORIZONTAL SCALE: 1" = 200'
VERTICAL SCALE: 1" = 20'

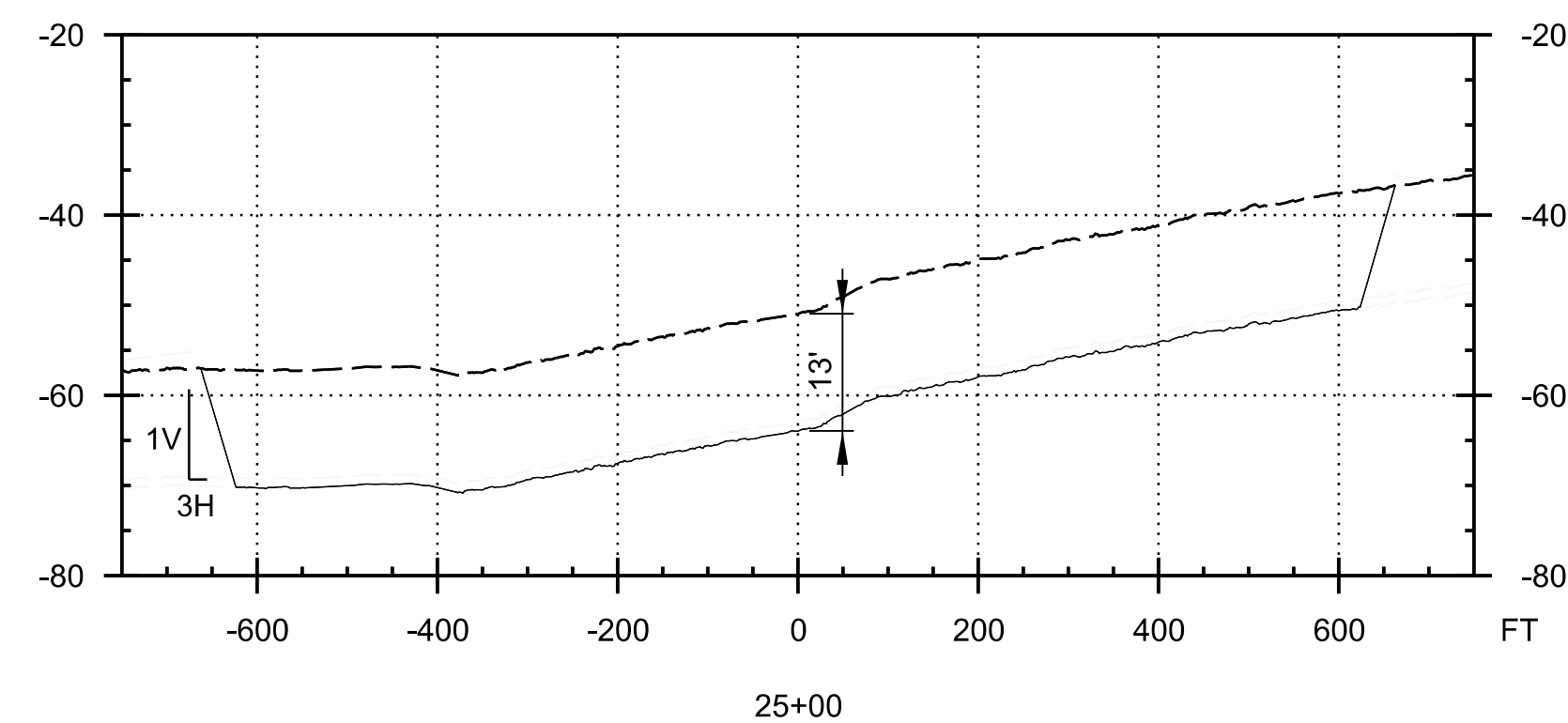


E10
CB108

E1

STA. 10+00

HORIZONTAL SCALE: 1" = 200'
VERTICAL SCALE: 1" = 20'

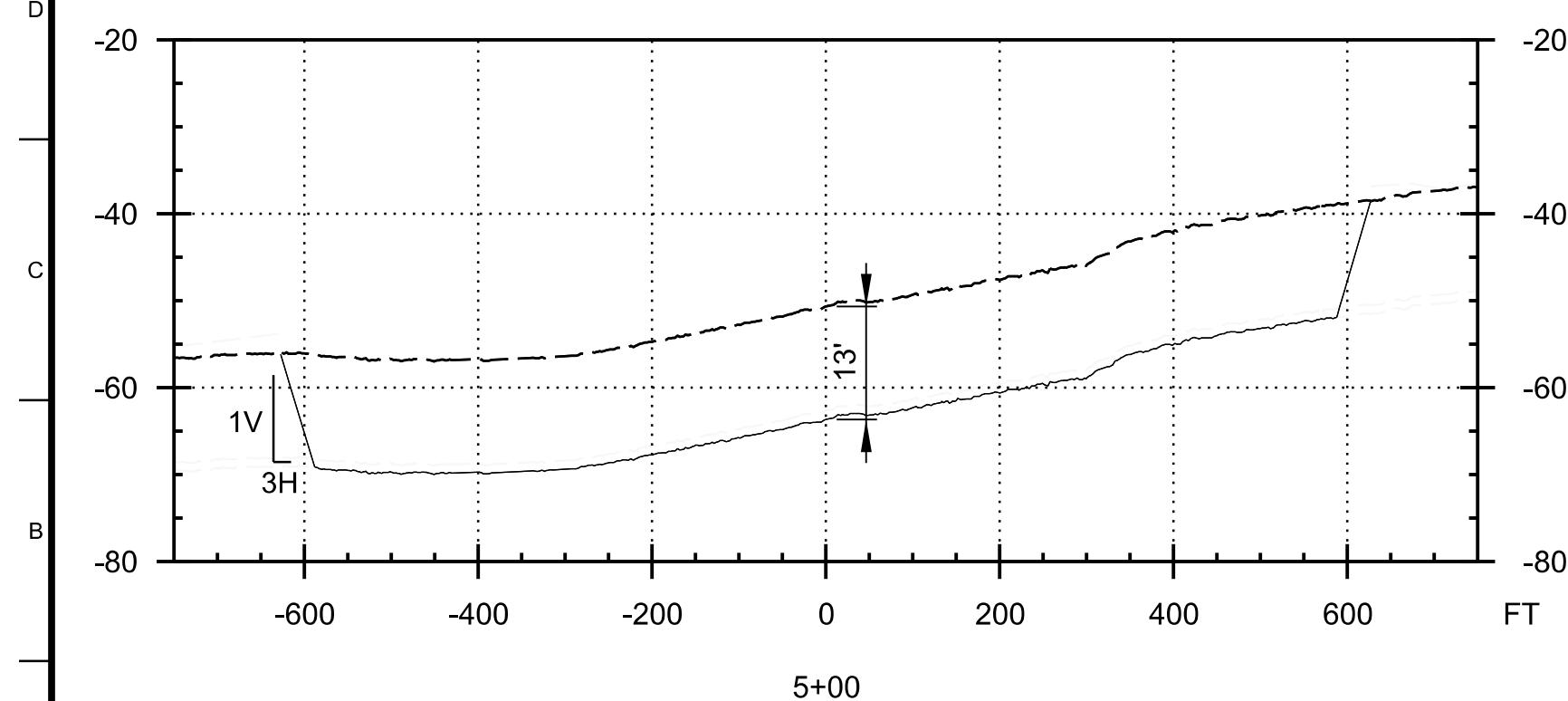


H10
CB108

E8

STA. 25+00

HORIZONTAL SCALE: 1" = 200'
VERTICAL SCALE: 1" = 20'

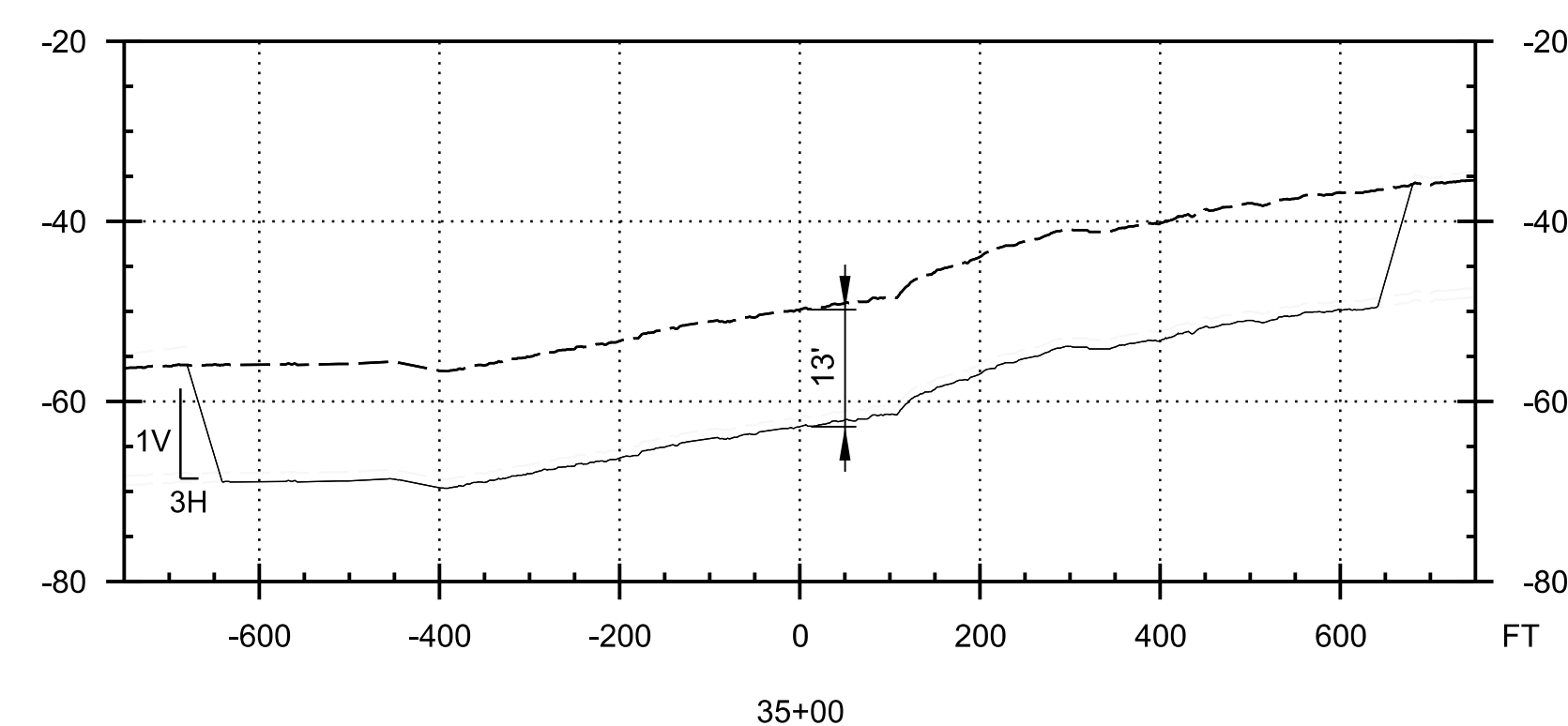
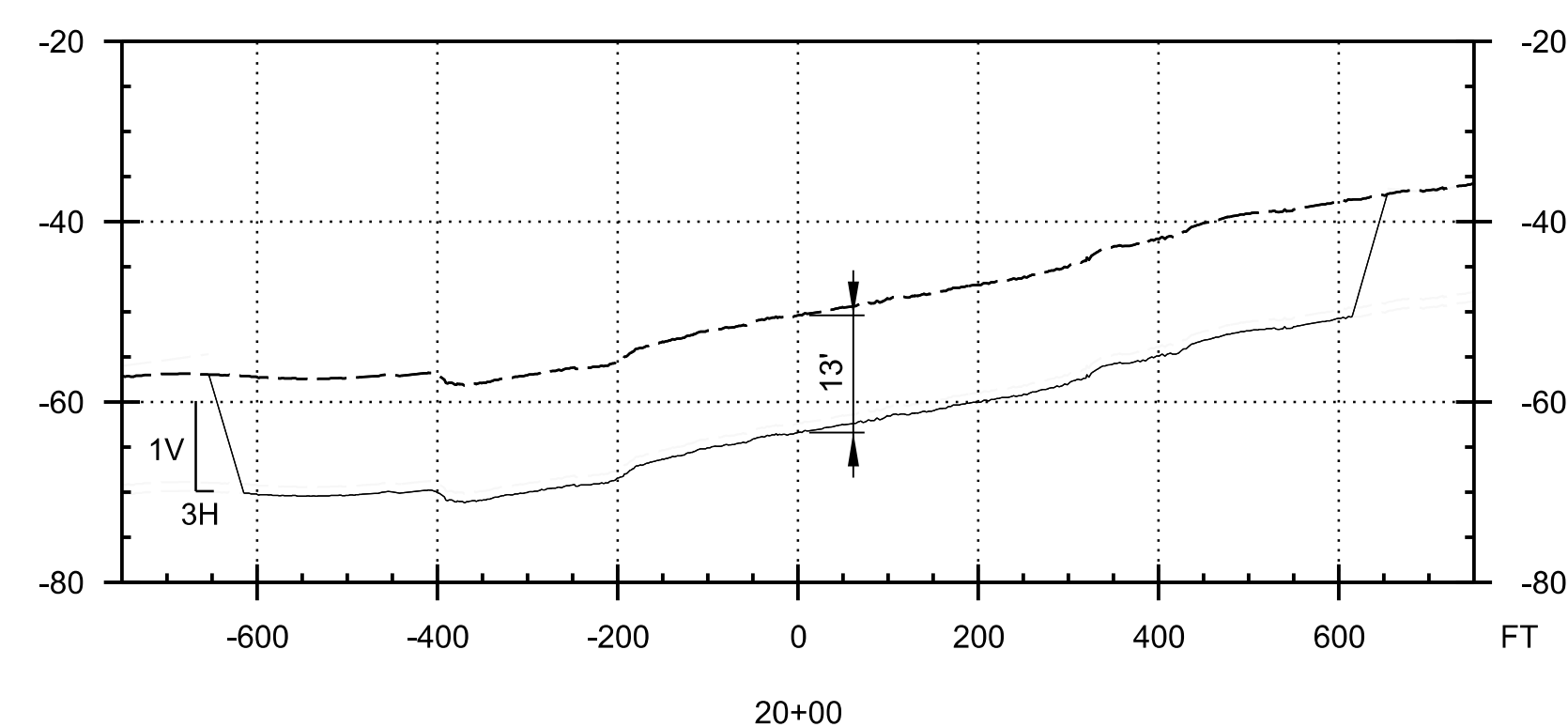


D10
CB108

A1

STA. 5+00

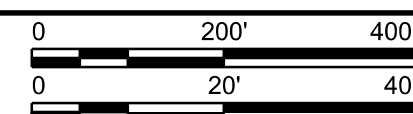
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'



K10
CB108

A15

STA. 35+00
HORIZONTAL SCALE: 1" = 200'
VERTICAL SCALE: 1" = 20'



LEGEND

AUGUST 2022 SINGLE-BEAM SURVEY

DREDGE LIMITS

SHEET NOTES

1. SOUNDINGS AND ELEVATIONS, IN SURVEY FEET, INDICATE THE GENERAL CONDITION ONLY AT THE TIME OF SURVEY - AUGUST 9-10, 2022.
2. BORROW AREA ALLOWABLE DREDGE DEPTH IS 13.0 FEET BELOW EXISTING BATHYMETRY. THERE IS NO ALLOWABLE OVERDEPTH.
3. BORROW AREA WAS PREVIOUSLY DREDGED IN 2012.
4. BORROW AREA DREDGE TEMPLATE CONTAINS OVER 2,424,000 CUBIC YARDS.



US Army Corps
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[illegible]

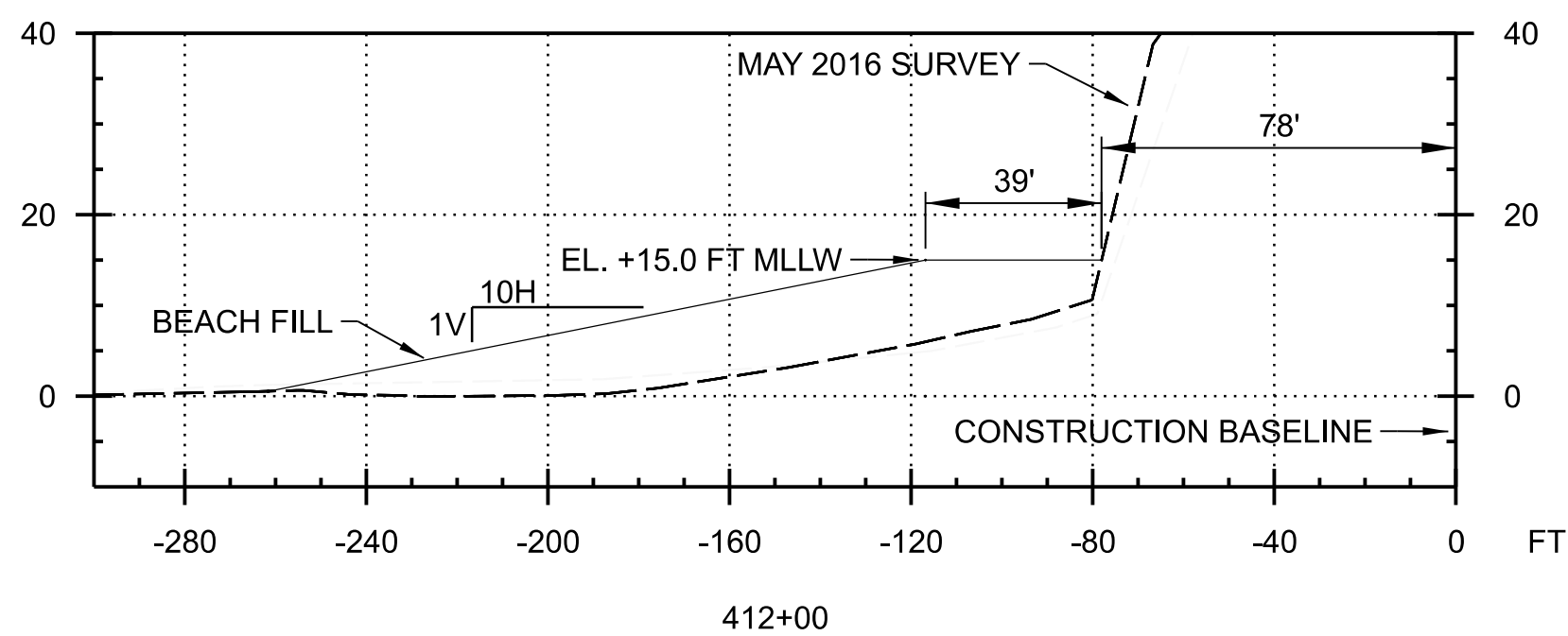
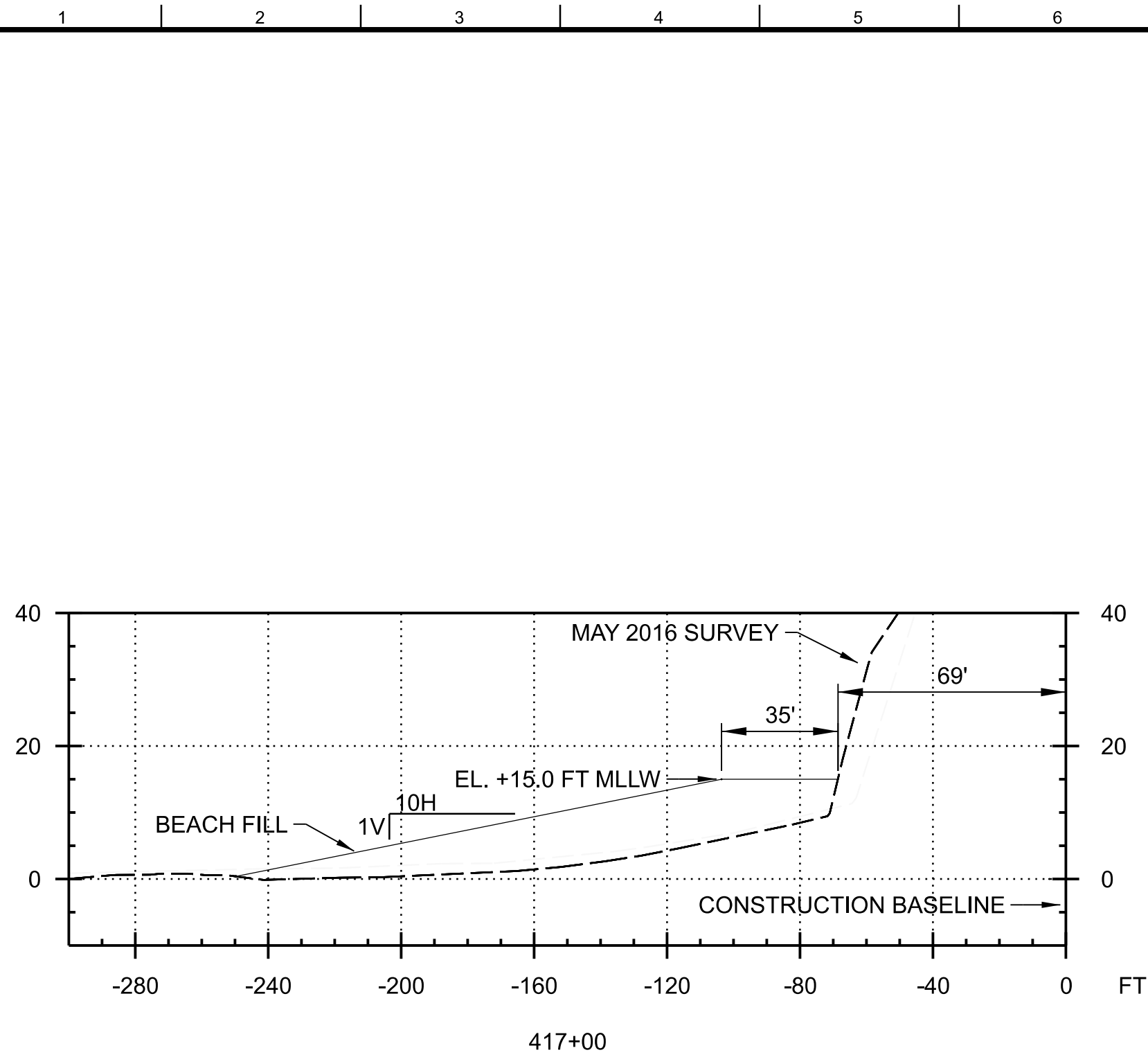
U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT 915 WILSHIRE BLVD. LOS ANGELES, CALIFORNIA 90017	DESIGNED BY:	ISSUE DATE:
	DRAWN BY:	SOLICITATION NO.:
	C. LODGE	CONTRACT NO.:
	CHECKED BY:	
	M. WESLEY	
	SUBMITTED BY:	DISTRICT FILE NAME
	SIZE:	CAD FILE
	ANSI D	1041776 CB301.dgn

SAN DIEGO COUNTY, CALIFORNIA
ENCINITAS AND SOLANA BEACH
BEACH NOURISHMENT

BORROW AREA CROSS SECTIONS

SHEET ID

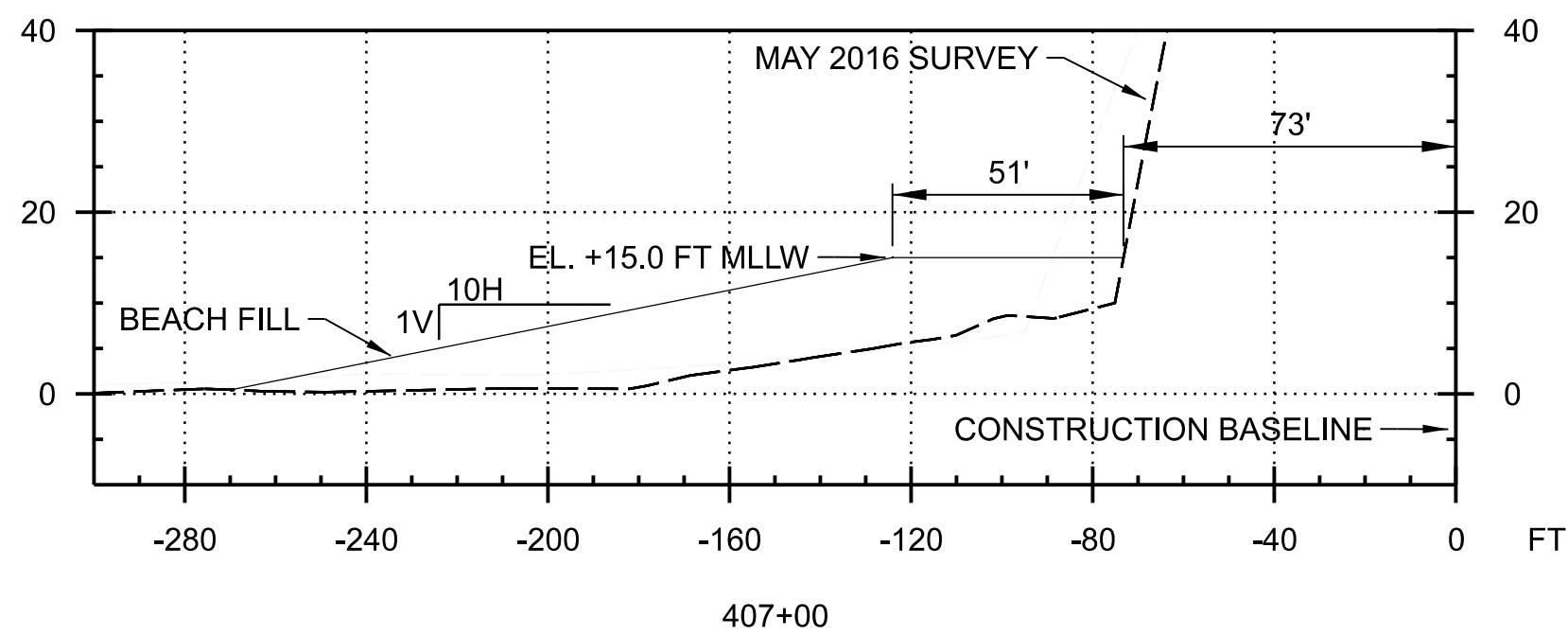
CB301



P17
CB102

E1

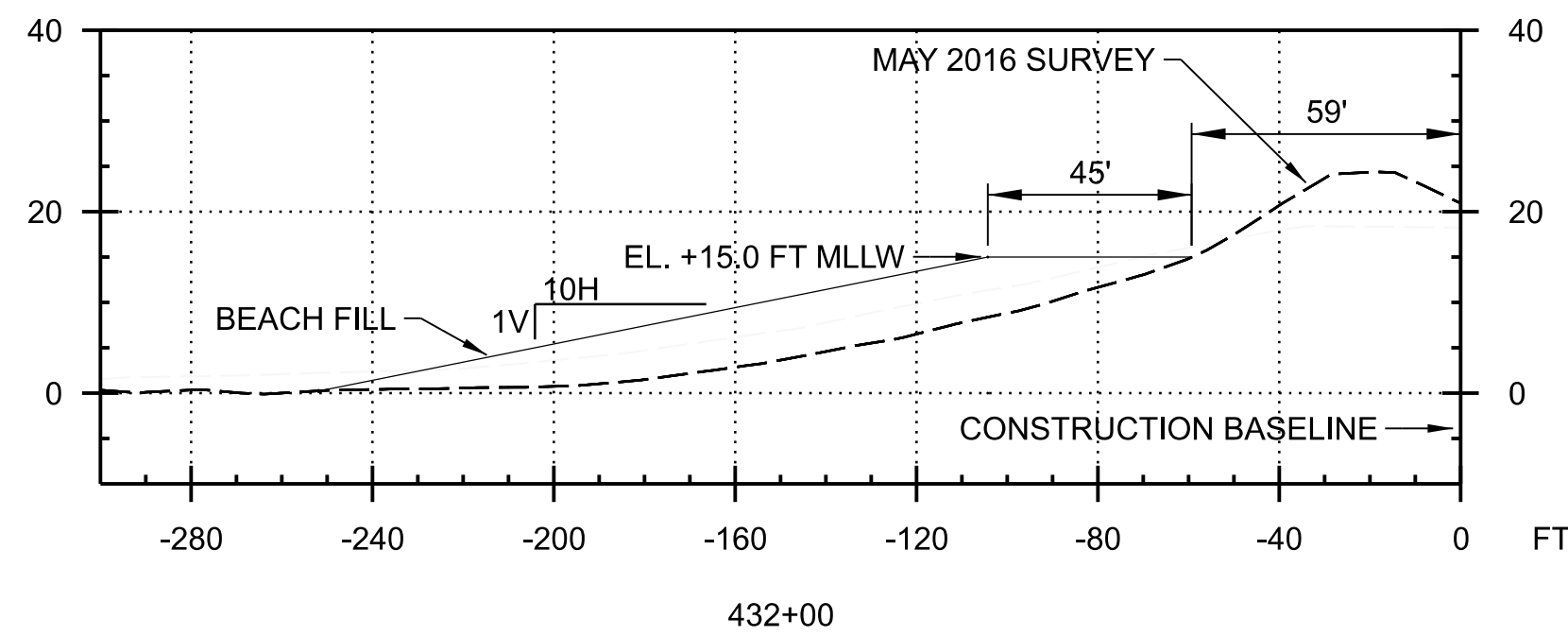
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HORIZONTAL SCALE: 1"
VERTICAL SCALE: 1"



P18
CB102

A1

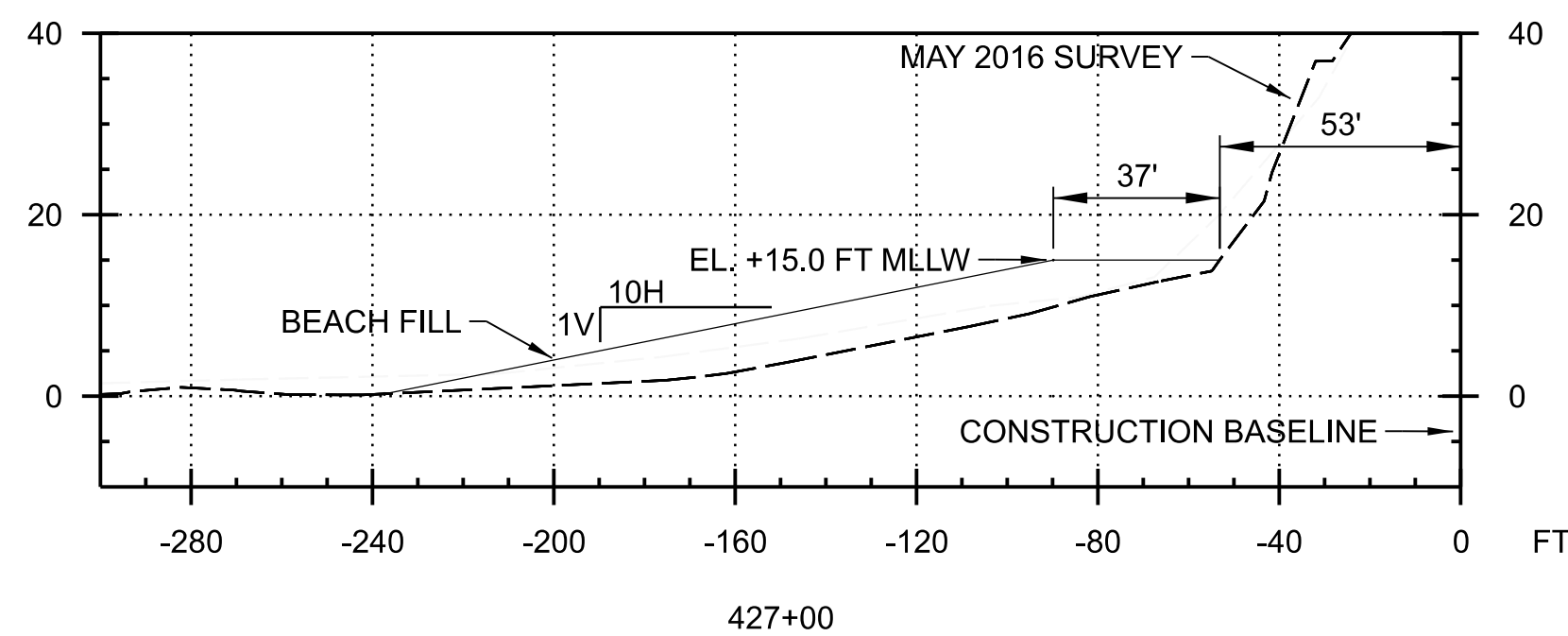
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VERTICAL SCALE: 1"



N13
CB102

J8

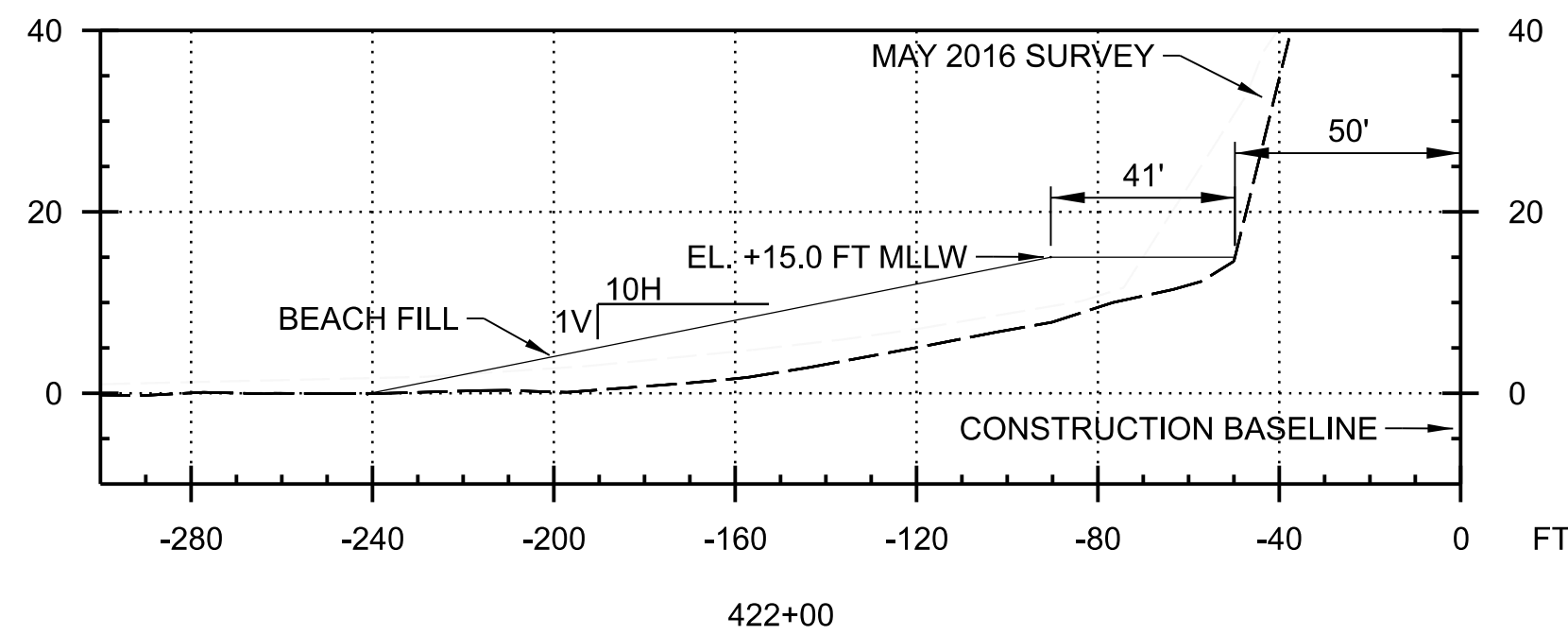
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VERTICAL SCALE: 1"



P14
CB102

E8

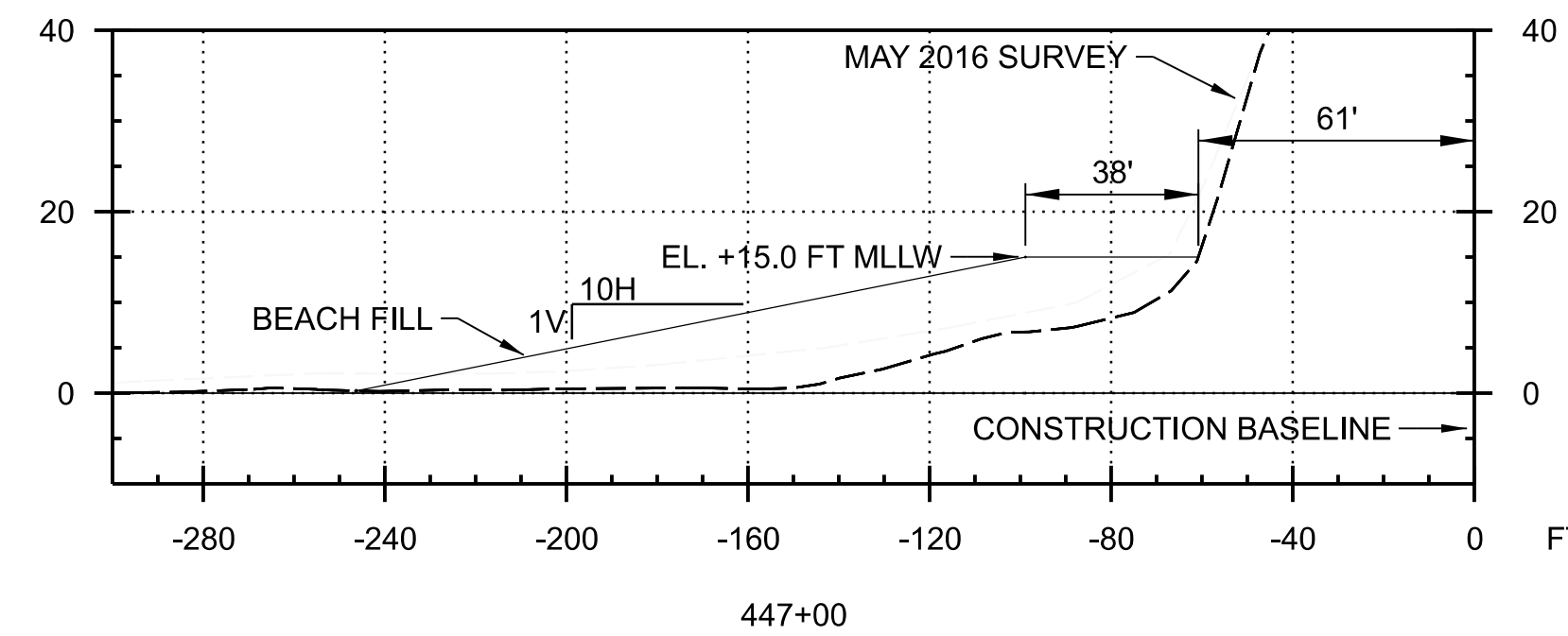
STA. 427+00
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VERTICAL SCALE: 1"



P15
CB102

A8

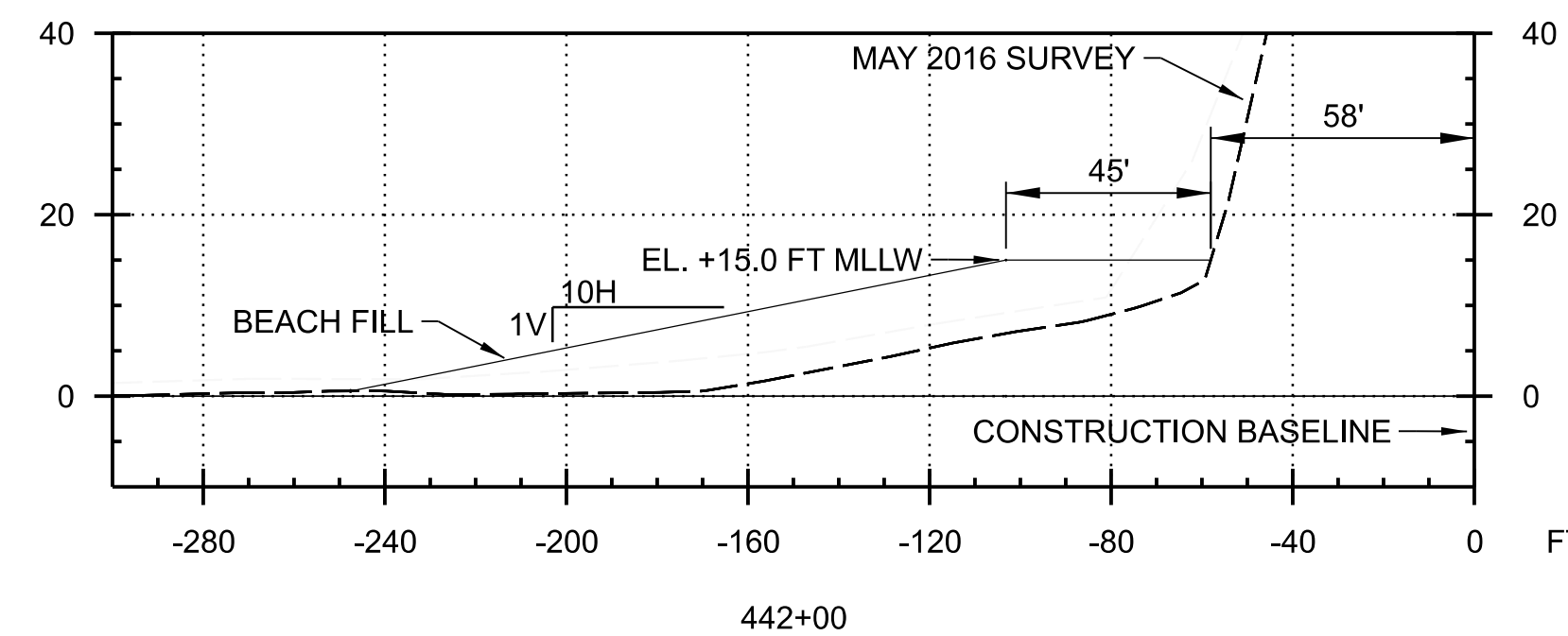
STA. 422+00
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VERTICAL SCALE: 1" =



M10
CB102

J15

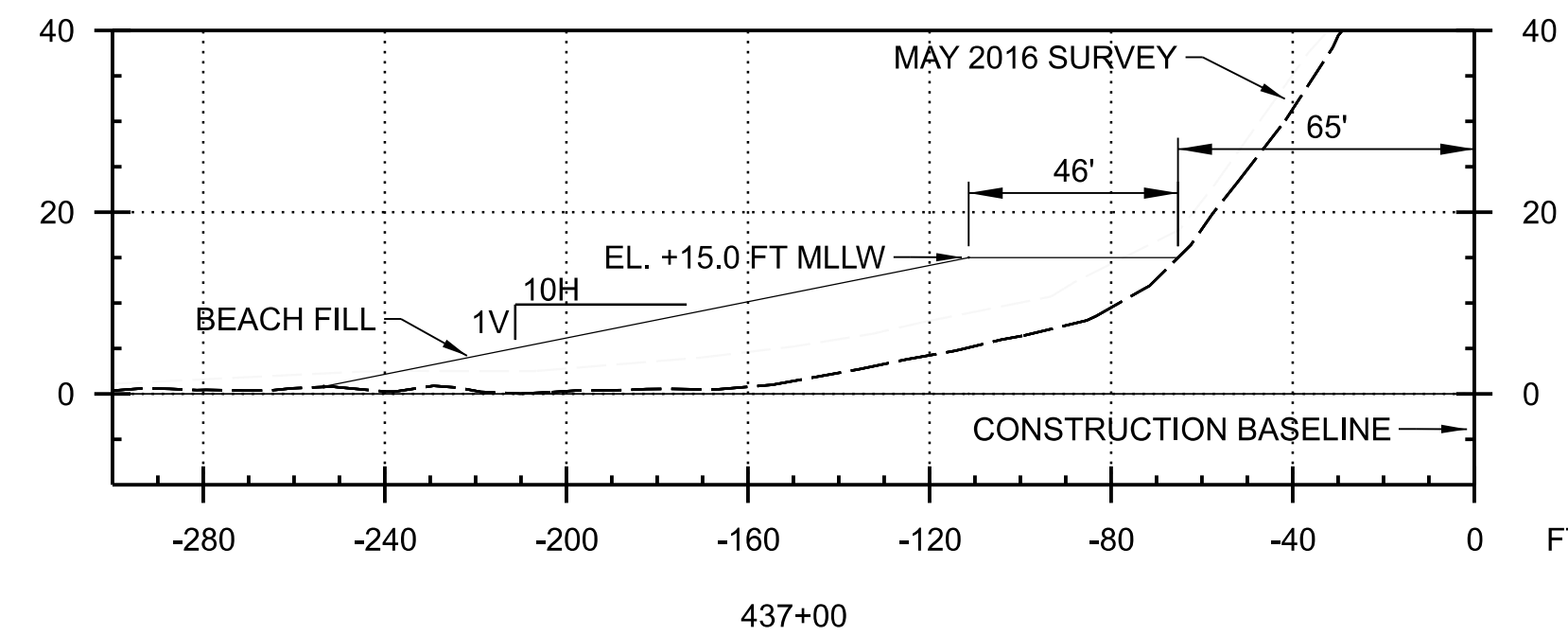
STA. 447+00
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



M11
CB102

E15

STA. 442+00
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'

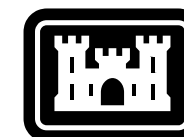


N12
CB102

A15

STA. 437+0
HORIZONTAL SCALE:
VERTICAL SCALE:

NOTE: SEE CB303 FOR SHEET NOTES

[illegible]

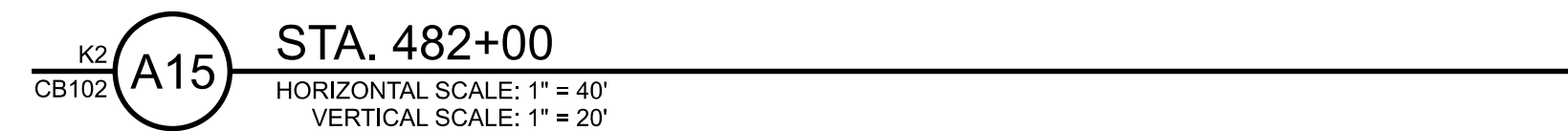
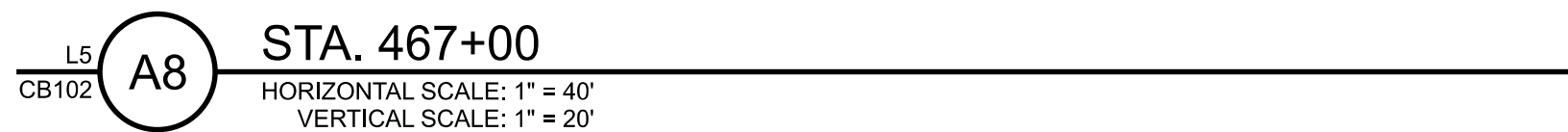
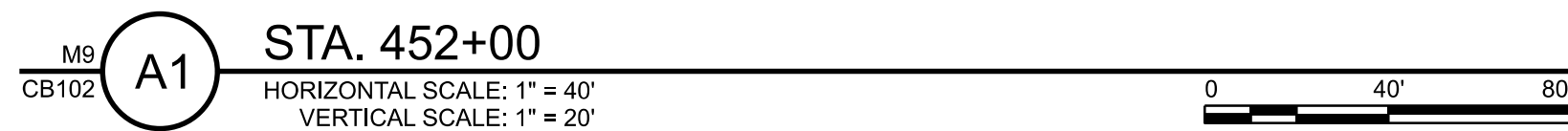
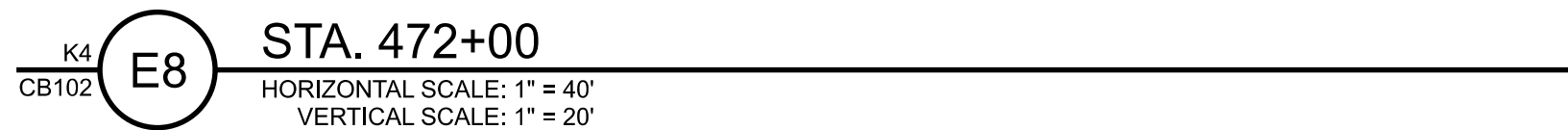
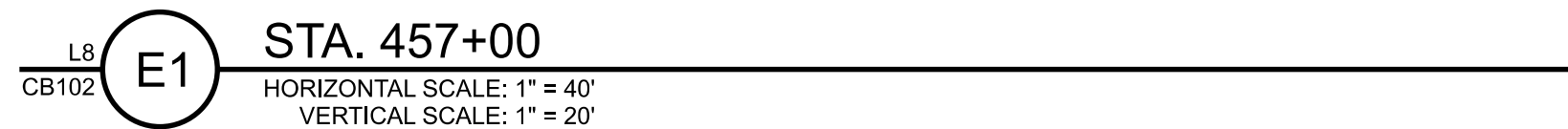
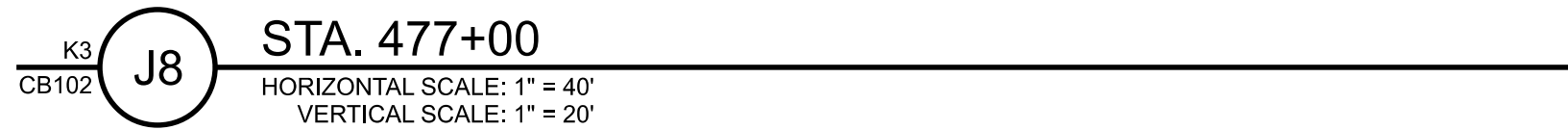
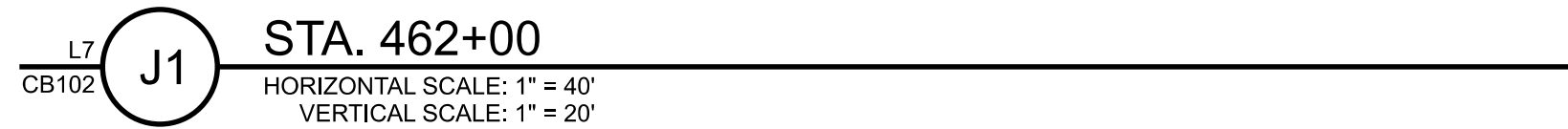
U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT 915 WILSHIRE BLVD. LOS ANGELES, CALIFORNIA 90017	DESIGNED BY:	ISSUE DATE:
	C. LODGE	
	DRAWN BY:	SOLICITATION NO.:
	C. LODGE	
	CHECKED BY:	CONTRACT NO.:
	M. WESLEY	
	SUBMITTED BY:	DISTRICT FILE NUMBER
	SIZE:	CAD FILE

SAN DIEGO COUNTY, CALIFORNIA
ENCINITAS AND SOLANA BEACH
BEACH NOURISHMENT

BEACH PLACEMENT CROSS SECTIONS
ENCINITAS

SHEET ID

CB302



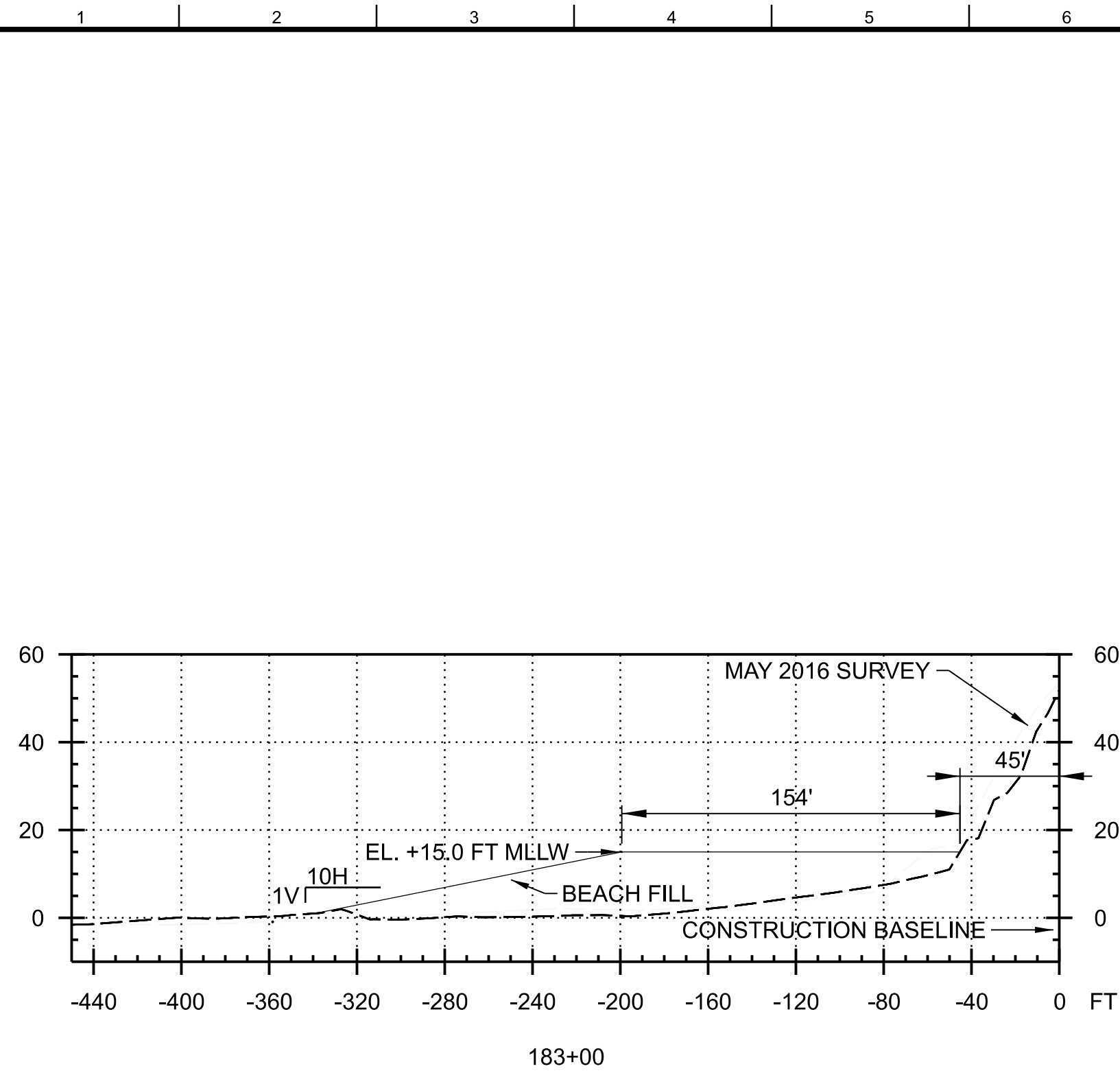
MAY 2016 LIDAR SURVEY -----

BEACH FILL _____

1. SEE SHEET CB102 FOR TYPICAL CROSS SECTION.
2. SOUNDINGS AND ELEVATIONS, IN SURVEY FEET, INDICATE THE GENERAL CONDITION ONLY AT THE TIME OF SURVEY - MAY, 2016.
3. BEACH FILL ELEVATION HAS A TOLERANCE OF PLUS OR MINUS 1 FOOT.

U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT 915 WILSHIRE BLVD. LOS ANGELES, CALIFORNIA 90017	DESIGNED BY: C. LODGE	ISSUE DATE:
	CHECKED BY: M. WESLEY	SOLICITATION NO.:
	SUBMITTED BY:	CONTRACT NO.:
	SIZE: ANSI D	DISTRICT FILE NUMBER:
	CAD FILE 104716 CB3303.dgn	

SHEET ID
CB303

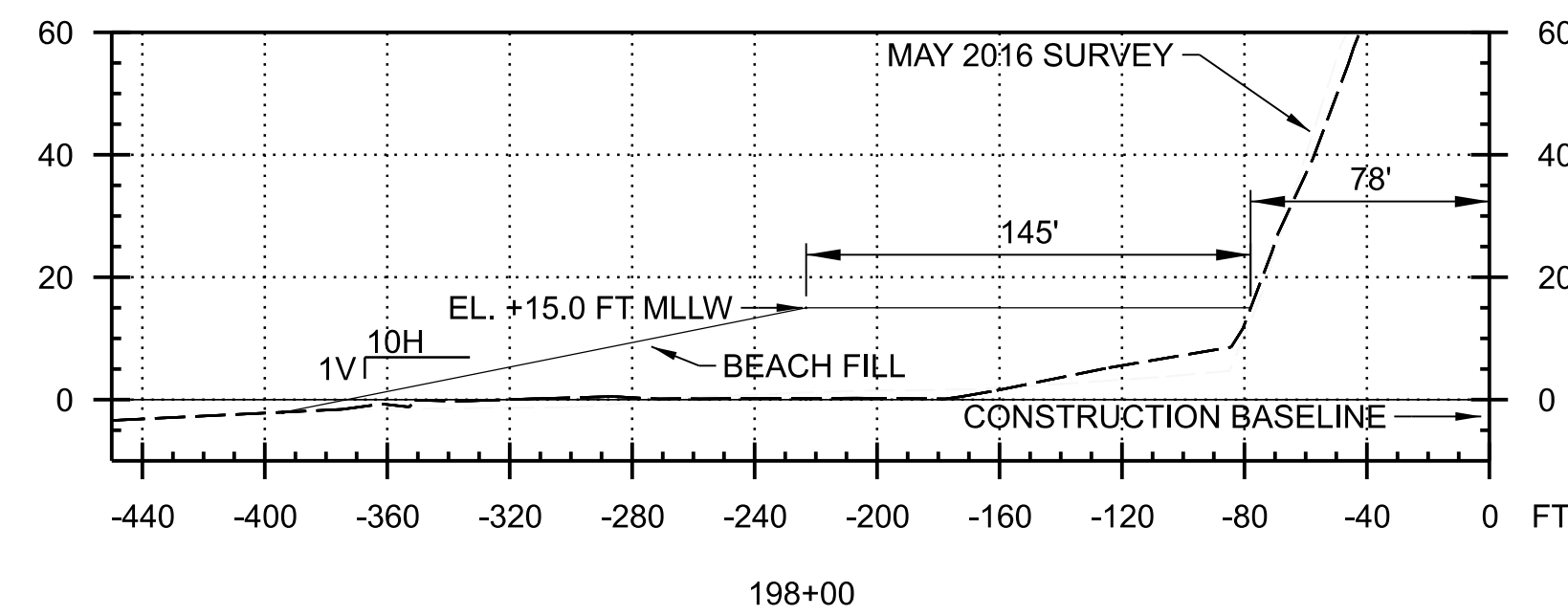


N16
CB105

J1

STA. 183+00

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VERTICAL SCALE: 1" = 30'

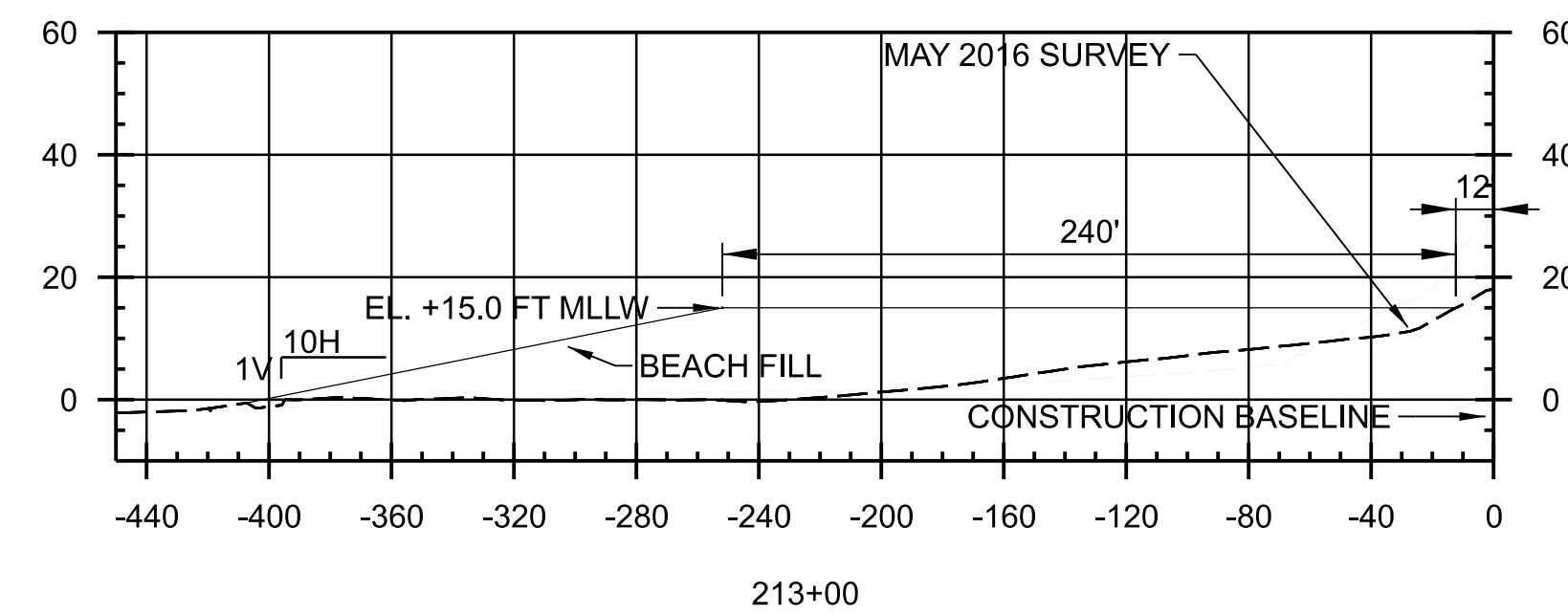


N12
CB105

J8

STA. 198+00

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VERTICAL SCALE: 1" = 30'

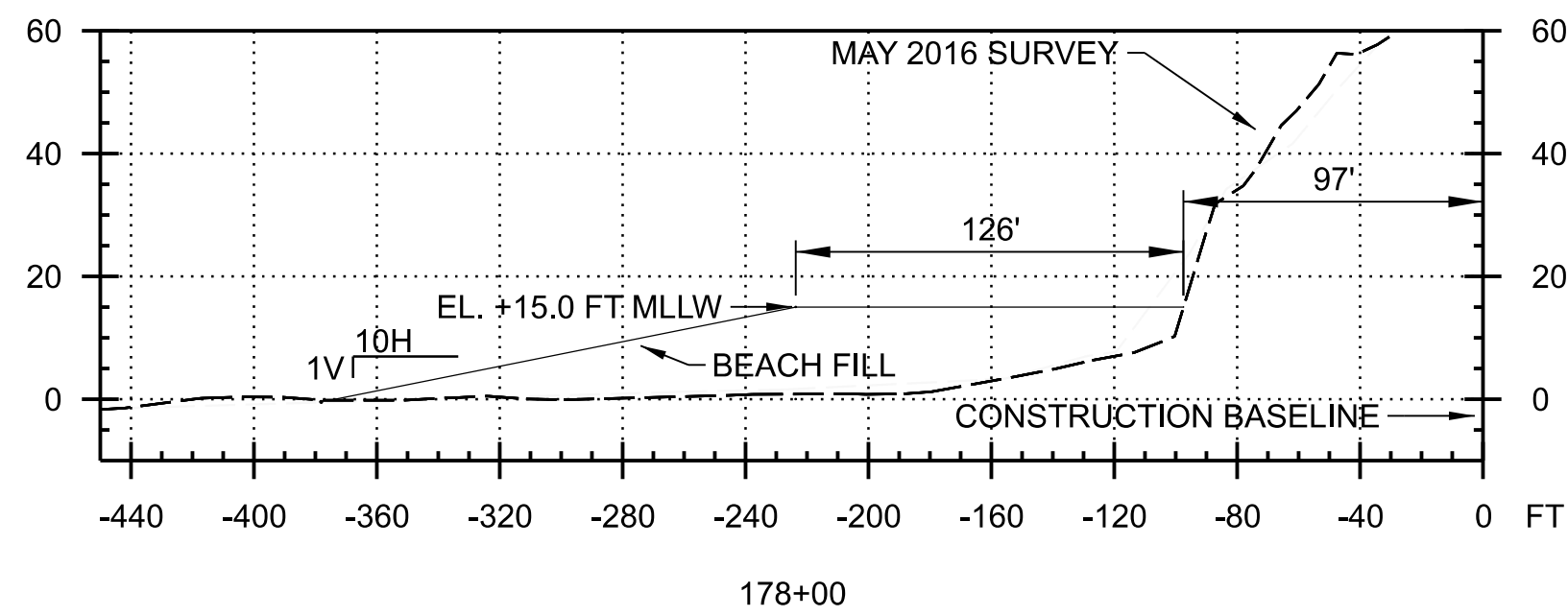


M9
CB105

J15

STA. 213+00

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VERTICAL SCALE: 1" = 30'

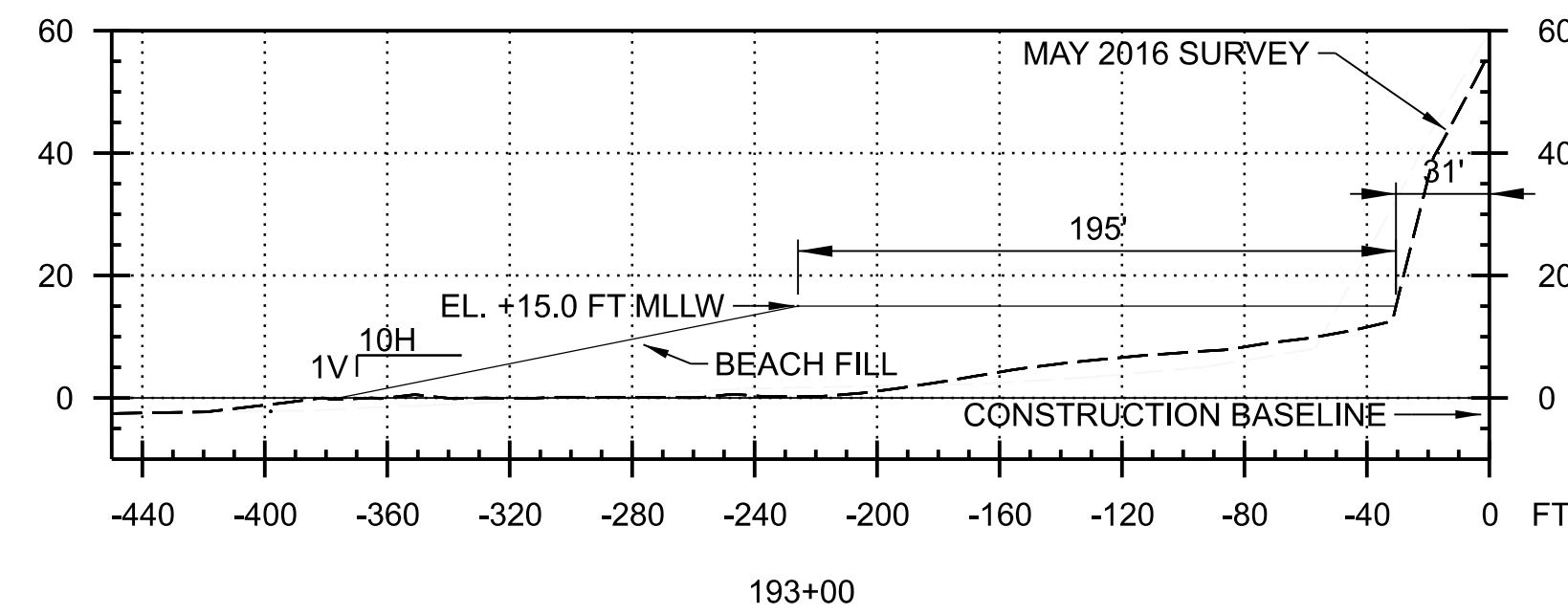


N17
CB105

E1

STA. 178+00

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VERTICAL SCALE: 1" = 30'

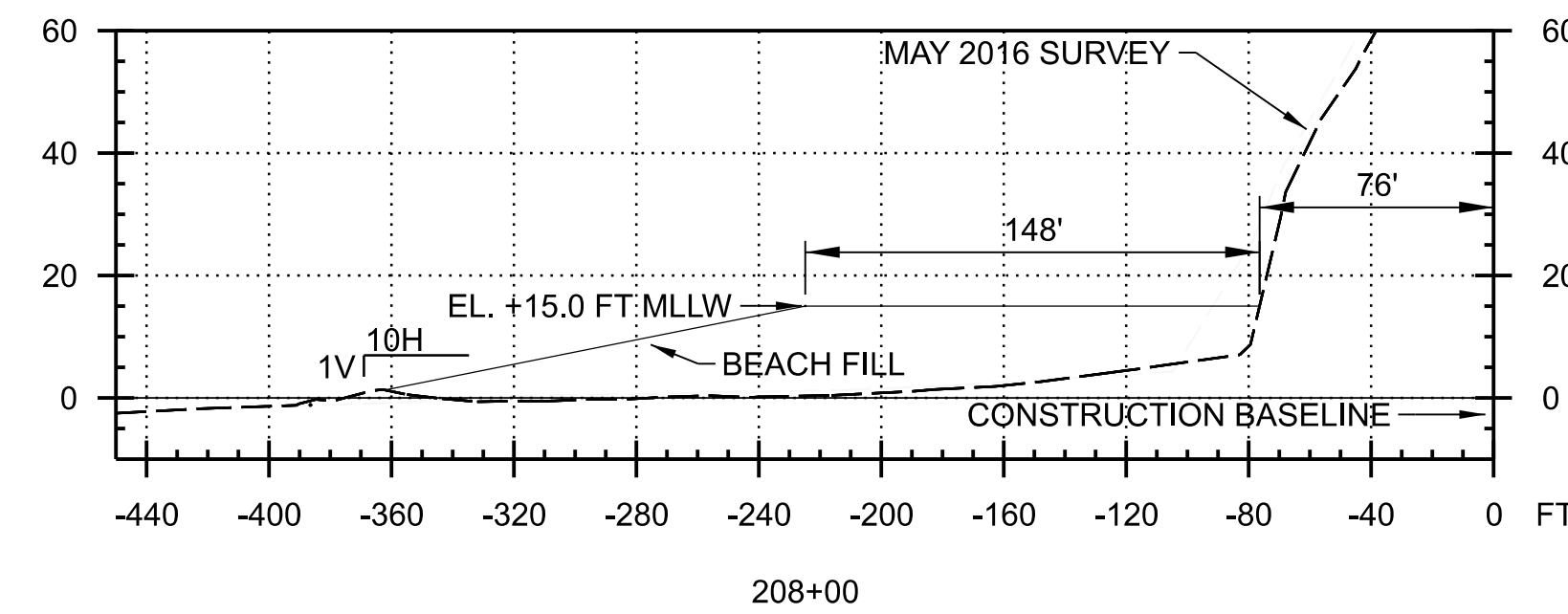


N13
CB105

E8

STA. 193+00

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VERTICAL SCALE: 1" = 30'

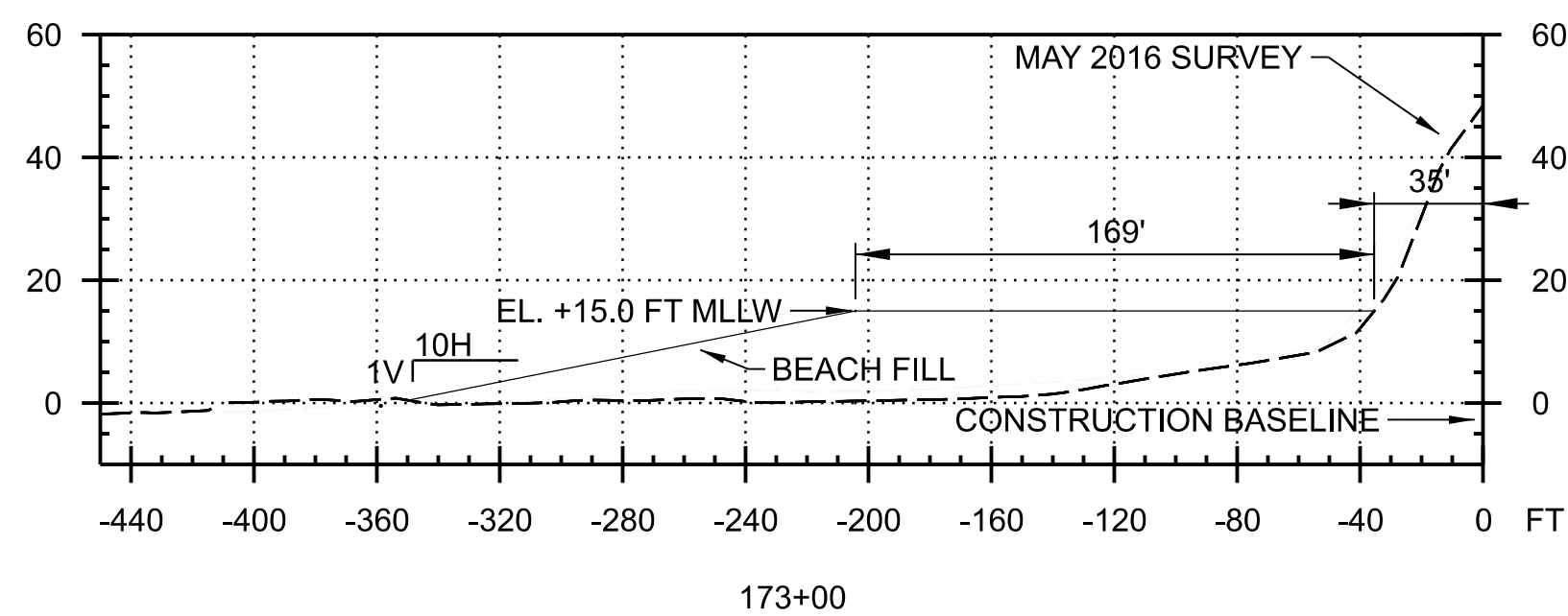


M10
CB105

E15

STA. 208+00

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VERTICAL SCALE: 1" = 30'

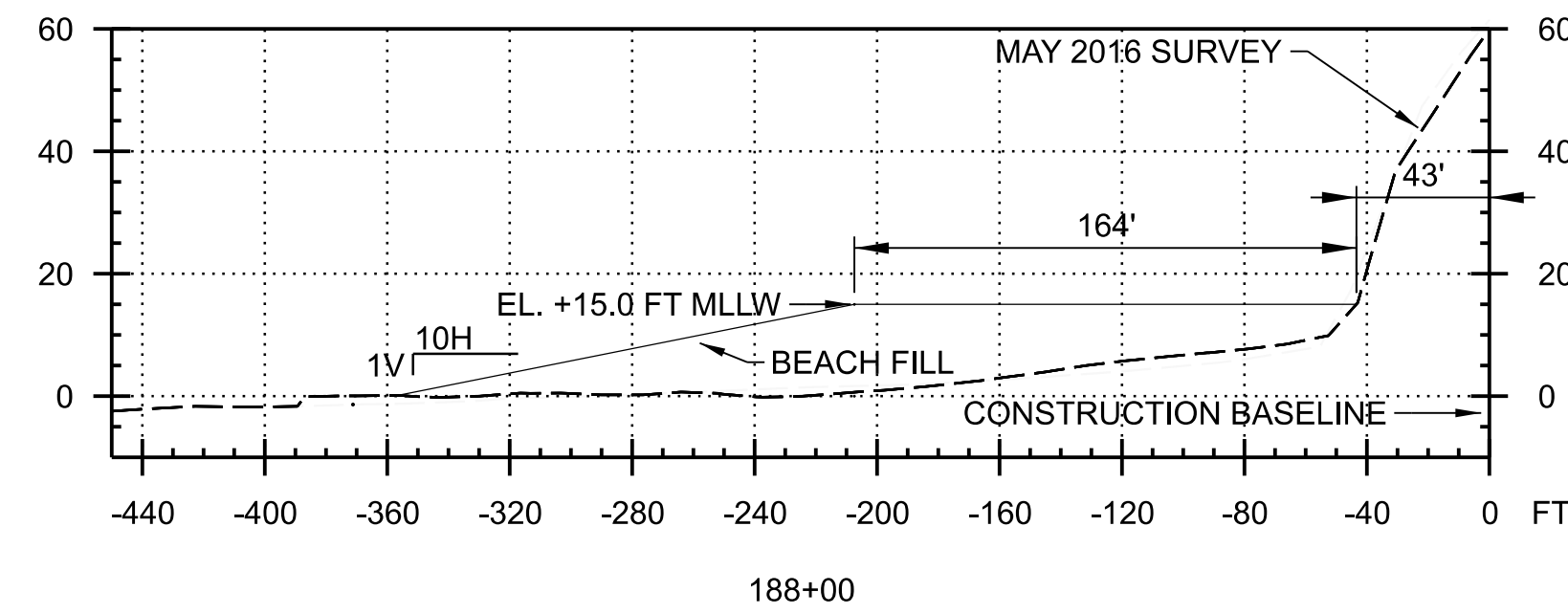


P18
 CB105

A1

STA. 173+00

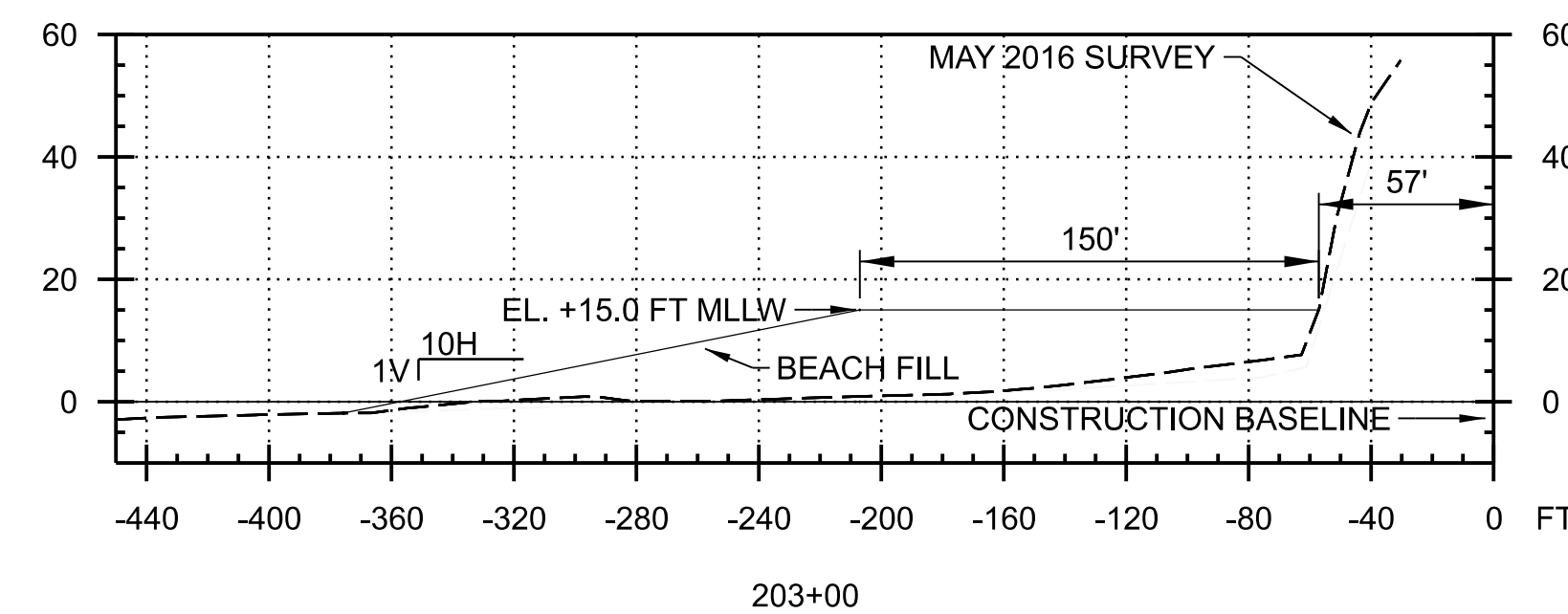
HORIZONTAL SCALE: 1" = 60'
 VERTICAL SCALE: 1" = 30'



N14
CB105

STA. 188+00

HORIZONTAL SCALE: 1" = 60'
VERTICAL SCALE: 1" = 30'

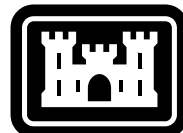


N11
CB105

A15

STA. 203+00

HORIZONTAL SCALE: 1" = 60'
VERTICAL SCALE: 1" = 30'

[illegible]

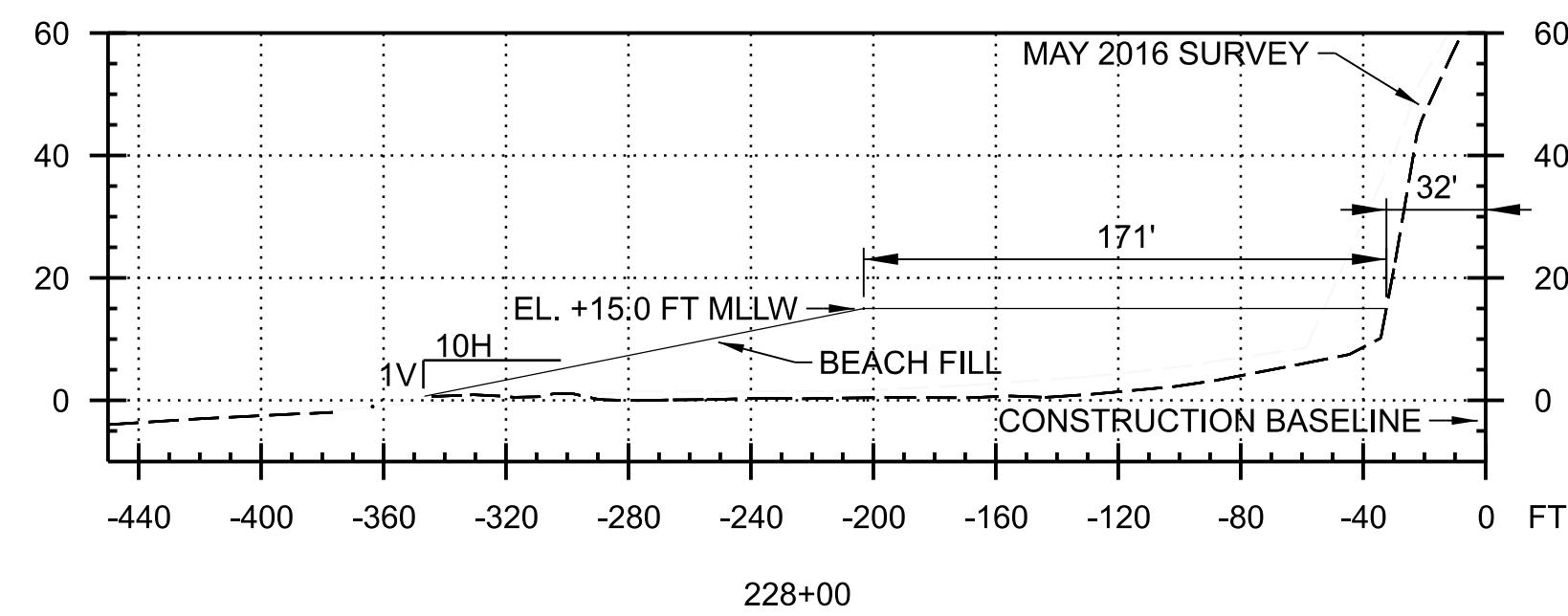
U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT 915 WILSHIRE BLVD. LOS ANGELES, CALIFORNIA 90017	DESIGNED BY:	ISSUE DATE:
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	M. WESLEY	
	SUBMITTED BY:	DISTRICT FILE NUMBER
SIZE: CAD FILE ANSI D 104176 CB304.dgn		

SAN DIEGO COUNTY, CALIFORNIA
ENCINITAS AND SOLANA BEACH
BEACH NOURISHMENT

BEACH PLACEMENT CROSS SECTIONS
SOLANA BEACH

SHEET ID

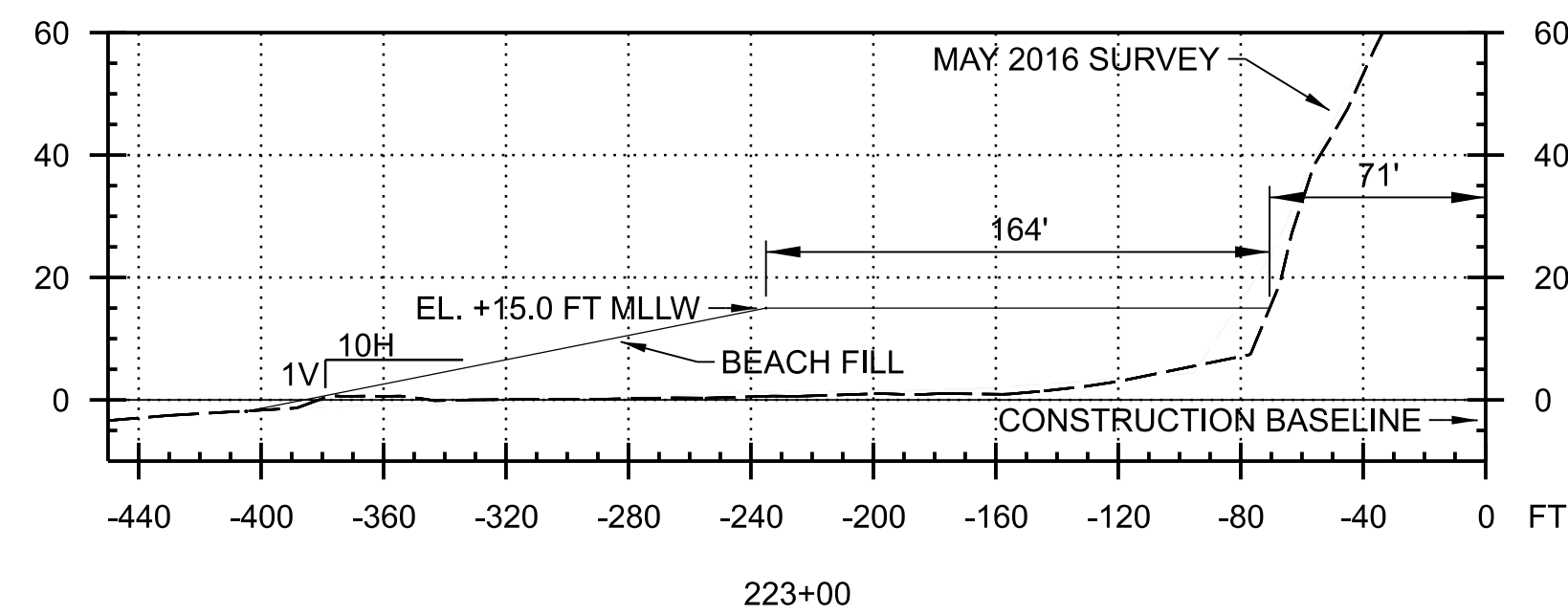
CB304



M6
CB105

J1

STA. 228+00
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VERTICAL SCALE: 1" = 30'

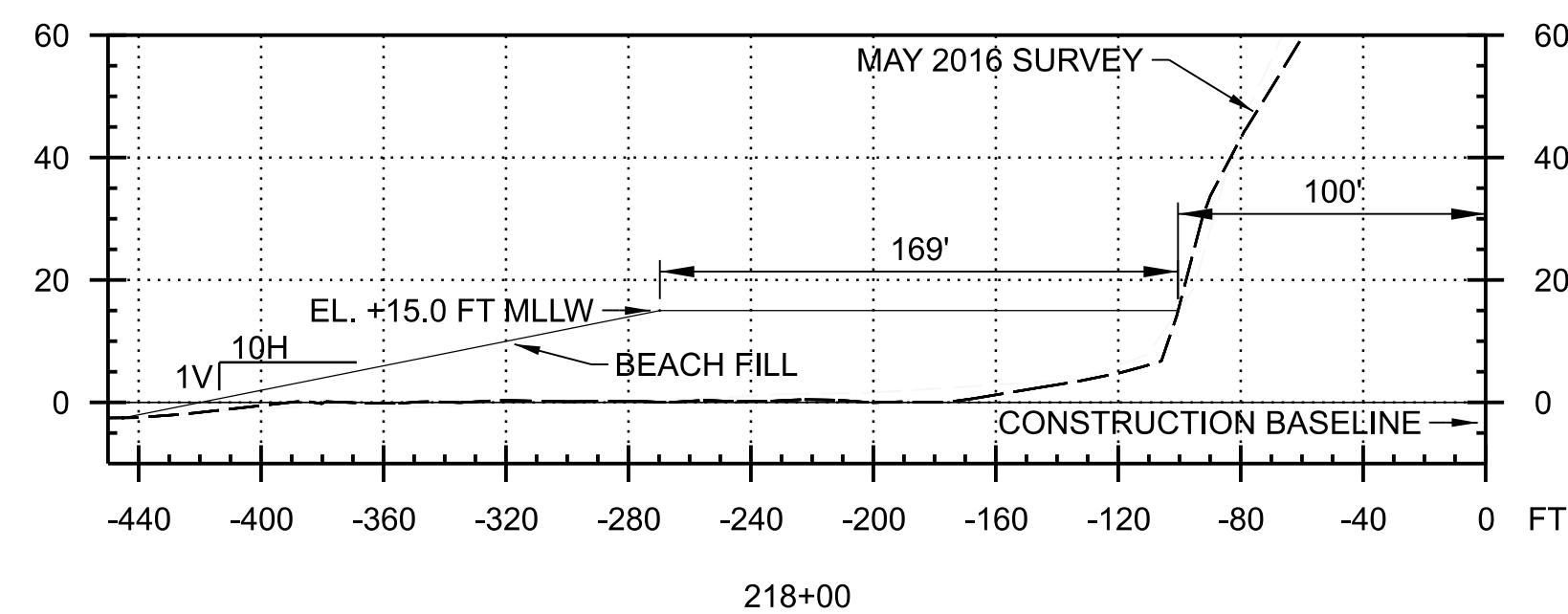


M7
CB105

E1

STA. 223+00

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VERTICAL SCALE: 1" = 30'

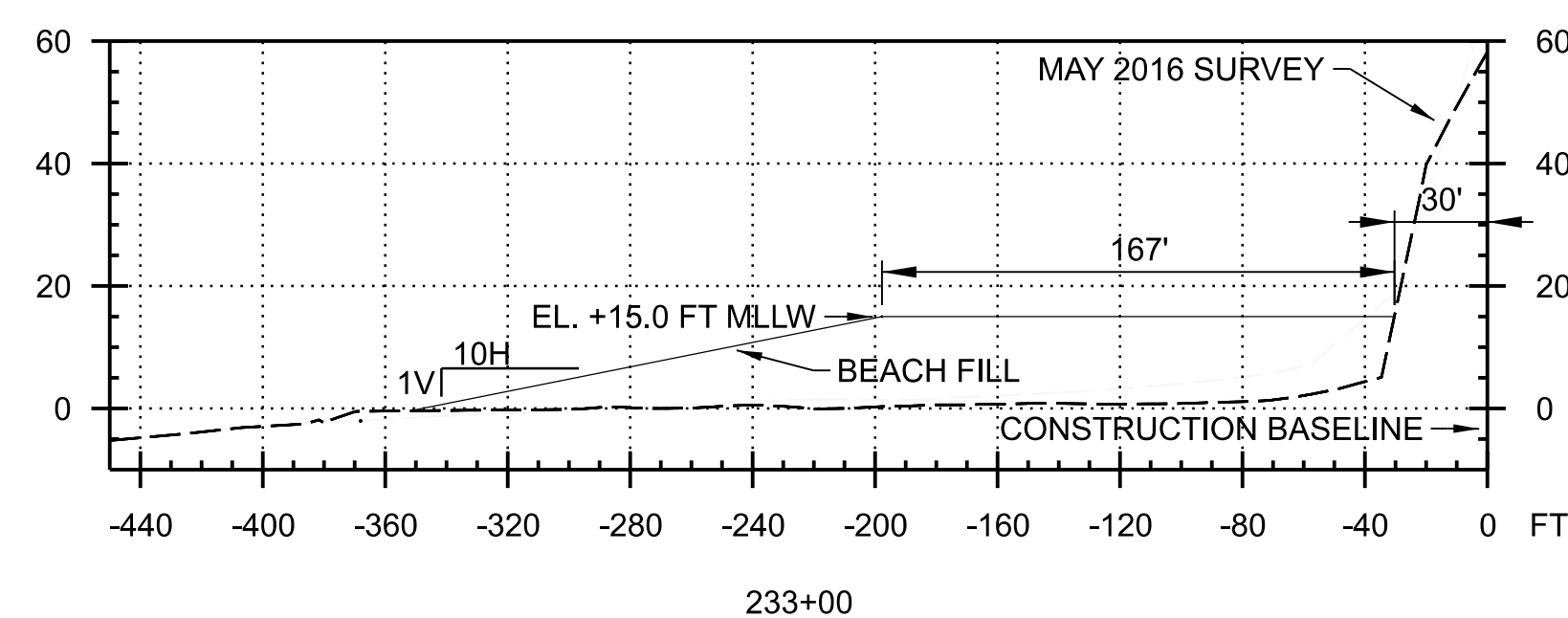


M8
CB105

A1

STA. 218+00

HORIZONTAL SCALE: 1" = 60'
VERTICAL SCALE: 1" = 30'



L4
 CB105

A9

STA. 233+00
 HORIZONTAL SCALE: 1" = 60'
 VERTICAL SCALE: 1" = 30'

[illegible]

915 WILSHIRE BLD. LOS ANGELES, CALIFORNIA 90017	DRAWN BY: C. LODGE	SOLICITATION NO.:
	CHECKED BY: M. WESLEY	CONTRACT NO.:
	SUBMITTED BY:	DISTRICT FILE NUMBER
	SIZE: CAD FILE ANSI D	104716 CB3305.dgn

BEACH PLACEMENT CROSS SECTIONS

LEGEND

MAY 2016 LIDAR SURVEY	-----
BEACH FILL	_____

SHEET NOTES

1. SEE SHEET CB105 FOR TYPICAL CROSS SECTION.
2. SOUNDINGS AND ELEVATIONS, IN SURVEY FEET, INDICATE THE GENERAL CONDITION ONLY AT THE TIME OF SURVEY - MAY, 2016.
3. BEACH FILL ELEVATION HAS A TOLERANCE OF PLUS OR MINUS 1 FOOT.

SHEET ID

CB305