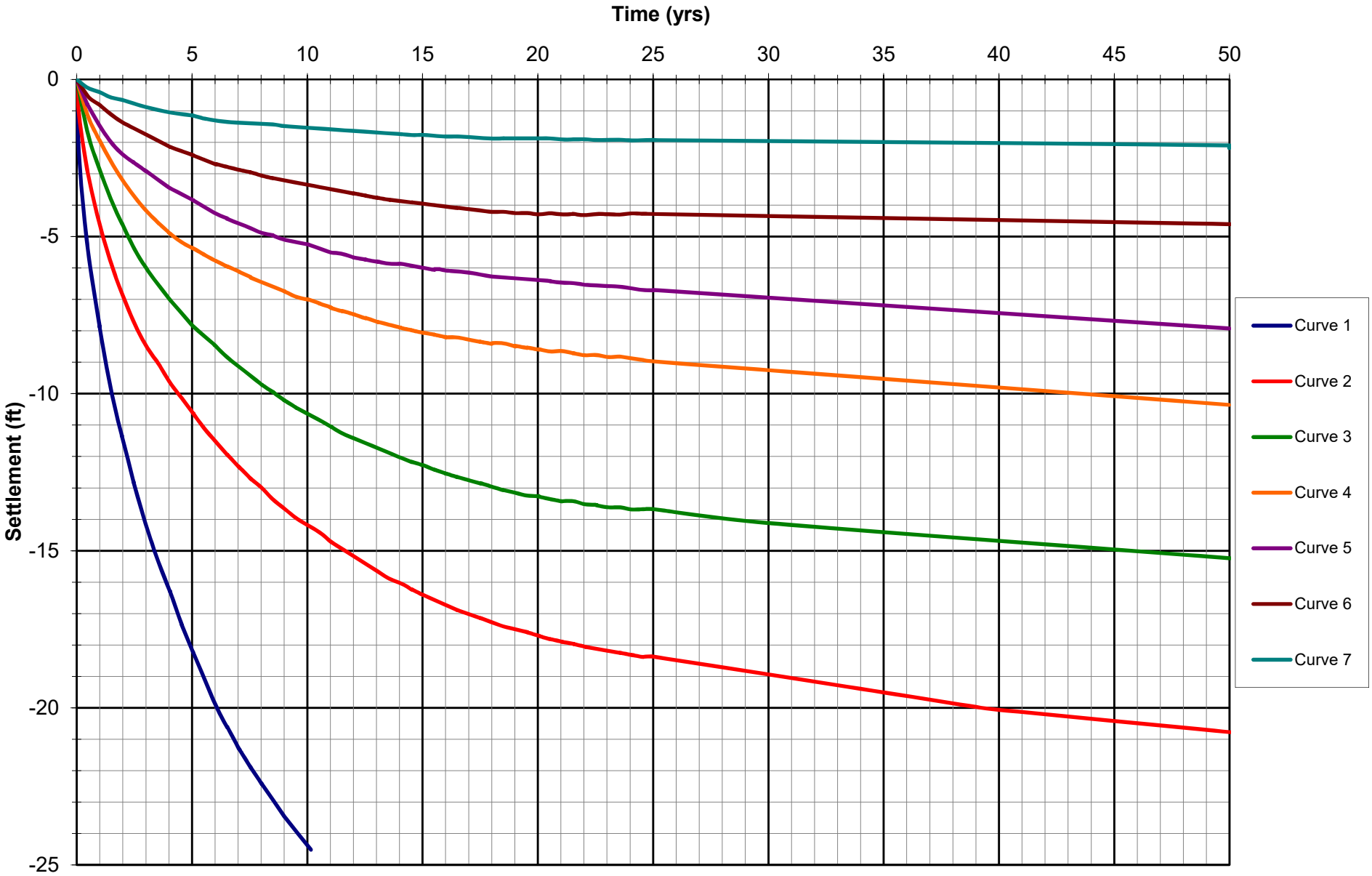
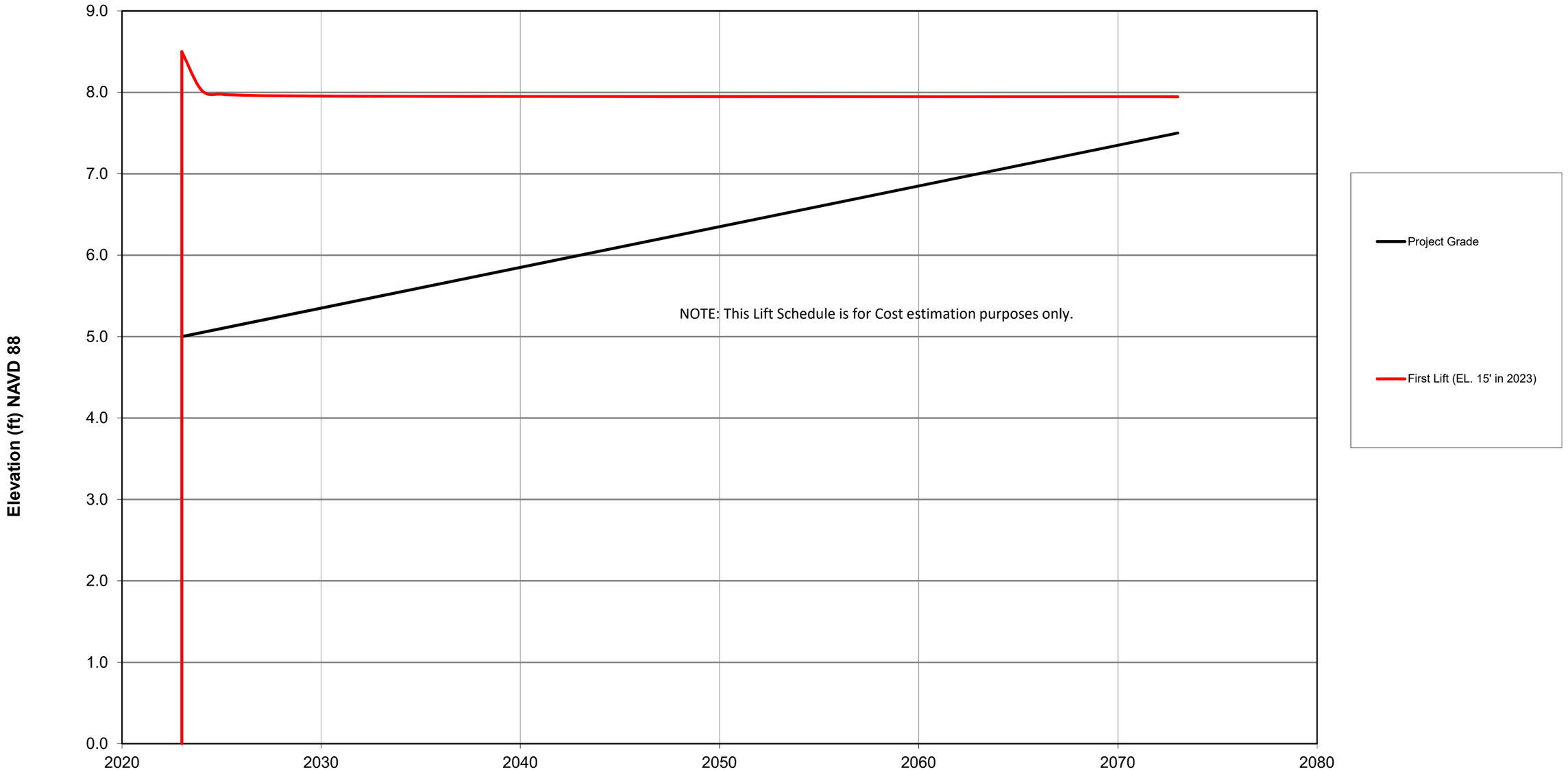
Upper Barataria Basin, LA - Feasibilty Study
Settlement - USACE Family of Curves

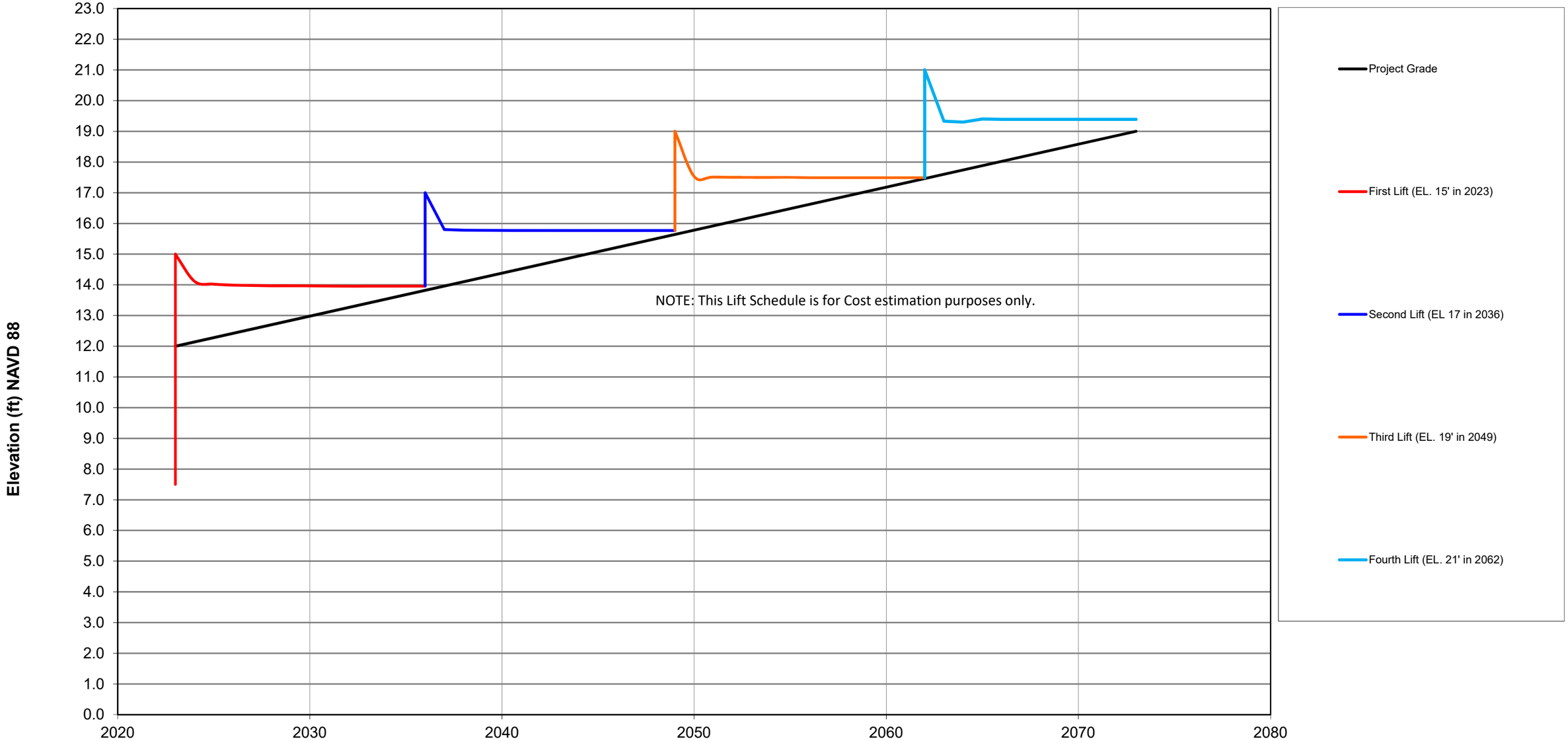


Upper Barataria Basin Lift Schedule for Alternatives 1, 3 , and 5



Note: Time-Rate Settlement Calculations are only an estimate. Time-Rate Settlement may vary from what is shown and is only developed for planning purposes.

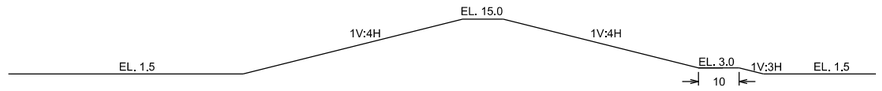
Upper Barataria Basin Lift Schedule - Alternative 6 Reaches A, B and C



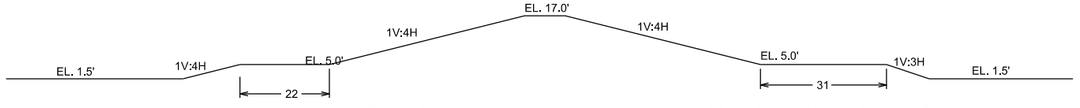
Note: Time-Rate Settlement Calculations are only an estimate. Time-Rate Settlement may vary from what is shown and is only developed for planning purposes.

Upper Barataria Basin Lift Schedule - Alternative 6 - Reaches D, E, F, G, H and K

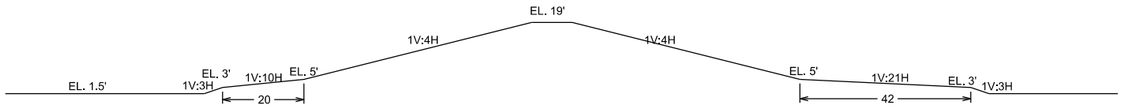
Note: Time-Rate Settlement Calculations are only an estimate. Time-Rate Settlement may vary from what is shown and is only developed for planning purposes.



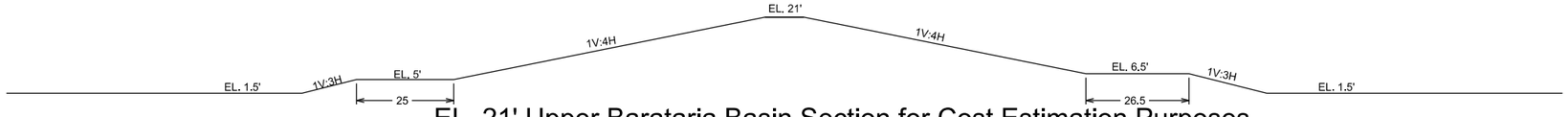
EL. 15' Upper Barataria Basin Section for Cost Estimation Purposes



EL. 17' Upper Barataria Basin Section for Cost Estimation Purposes



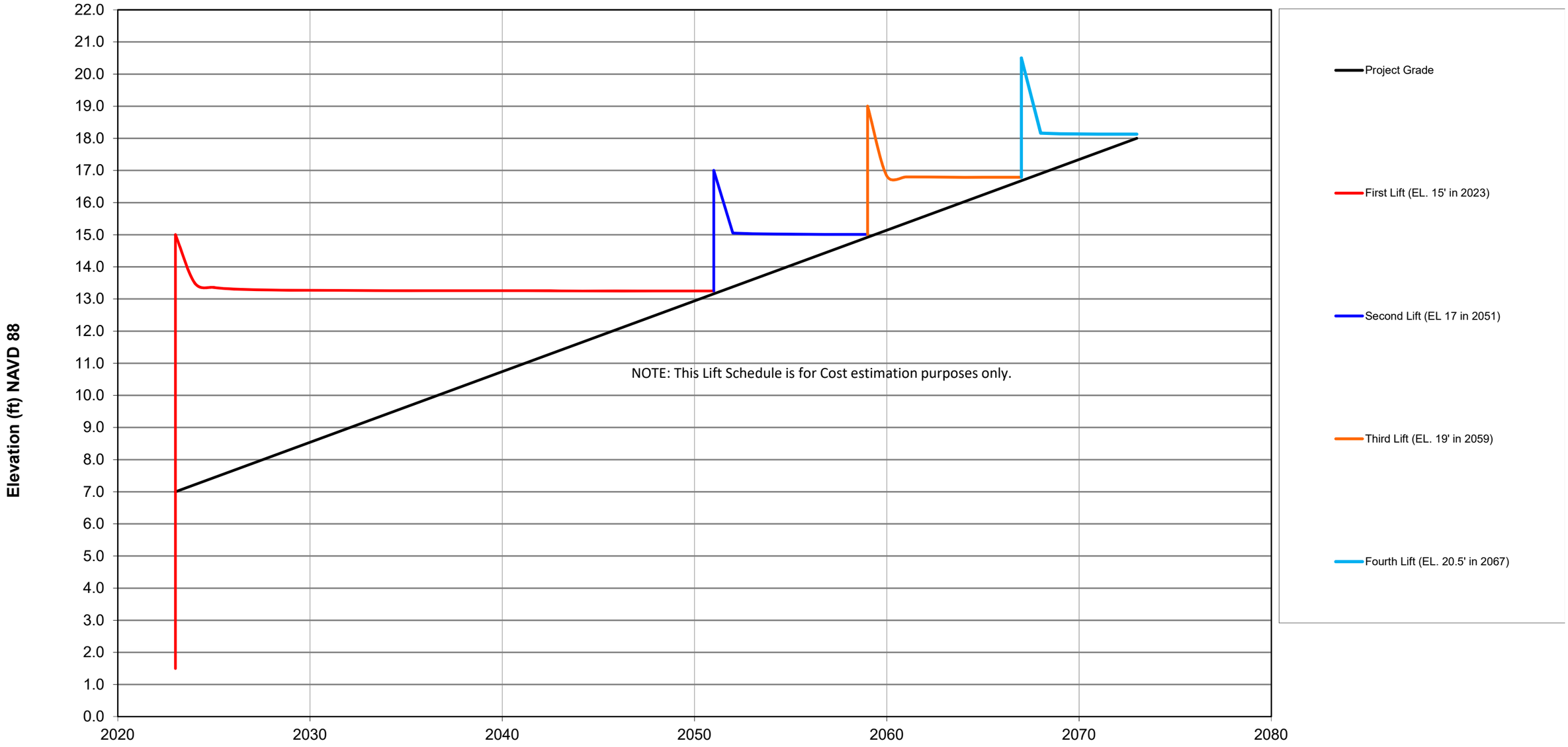
EL. 19' Upper Barataria Basin Section for Cost Estimation Purposes



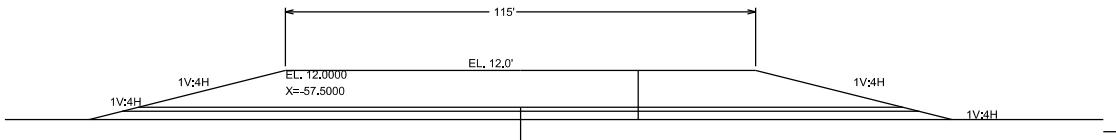
EL. 21' Upper Barataria Basin Section for Cost Estimation Purposes

Alternative 6 - Reaches A, B, C, D, E, F, G, H, and K

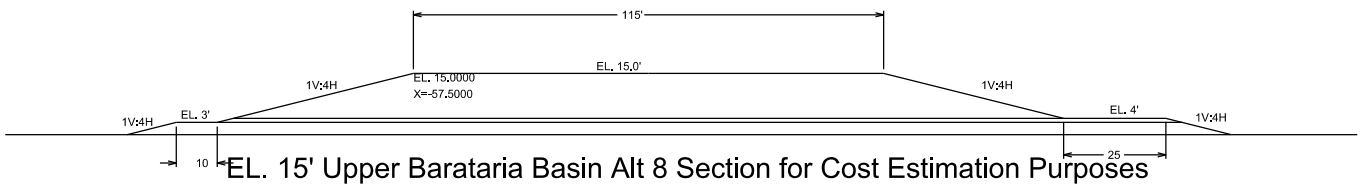
Upper Barataria Basin Lift Schedule For Alternative 8 - Highway



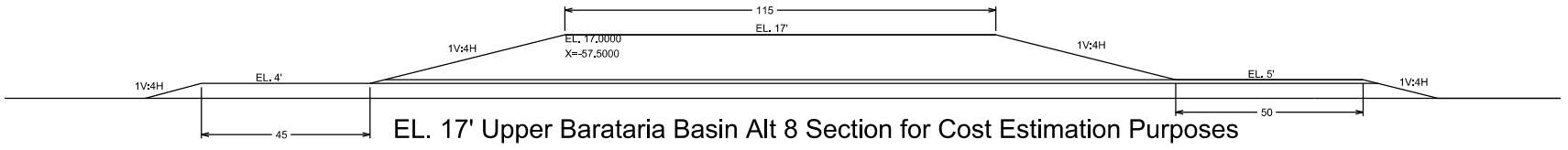
Note: Time-Rate Settlement Calculations are only an estimate. Time-Rate Settlement may vary from what is shown and is only developed for planning purposes.



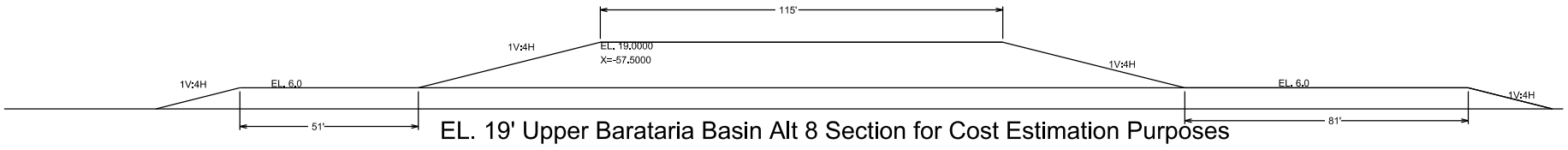
EL. 12' Upper Barataria Basin Alt 8 Section for Cost Estimation Purposes



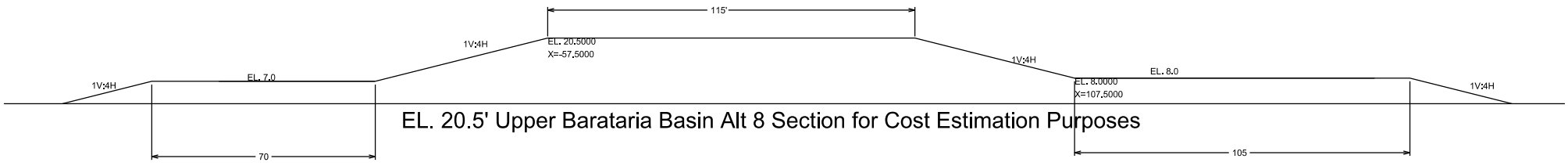
EL. 15' Upper Barataria Basin Alt 8 Section for Cost Estimation Purposes



EL. 17' Upper Barataria Basin Alt 8 Section for Cost Estimation Purposes



EL. 19' Upper Barataria Basin Alt 8 Section for Cost Estimation Purposes



EL. 20.5' Upper Barataria Basin Alt 8 Section for Cost Estimation Purposes

Alternative 8 - Reaches G, H, and I

Alternative 10

Upper Barataria Basin Reaches A,B and C- Lift Schedule

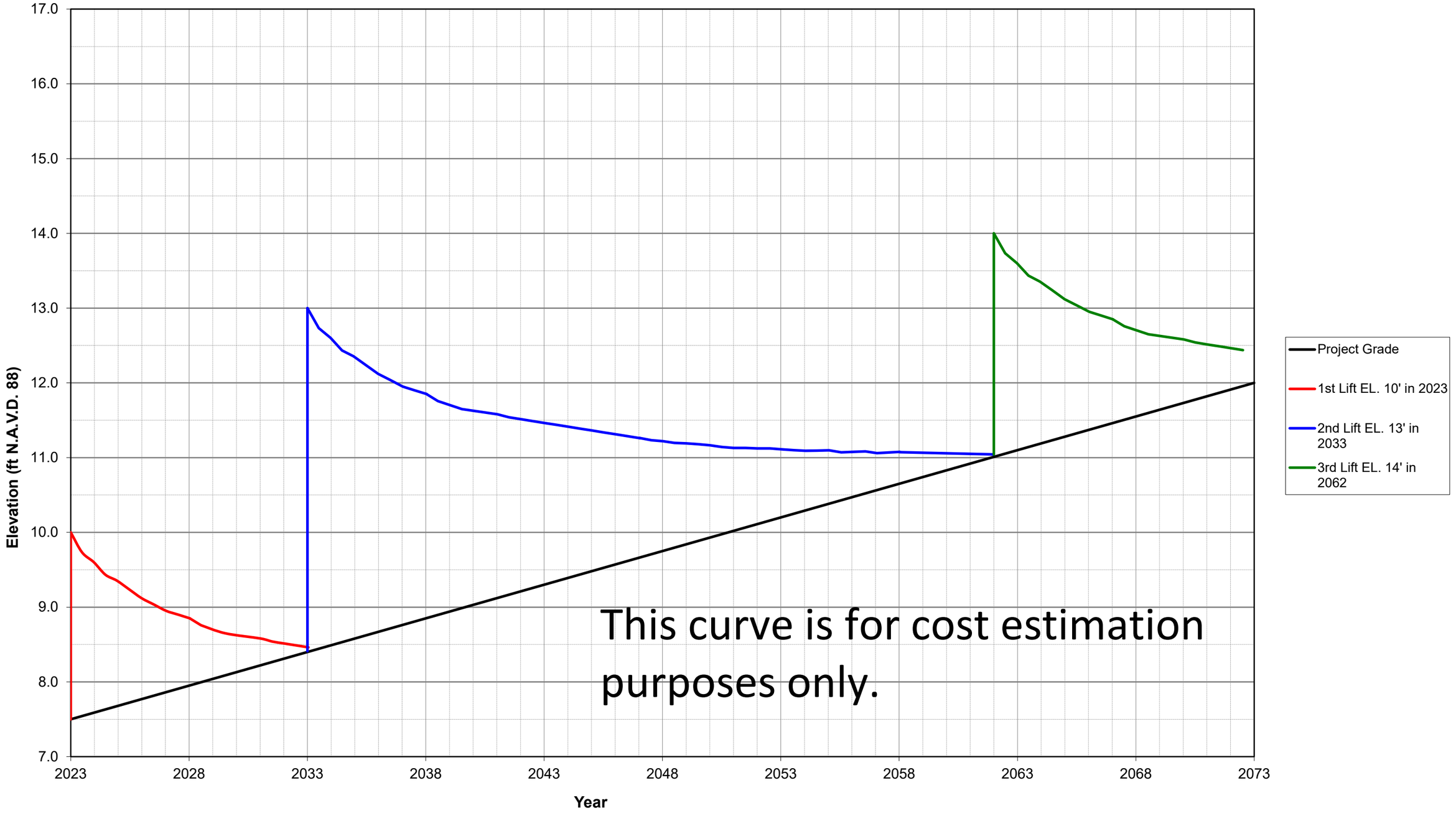


Plate 7

Alternative 10

Upper Barataria Basin Reaches D to F - Lift Schedule

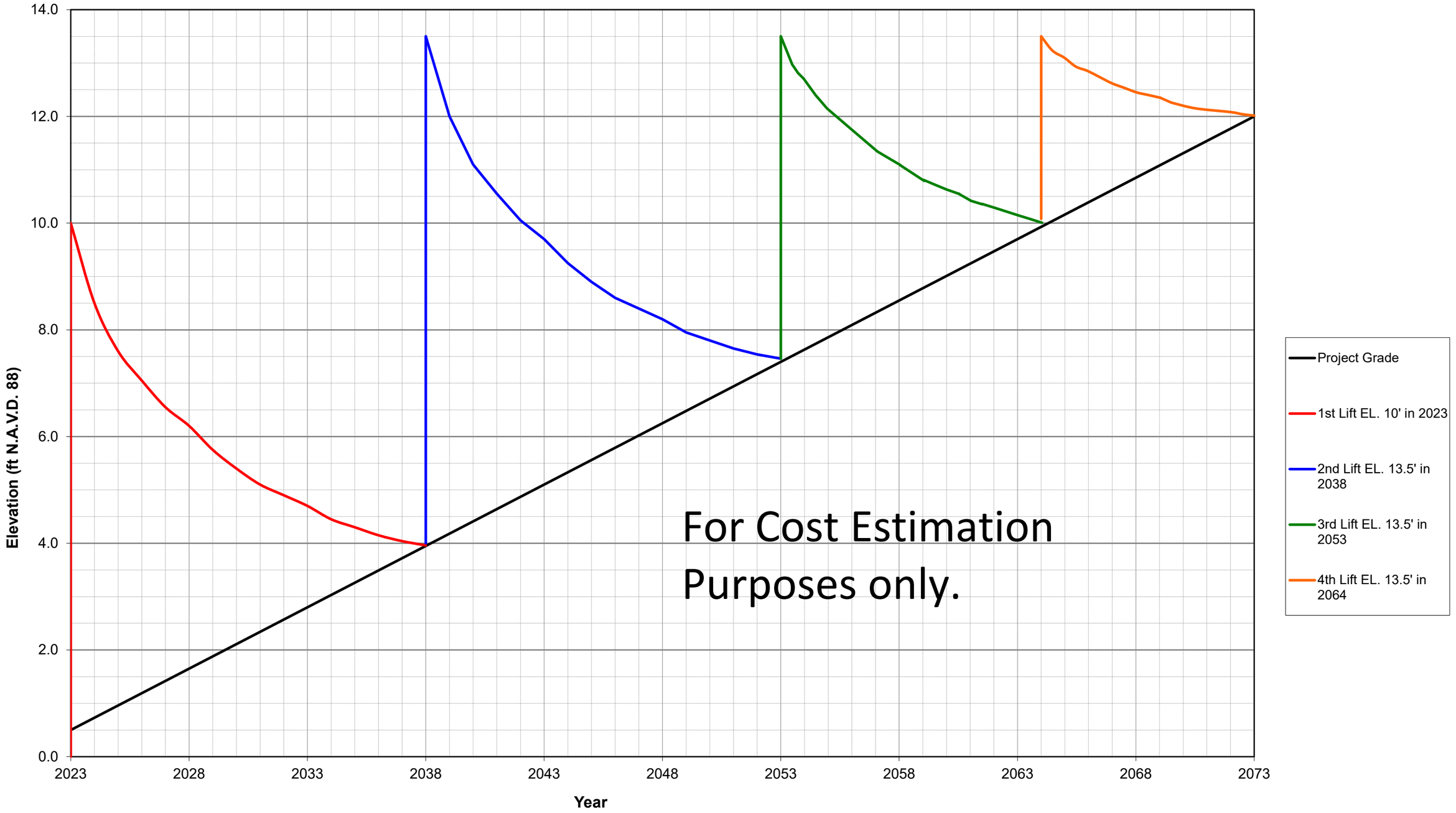
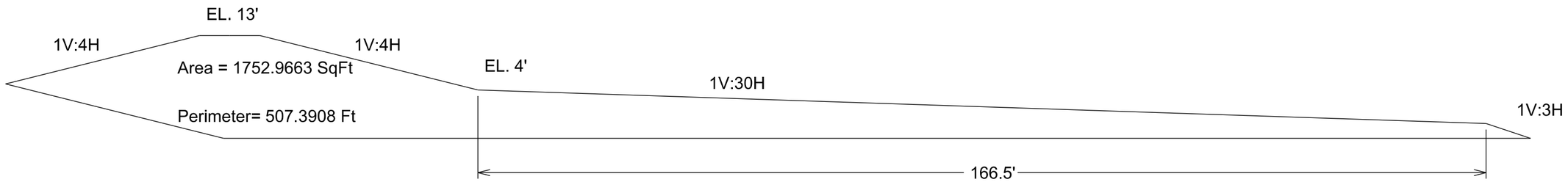


Plate 8

Typical Section used in the cost estimate to compare an alternative with a flood wall to a levee alternative



Typical Section from Appendix 8 of the Conceptual Design Report

Upper Barataria Basin Risk Reducti5on
CPRA Proejct 002HP.06 Segment 2 Typical Section Segment 2

Page 216 of 376 of the pdf. Sheet 13 of 71

Plate 9

- DENOTES APPROXIMATE LOCATIONS OF 5-IN. UNDISTURBED SOIL BORINGS DRILLED BETWEEN APRIL 2014 AND JUNE 2015 FOR THIS PROJECT
- DENOTES APPROXIMATE LOCATIONS OF 3-IN. UNDISTURBED SOIL BORINGS DRILLED BETWEEN APRIL 2014 AND JUNE 2015 FOR THIS PROJECT
- DENOTES APPROXIMATE LOCATIONS OF 5-IN. UNDISTURBED SOIL BORINGS DRILLED IN 1995 AND 2004 UNDER EUSTIS ENGINEERING PROJECT NO. 13194
- DENOTES APPROXIMATE LOCATIONS OF 3-IN. UNDISTURBED SOIL BORINGS DRILLED IN 1995, 2003, AND 2004 UNDER EUSTIS ENGINEERING PROJECT NO. 13194

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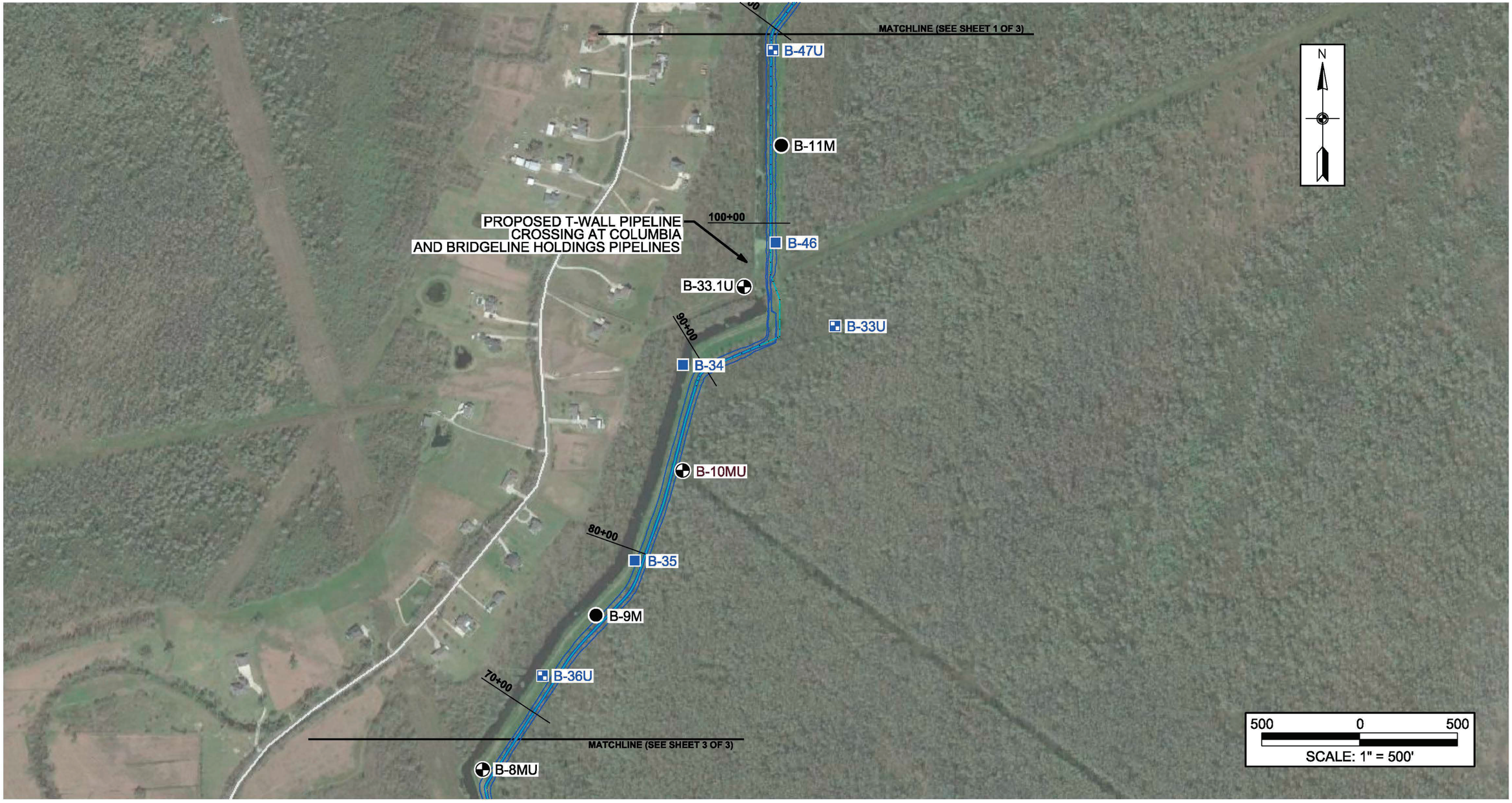
BORING LOCATION PLAN

ST. CHARLES PARISH
MAGNOLIA RIDGE LEVEE PROJECT
REPORT I - EARTHEN LEVEES
ST. CHARLES PARISH, LOUISIANA
ST. CHARLES PARISH PROJECT NO. P080905-6A

DRAWN BY: J.L.S.	PLOT DATE: 12 NOV 15	CADD FILE: REPORT I_PLAN.DGN
CHECKED BY: S.G.W.	JOB NO.: 22557	FIGURE 1 (SHEET 1 OF 3)



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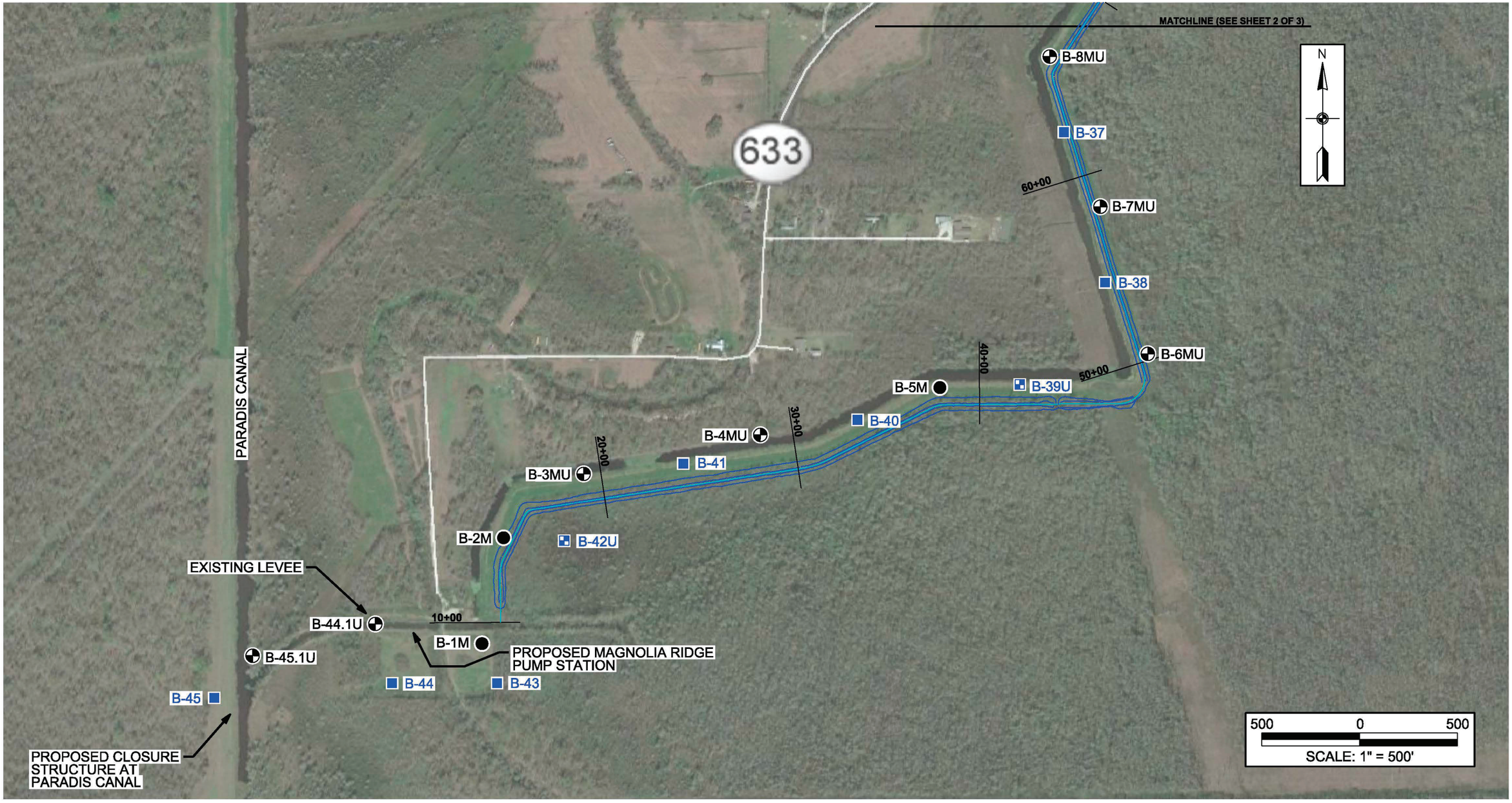
DRAWN BY: J.L.S.	PLOT DATE: 12 NOV 15	CADD FILE: REPORT I_PLAN.DGN
CHECKED BY: S.G.W.	JOB NO.: 22557	FIGURE 1 (SHEET 2 OF 3)



- DENOTES APPROXIMATE LOCATIONS OF 5-IN. UNDISTURBED SOIL BORINGS DRILLED BETWEEN APRIL 2014 AND JUNE 2015 FOR THIS PROJECT
- DENOTES APPROXIMATE LOCATIONS OF 3-IN. UNDISTURBED SOIL BORINGS DRILLED BETWEEN APRIL 2014 AND JUNE 2015 FOR THIS PROJECT
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- DENOTES APPROXIMATE LOCATIONS OF 3-IN. UNDISTURBED SOIL BORINGS DRILLED IN 1995, 2003, AND 2004 UNDER EUSTIS ENGINEERING PROJECT NO. 13194

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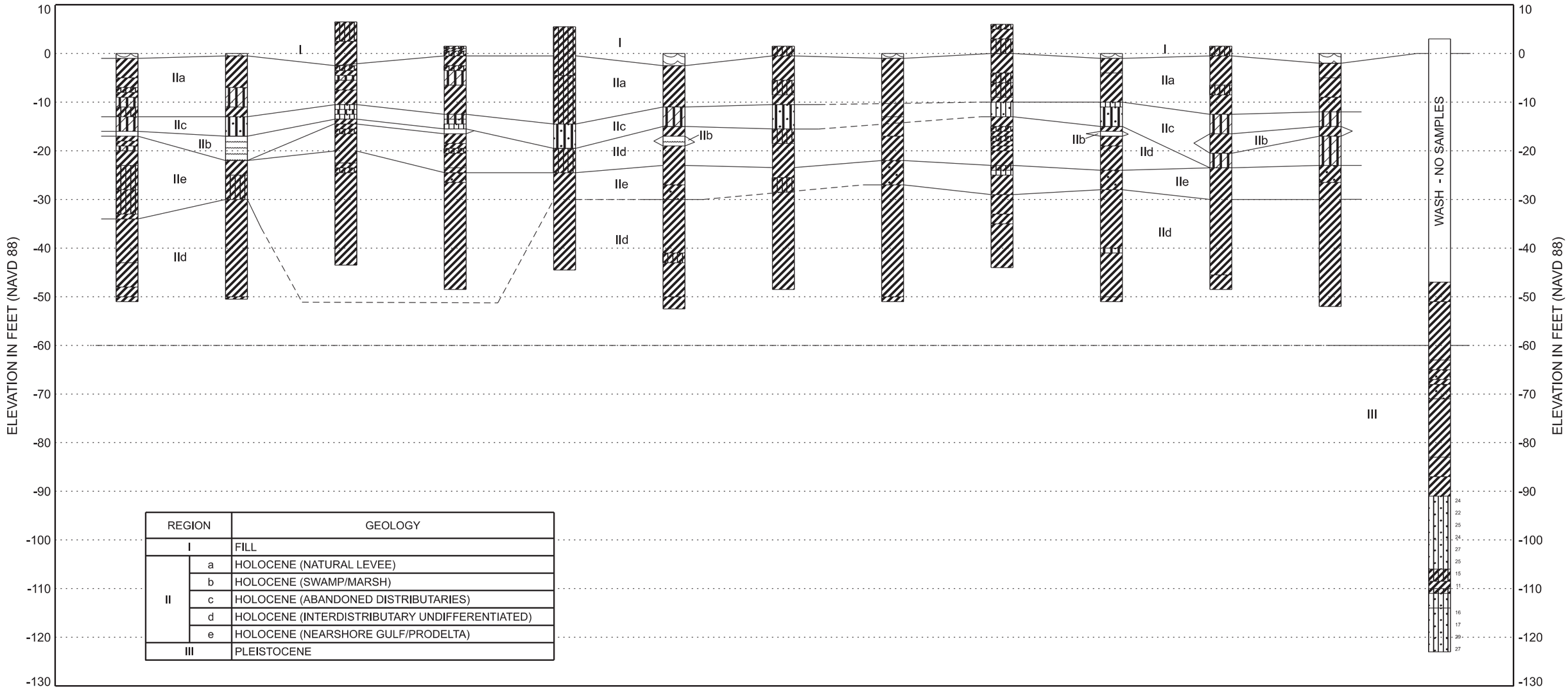
CHECKED BY: S.G.W.	JOB NO.: 22557	FIGURE 1 (SHEET 3 OF 3)

B-51	B-50	B-16MU	B-15MU	B-14M	B-49U	B-13M	B-48	B-12MU	B-47U	B-11M	B-46	B-33.1U
04 NOV 04	02 NOV 04	16 JUN 14	17 JUN 14	18 JUN 14	01 NOV 04	19 JUN 14	29 OCT 04	25 JUN 14	01 NOV 04	26 JUN 14	01 NOV 04	18 MAY 15
29°53'28.98"	29°53'25.8"	29°53'18.78"	29°53'15.12"	29°33'28.8"	29°53'5.6"	29°53'4.02"	29°52'59.6"	29°52'56.58"	29°52'58.2"	29°52'47.28"	29°52'42.2"	29°52'39"
-90°23'9.96"	-90°23'17"	-90°23'22.26"	-90°23'25.92"	-90°23'29.4"	-90°23'30.4"	-90°23'35.82"	-90°23'38.6"	-90°23'41.88"	-90°23'43.9"	-90°23'44.16"	-90°23'44.8"	-90°23'44.4001"
G.S.E. 0.00	G.S.E. 0.00	G.S.E. 6.50	G.S.E. 1.50	G.S.E. 5.50	G.S.E. 0.00	G.S.E. 1.50	G.S.E. 0.00	G.S.E. 6.00	G.S.E. 0.00	G.S.E. 1.50	G.S.E. 0.00	G.S.E. 3.00



REGION		GEOLOGY
I		FILL
II	a	HOLOCENE (NATURAL LEVEE)
	b	HOLOCENE (SWAMP/MARSH)
	c	HOLOCENE (ABANDONED DISTRIBUTARIES)
	d	HOLOCENE (INTERDISTRIBUTARY UNDIFFERENTIATED)
	e	HOLOCENE (NEARSHORE GULF/PRODELTA)
III		PLEISTOCENE

BORING MATERIAL GRAPHICS

- CLAY
- SILTY CLAY
- SANDY CLAY
- SAND
- SILTY SAND
- CLAYEY SAND
- SANDY SILT
- CLAYEY SILT
- ORGANIC CLAY
- PEAT/HUMUS
- WOOD
- SHELLS
- WATER

NOTE:

NUMBERS TO THE RIGHT OF THE BORING LOGS ARE STANDARD PENETRATION TEST (SPT) RESULTS (I.E., "N-VALUES").

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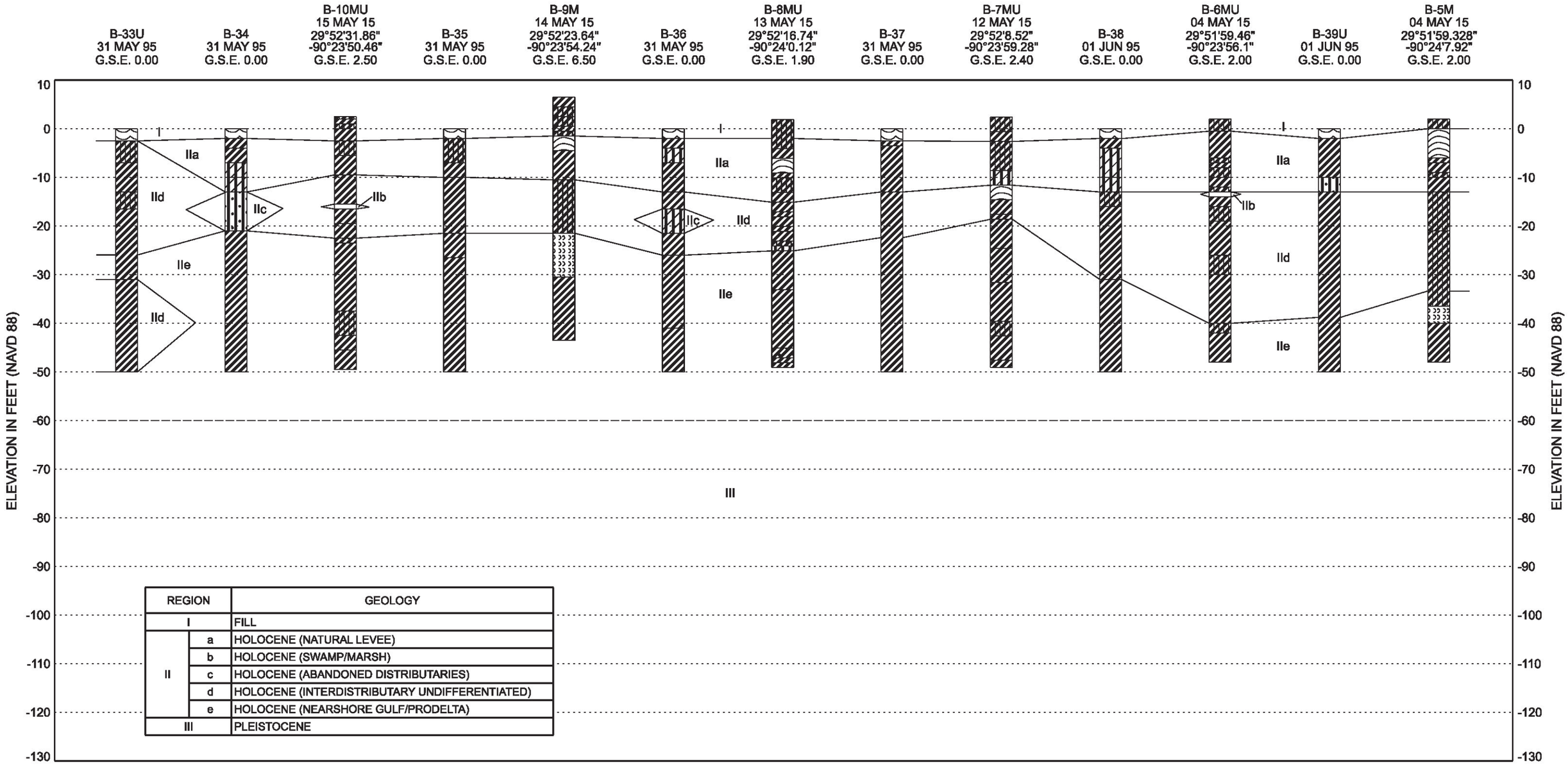
DRAWN BY: J.L.S.	PLOT DATE: 12 NOV 15	CADD FILE: PROFILE.DGN
CHECKED BY: S.G.W.	JOB NO.: 22557	FIGURE 2 (SHEET 1 OF 3)



REGION		GEOLOGY
I		FILL
II	a	HOLOCENE (NATURAL LEVEE)
	b	HOLOCENE (SWAMP/MARSH)
	c	HOLOCENE (ABANDONED DISTRIBUTARIES)
	d	HOLOCENE (INTERDISTRIBUTARY UNDIFFERENTIATED)
	e	HOLOCENE (NEARSHORE GULF/PRODELTA)
III		PLEISTOCENE

BORING MATERIAL GRAPHICS

- CLAY
- SILTY CLAY
- SANDY CLAY
- SAND
- SILTY SAND
- CLAYEY SAND
- SANDY SILT
- CLAYEY SILT
- ORGANIC CLAY
- PEAT/HUMUS
- WOOD
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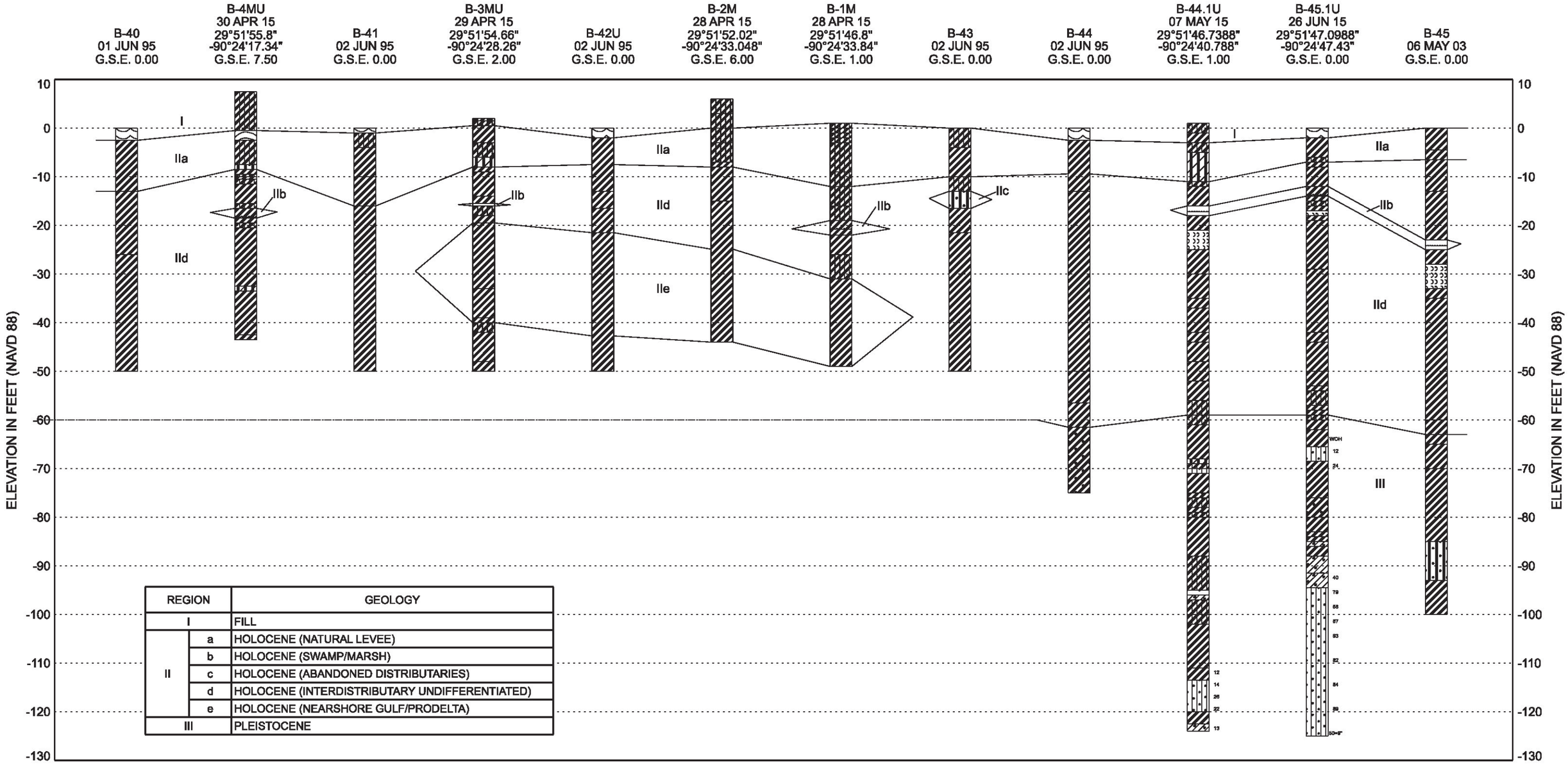
DRAWN BY: J.L.S.	PLOT DATE: 12 NOV 15	CADD FILE: PROFILE.DGN
CHECKED BY: S.G.W.	JOB NO.: 22557	FIGURE 2 (SHEET 2 OF 3)



REGION		GEOLOGY
I		FILL
II	a	HOLOCENE (NATURAL LEVEE)
	b	HOLOCENE (SWAMP/MARSH)
	c	HOLOCENE (ABANDONED DISTRIBUTARIES)
	d	HOLOCENE (INTERDISTRIBUTARY UNDIFFERENTIATED)
	e	HOLOCENE (NEARSHORE GULF/PRODELTA)
III		PLEISTOCENE

BORING MATERIAL GRAPHICS

- CLAY
- SILTY CLAY
- SANDY CLAY
- SAND
- SILTY SAND
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- SANDY SILT
- CLAYEY SILT
- ORGANIC CLAY
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NOTE:

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NATURAL MOISTURE CONTENT (%)

TOTAL UNIT WEIGHT (γ) IN PCF

UNDRAINED SHEAR STRENGTH (S_U) IN PSF

ELEVATION IN FEET (NAVD88)

EFFECTIVE OVERBURDEN STRESS (P'o) IN PSF

γ=115
γ=112
γ=112
γ=112
γ=80
γ=102
γ=107
γ=102
γ=102
γ=105
γ=98
γ=120

S_u=700
S_u=500
S_u=450
S_u=400 (SEE NOTE 7)
S_u=350
$S_{u(TOP)}$ = 250
S_u=14 PSF/FT
$S_{u(BOT)}$ = 700
S_u=700
S_u=850

EL. 6
EL. 1.5
EL. -5
EL. -10
EL. -13
EL. -18
EL. -25
EL. -30
EL. -35
EL. -40
EL. -50
EL. -58
EL. -80

B-51 (EE13194)
B-50 (EE13194)
B-49U (EE13194)
B-48 (EE13194)
B-47U (EE13194)
B-46 (EE13194)
B-45 (EE13194)
B-44 (EE13194)
B-43 (EE13194)
B-42U (EE13194)
B-41 (EE13194)
B-40 (EE13194)
B-39U (EE13194)
B-38 (EE13194)
B-37 (EE13194)
B-36U (EE13194)
B-35 (EE13194)
B-34 (EE13194)
B-33U (EE13194)
B-1M
B-2M
B-3MU
B-4MU
B-5M
B-6MU
B-7MU
B-8MU
B-9M
B-10MU
B-11M
B-12MU
B-13M
B-14M
B-15MU
B-16MU
B-33.1U
B-44.1U
B-45.1U
B-10MU (CU)
B-7MU (CU)

NOTES:

1. SOIL BORING LOGS ARE PROVIDED IN APPENDIX I(a). LABORATORY TEST REPORTS ARE SHOWN IN APPENDIX I(b) (SHEAR) AND I(c) (CONSOLIDATION). SOIL BORING LOGS FROM PREVIOUS PROJECTS ARE SHOWN IN APPENDIX II.

2. UNIT WEIGHTS SHOWN ARE TOTAL UNIT WEIGHTS AND MUST BE APPROPRIATELY REDUCED TO ESTIMATE EFFECTIVE STRESS STATES.

3. UNDRAINED SHEAR STRENGTHS SHOWN IN RED WERE BACK-CALCULATED USING THE SHANSEP EQUATION WITH PAST MAXIMUM PRESSURES OBTAINED FROM THE CONSOLIDATION TESTS AND ASSUMING THE S_U/P'_O RATIO FOR NORMALLY CONSOLIDATED SOIL AT THIS SITE IS 0.25 AND THAT m=0.80.

4. AVERAGE GROUND TAKEN AS EL.1.5 ACROSS PROJECT SITE. AVERAGE TOP OF LEVEE AT EL 6. PARAMATERS ABOVE EL 1.5 REPRESENT THE EXISTING LEVEE THAT WILL BE DEGRADED AS PART OF THIS PROJECT. GEOTECHNICAL DATA EVALUATION TO EL -80.

5. DESIGN PROFILES SHOWN CANNOT FULLY ANTICIPATE ALL PARAMETERS WHICH MAY INFLUENCE SELECTION OF DESIGN VALUES FOR A SPECIFIC ANALYSIS. FOR THIS REASON, THE USER SHOULD CONTACT EUSTIS ENGINEERING SERVICES, L.L.C. PRIOR TO USE OF DESIGN PROFILES IN ANY ANALYSES.

6. FOR S-CASE (DRAINED SHEAR STRENGTHS) WE RECOMMEND USING ϕ=23° FOR ALL CLAY STRATA AND ϕ=28° FOR ALL SILT STRATA.

7. ALTERNATE CONDITION FOR EL -10 TO EL -13 INCLUDES A SEMI-COHESIVE MATERIAL (I.E., SILT) USING AN UNDRAINED COHESION OF 200 PSF AND UNDRAINED FRICTION ANGLE OF 15 DEGREES.

3-POINT "UU" TESTS ARE GREEN
3-POINT "CU" TESTS ARE YELLOW
CONSOLIDATION TESTS ARE RED
UC TESTS ARE BLUE

Su/P'o =0.17 from el 1.5
P'o & Su/P'o = 0.25 from el 1.5
SHEAR STRENGTH DESIGN LINE
Su/P'o =0.31 from el 1.5

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SOIL DESIGN PARAMETERS

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ST. CHARLES PARISH PROJECT NO. P080905-6A

DRAWN BY: S.G.W.	5 OCTOBER 2015	FILE: LEVEE.grf
CHECKED BY: S.G.W.	JOB NO.: 22557	FIGURE 3

Plate 16

Holocene should not use ocr > 1.1 (???)

WATER CONTENT (%)

COMPRESSION RATIO (CR)

RECOMPRESSION RATIO (RR)

OVERCONSOLIDATION RATIO (OCR)

COEFFICIENT OF CONSOLIDATION (Cv) IN FT²/YEAR

ELEVATION, FT NAVD 88

EL. -5
EL. -10
EL. -13
EL. -18
EL. -25
EL. -30
EL. -35
EL. -40
EL. -50
EL. -58
EL. -80

CR=0.16
RR=0.05
OCR=3.3
0.523
0.135
2.1.2
0.36
0.050
0.32
0.075
1.2
0.345
0.075
0.07
1.2
0.324
1.4
RR Test
0.420
0.285
Pleistocene
CR=0.277
3.0.2
RR=0.042
15%

B-3MU, 6B; B-4MU, 9B; B-6MU, 4C; B-7MU, 8C; B-8MU, 6C; B-10MU, 14C; B-12MU, 13B; B-15MU, 8B; B-16MU, 7B; B-33.1U, 10B; B-33.1U, 10B; B-44.1U, 6C; B-44.1U, 11C; B-44.1U, 15C; B-45.1U, 8C; B-45.1U, 13C; B-35, 9 (EE13194); B-40, 2 (EE13194); B-44, 5 (EE13194); B-47, 10C (EE13194); B-47, 3B (EE13194); B-49, 13C (EE13194); B-49, 5C (EE13194); B-51, 2B (EE13194); B-51, 8C (EE13194); SHANSEP_OCR

m = 0.8
S = 0.25

Plate 17

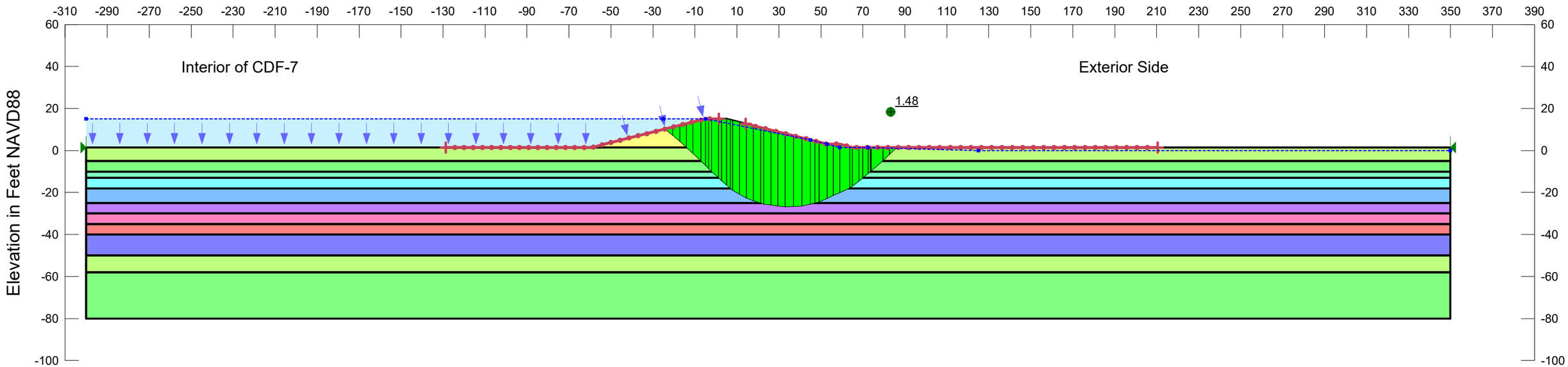
Homogeneous CL and CH sedimentary clays of low to moderate sensitivity (I_p = 20%–80%):
$S = 0.20 + 0.05I_p$, or simply $S = 0.22$.
$m = 0.88(1 - C_s/C_c) \pm 0.06$ SD, or simply $m = 0.8$.
Sedimentary deposits of silts and organic soils (Atterberg limits plot below the A-line, but excluding peats) and clays with shells:
$S = 0.25$, with nominal SD = 0.05.
$m = 0.88\ (1 - C_s/C_c) \pm 0.06$ SD, or simply $m = 0.8$.

$\frac{c'_u}{\sigma'_{vc}} = S(OCR)^m$

0.8 = m
0.25 = S

EE 22557
Magnolia Ridge
Consolidation Test Summary

No.	Boring	Sample	Boring El. (feet)	Sample Depth (feet)	Sample El. (feet)	USCS	w%	Cc	Cs	eo	CR	RR Based on Consol Test	Theoretical RR=.15*CR	Dry Unit Weight (pcf)	Moist Unit Weight, (pcf)	Approximate P'o (Psf)	Approximate P'o (tsf)	Approximate P'c (tsf)	OCR = P'$_c$/P'$_o$	S_u= P'o*S*(OCR)^m	C_{v_R}	C_v (sq.ft/year)	Remarks ~~Shear test psf~~
1	B12MU	13B	6.0	45.0	-39.0	CH	59.1	0.911	0.202	1.674	0.341	0.076	0.051	63.6	101.2	2005.0	1.00	1.81	1.81	804	45	7.00	591
2	B15MU	8B	1.5	25.0	-23.5	CH	46.3	0.628	0.075	1.674	0.235	0.028	0.035	71.2	104.2	1042.0	0.52	1.15	2.21	491	66	32.85	268
3	B16MU	7B	6.5	21.0	-14.5	CH	66.0	0.968	0.171	1.925	0.331	0.059	0.050	58.5	97.1	960.6	0.48	1.10	2.29	466	73	29.20	320
4	B3MU	6B	2.0	17.0	-15.0	OH	200.8	3.279	0.858	5.268	0.523	0.137	0.078	24.4	73.4	856.2	0.43	1.92	4.48	711	18	3.65	1503
5	B4MU	9B	7.5	25,0	-17.5	OH	79.9	0.989	0.240	2.126	0.316	0.077	0.047	52.9	95.2	1363.0	0.68	1.05	1.54	482	29	14.60	788
6	B6MU	~ 4C	2.0	10.0	-8.0	CL	36.7	0.264	0.026	1.044	0.129	0.012	0.019	82.5	112.8	546.0	0.27	1.95	7.14	658	365	365.00	306/205
7	B7MU	8C	2.4	23.0	-20.6	CH	58.6	0.807	0.134	1.680	0.301	0.050	0.045	62.9	99.8	1030.0	0.52	1.55	3.01	622	219	36.50	CU=381; UU=755
8	B8MU	6C	1.9	17.0	-15.1	CH	50.4	0.549	0.168	1.602	0.211	0.064	0.032	65.3	98.2	912.2	0.46	1.25	2.74	511	29	14.60	475
9	B10MU	14C	2.5	50.0	-47.5	CH	46.9	0.779	0.170	1.405	0.324	0.071	0.049	71.1	104.4	2181.0	1.09	1.45	1.33	685	32	3.65	679
10	B33.1U	~ 10B 3" ~~PSH~~	3.0	87.0	-84.0	CH	42.4	0.598	0.234	1.159	0.277	0.108	0.042	78.7	112.1	4205.2	2.10	6.60	3.14	2625	/	40.15	UU 1561 / 1846 (UC)
11	B33.1U	~~X~~ 10B BAD TEST	3.0	87.5	-84.5	CH	41.7	0.153	0.116	1.142	0.071	0.054	0.011	79.3	112.4	4205.2	2.10	2.08 BAD TEST	0.99	1042	29	1.83	UU=1561; 1846=UC
12	B44.1U	6C	1.0	18.5	-17.5	OH	59.6	0.749	0.189	1.548	0.294	0.074	0.044	63.7	101.7	985.6	0.49	1.08	2.19	462	40	40.15	1165
13	B44.1U	11C	1.0	38.5	-37.5	CH	53.9	0.558	0.144	1.466	0.226	0.058	0.034	68.8	105.9	1881.0	0.94	1.10	1.17	533	29	~~0.00~~	492
14	B44.1U	15C	1.0	54.5	-53.5	CH	66.8	1.103	0.242	1.866	0.385	0.084	0.058	59.7	99.6	2526.5	1.26	1.86	1.47	861	22	~~7.30~~ 3.65	1460
15	B45.1U	8C	0.0	32.5	-32.5	CH	68.6	0.908	0.220	1.922	0.311	0.075	0.047	58.1	98.0	1356.0	0.68	0.94	1.39	440	40	~~3.65~~ 4	588
16	B45.1U	~~X~~ 13C	0.0	52.5	-52.5	CH	65.5	0.806	0.149	1.904	0.278	0.051	0.042	58.9	97.5	2108.0	1.05	0.96 BAD TEST	0.91 BAD TEST	489	N/A	~~1.83~~	232
24	B35	9	0.0	34.0	-34.0	CH	73.0	0.950		2.023	0.314	0.025	0.047	56.6	97.9	1513.0	0.76	1.10	1.45	510	7.3	3.65	
25	B40	2	0.0	6.0	-6.0	CH	40.6	0.320		1.134	0.150	0.012	0.022	79.6	111.9	301.0	0.15	1.40	9.30	448	18	10.95	
26	B44	5	0.0	15.0	-15.0	CH	56.5	0.570		1.562	0.222	0.012	0.033	66.8	104.5	715.0	0.36	1.30	3.64	502	9	4.75	
27	B47	3B	0.0	9.0	-9.0	CH	41.4	0.380		1.130	0.178	0.050	0.027	79.7	112.7	441.0	0.79	2.66	3.35	1044	26	5.00	
28	B47	10C	0.0	38.0	-38.0	CH	63.7	0.970		1.781	0.349	0.060	0.052	61.5	100.7	1587.0	0.47	1.27	2.68	521	/	4.00	
29	B49	5C	0.0	21.5	-21.5	CH	60.7	0.980		1.679	0.366	0.030	0.055	63.4	101.9	948.0	0.47	1.00	2.11	431	22	3.65	
30	B49	13C	0.0	52.5	-52.5	CH	71.1	1.250		1.980	0.419	0.060	0.063	57.4	98.2	2166.5	1.08	1.75	1.62	795	48	3.65	
31	B51	2B	0.0	5.0	-5.0	CH	43.5	0.370		1.276	0.163	0.050	0.024	75.2	107.9	245.0	0.12	1.40	11.43	430	~~44~~	3.65	
32	B51	8C	0.0	30.0	-30.0	CL	38.4	0.360		1.084	0.173	0.010	0.026	71.3	98.7	1325.0	0.66	1.23	1.86	543	923	146.00	



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US Army Corps of Engineers
New Orleans District

Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 6

Construction Grade - Entry Exit Slip Surface
Louisiana

File Name: UBBFootPrintMagnolia2007VersionEL15W07242019.gsz
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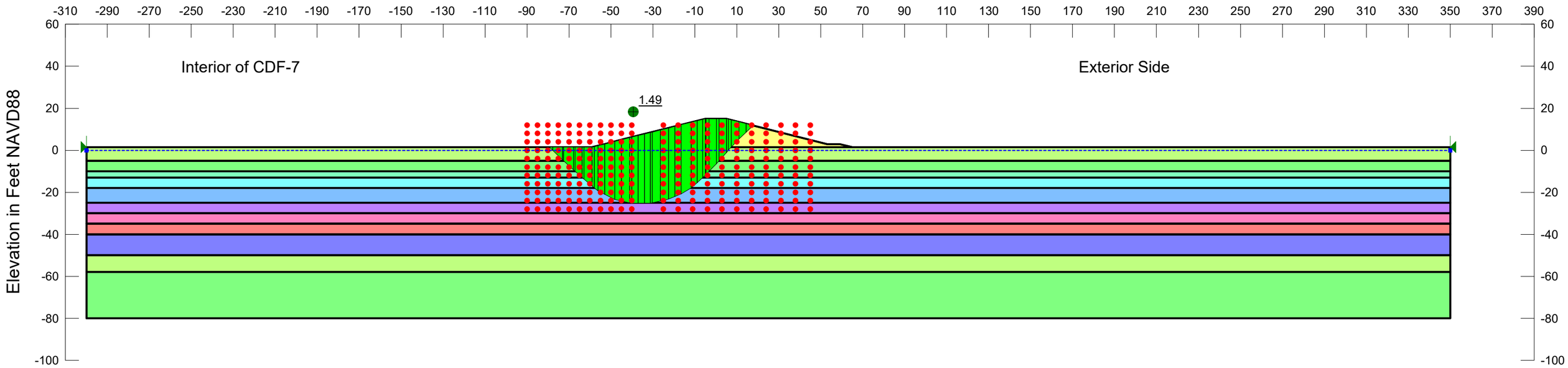

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US Army Corps of Engineers
New Orleans District

Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 6

Low Water Level - Block Slip Surface
Louisiana

File Name: UBBFootPrintMagnolia2007VersionEL15W07242019.gsz
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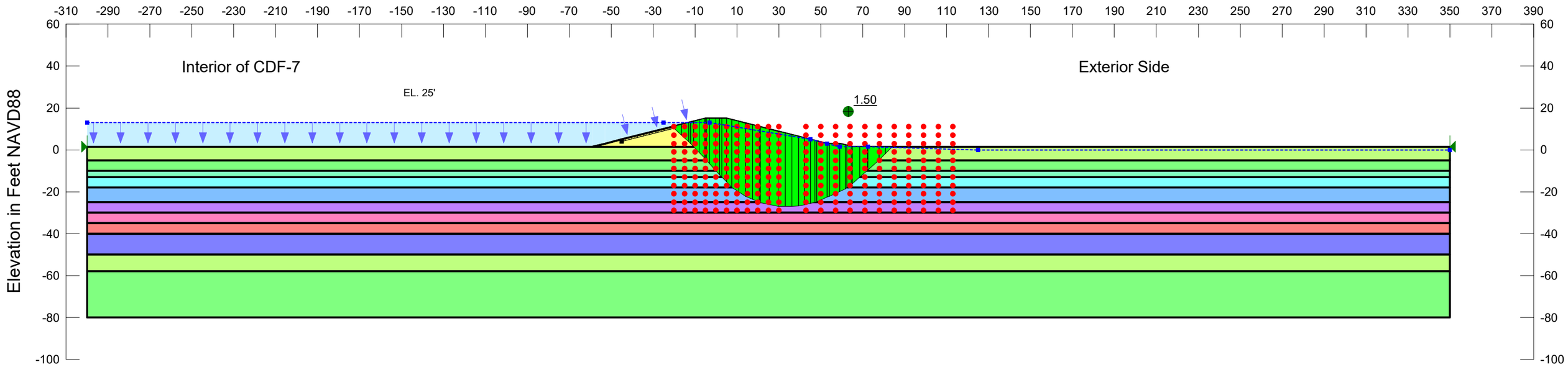

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US Army Corps of Engineers
New Orleans District

Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 6

Still Water Level - Block Slip Surface
Louisiana

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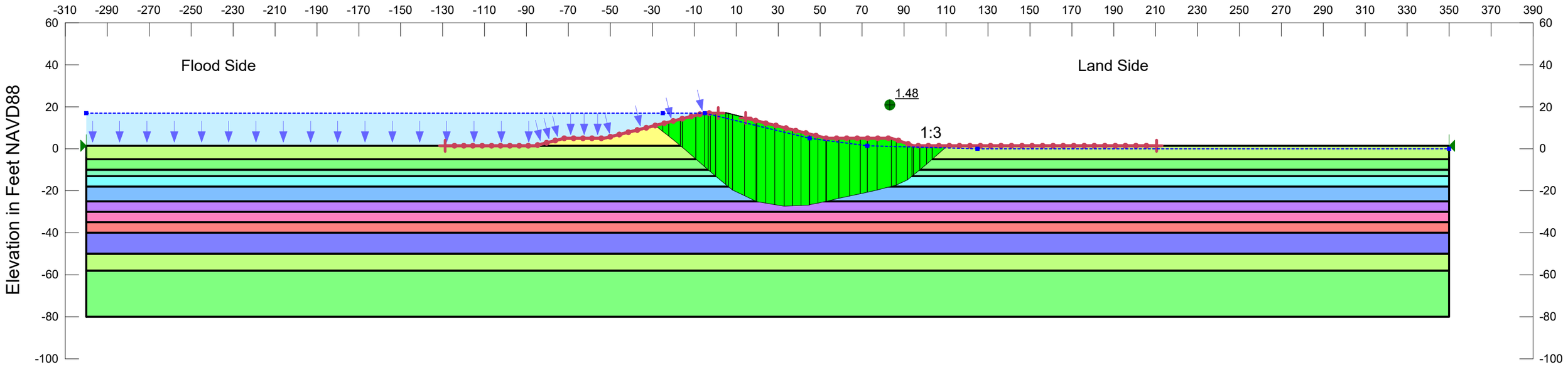
Plate 21



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US Army Corps of Engineers
New Orleans District

Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 6

Top of Levee - Entry Exit Slip Surface
Louisiana

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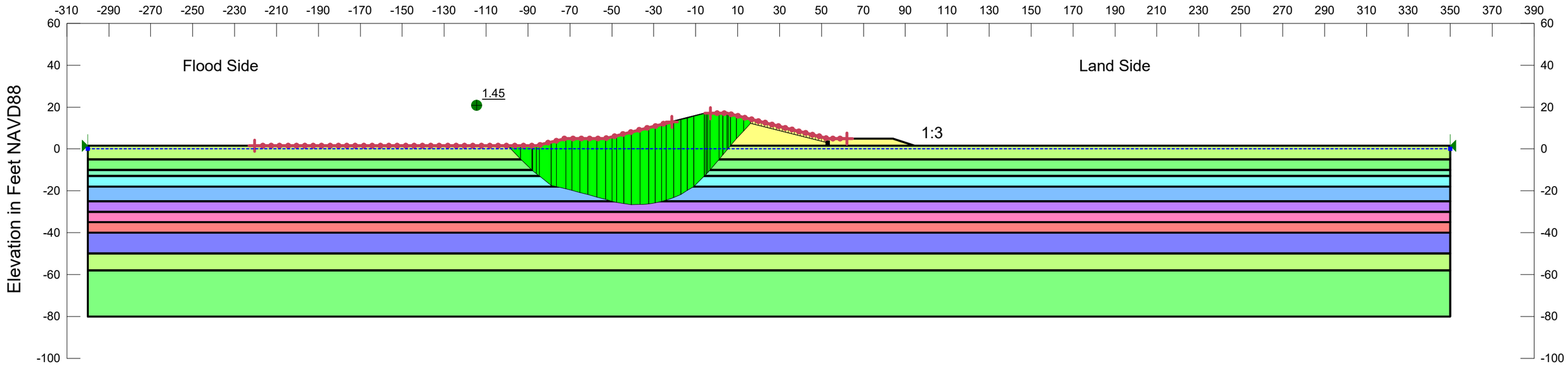

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US Army Corps of Engineers
New Orleans District

Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 6

Low Water Level - Entry Exit Slip Surface
Louisiana

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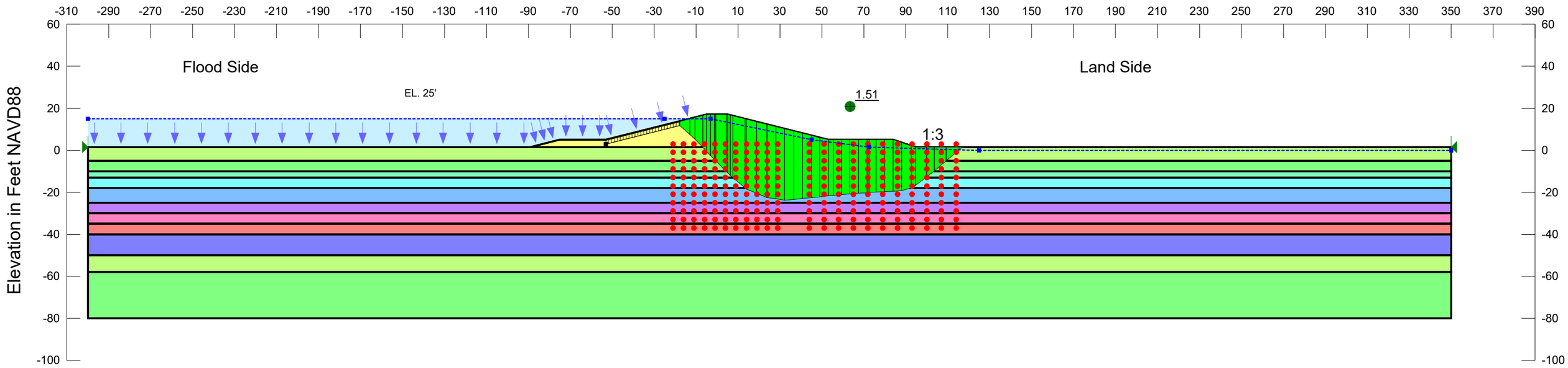

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US Army Corps of Engineers
New Orleans District
Upper Barataria Basin
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Alternative 6

Still Water Level - Block Slip Surface
Louisiana

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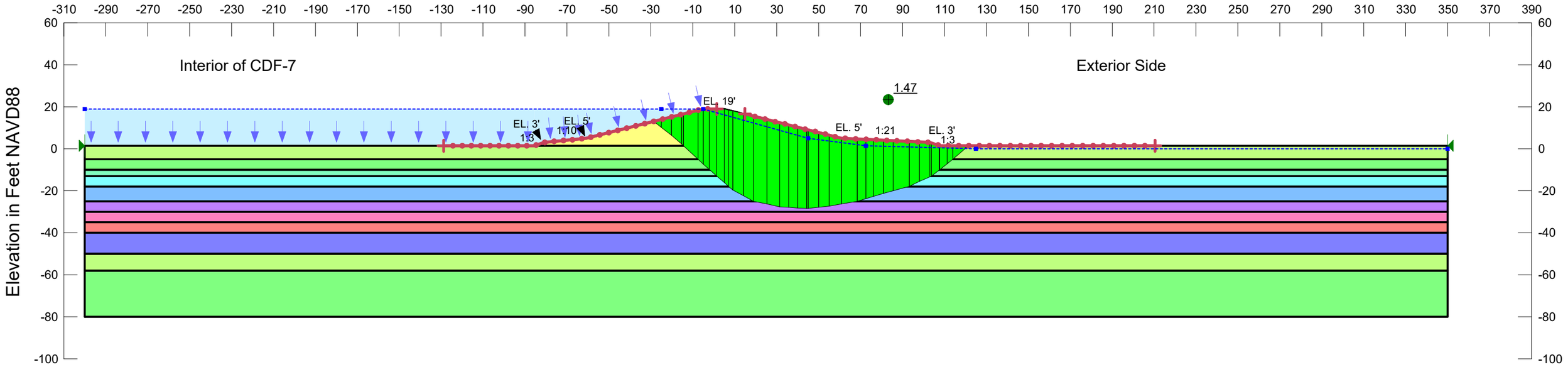

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Alternative 6

Top of Levee - Entry Exit Slip Surface
Louisiana

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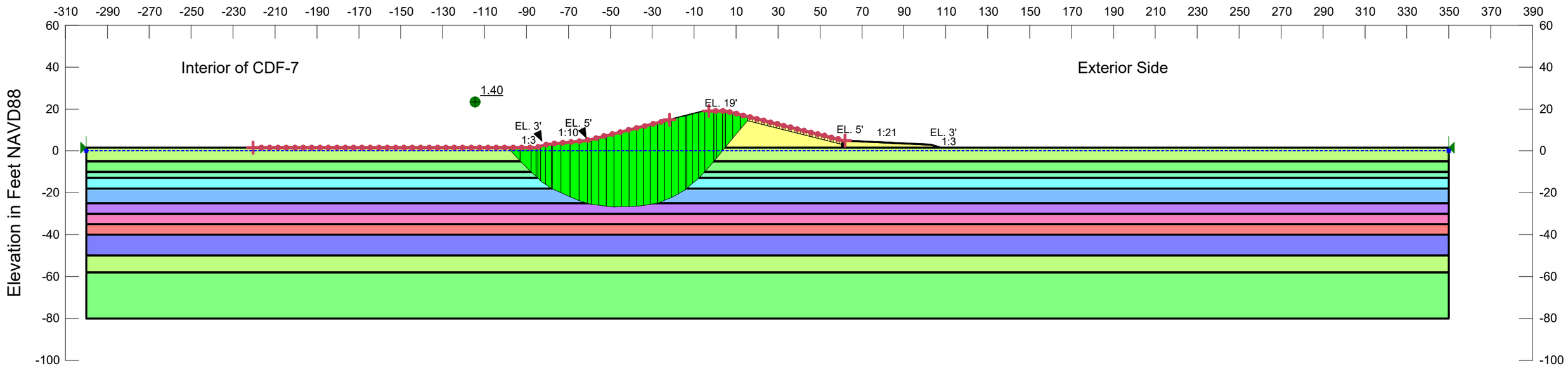

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US Army Corps of Engineers
New Orleans District

Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 6

Low Water Level - Entry Exit Slip Surface
Louisiana

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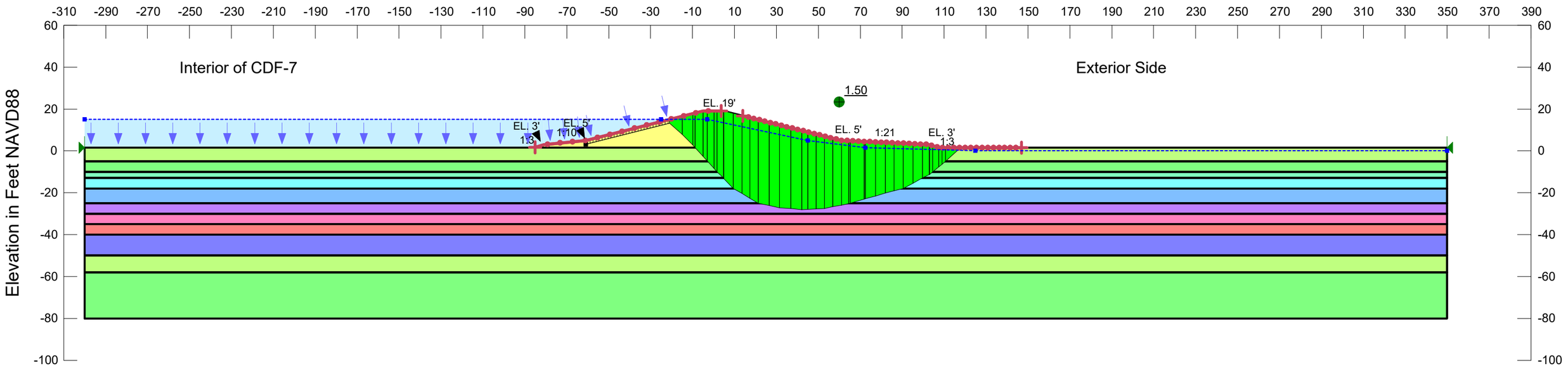

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Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 6

Still Water Level - Entry Exit Slip Surface
Louisiana

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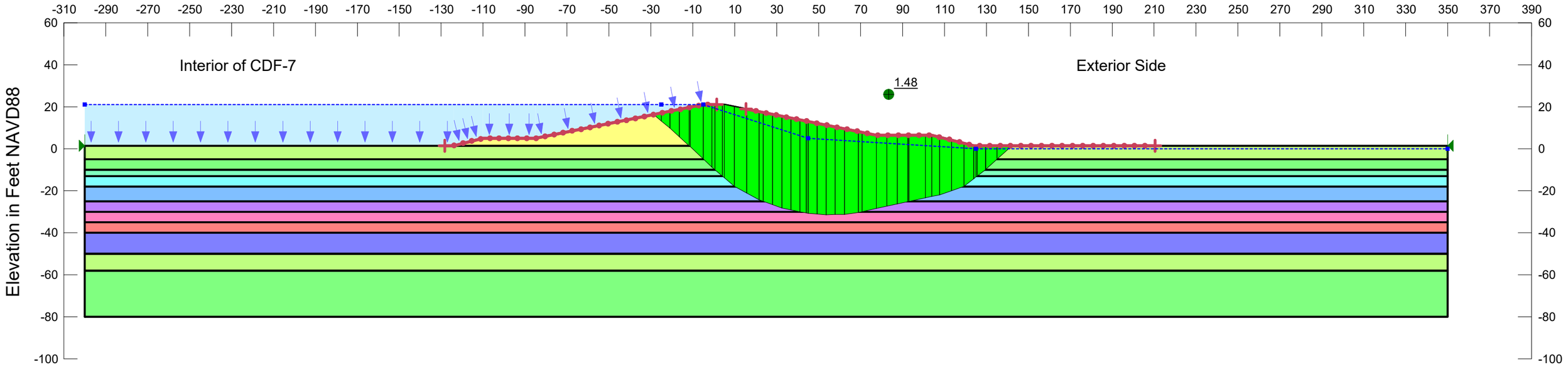

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Note: Using Design Shearline for Levee Reach 2 [Soil Boring B-2 and CPT Probe B-7]
On page 29/113 of Appendix 4-Geotechnical Investigations Figure 2.2. from the
LBLD -Upper Barataria RRP Conceptual Report
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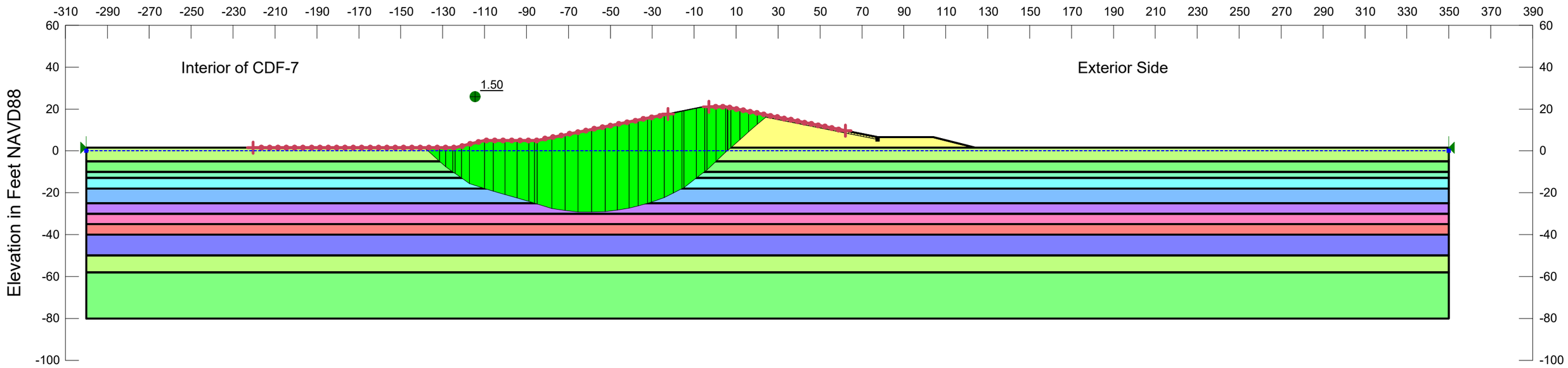
US Army Corps of Engineers
New Orleans District
Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 6

Top of Levee - Entry Exit Slip Surface
Louisiana



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New Orleans District

Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 6

Low Water Level - Entry Exit Slip Surface
Louisiana

File Name: UBBFootPrintMagnolia2007VersionEL21WStrengthGain07232019.gsz
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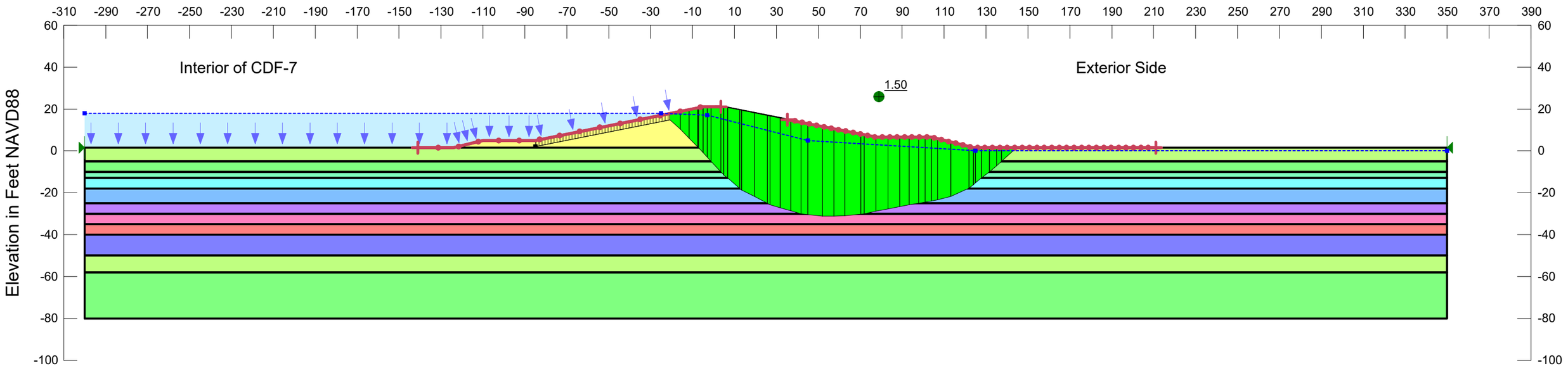

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SHEAR STRENGTHS BETWEEN VERTICALS
WERE ASSUMED TO VARY LINEARLY BETWEEN
THE VALUES INDICATED FOR THESE LOCATIONS.

Note: Using Design Shearline for Levee Reach 2 [Soil Boring B-2 and CPT Probe B-7]
On page 29/113 of Appendix 4-Geotechnical Investigations Figure 2.2. from the
LBLD -Upper Barataria RRP Conceptual Report
This design is only for cost estimating purposes. A more detailed design will be
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US Army Corps of Engineers
New Orleans District
Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 6

Still Water Level - Entry Exit Slip Surface
Louisiana

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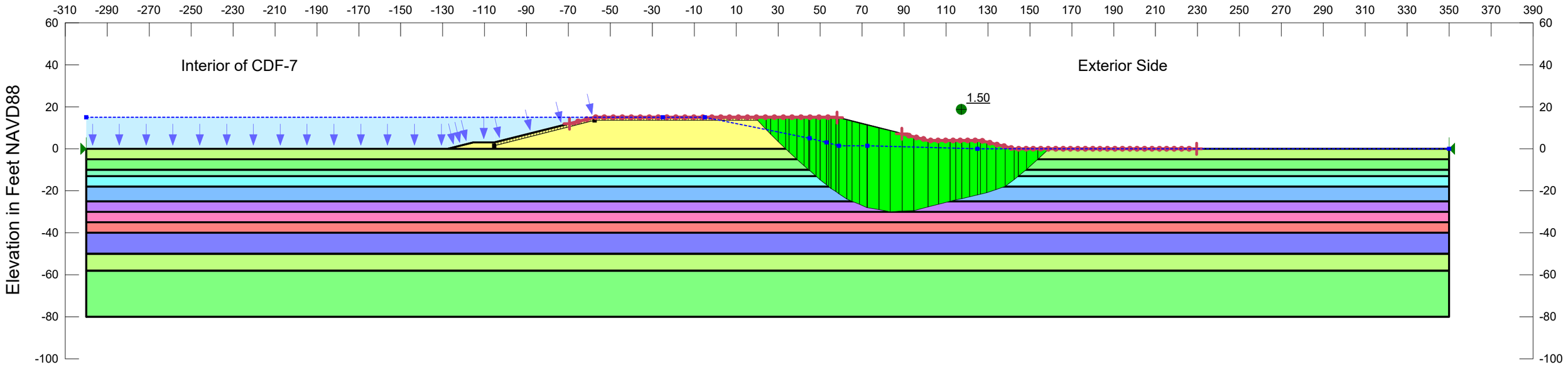

Uses soil Properties from Magnolia Ridge Geotechnical Report
22557-SCP-Magnolia Ridge Levee Project - Report I - Earthen Levees - Report and Figures. pdf

Gains in Strength from additional loadings were added for this stability analysis

GENERAL NOTES

CLASSIFICATION STRATIFICATION SHEAR STRENGTHS AND UNIT WEIGHTS OF THE SOIL WERE BASED ON THE RESULTS OF UNDISTURBED BORINGS. SEE BORING DATA PLATES.

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US Army Corps of Engineers
New Orleans District

Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 6

Top of Levee - Entry Exit Slip Surface
Louisiana

Note: This design is only for cost estimating purposes. A more detailed design will be completed at a later time.

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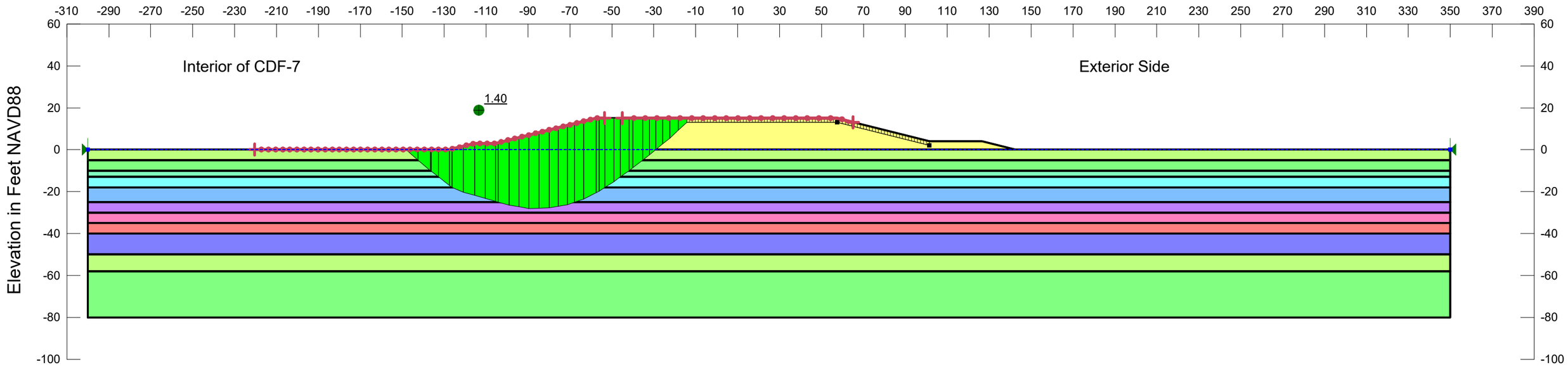

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US Army Corps of Engineers
New Orleans District

Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 6

Low Water Level - Entry Exit Slip Surface
Louisiana

File Name: UBBFootPrintMagnolia2007VersionEL15W07242019.gsz
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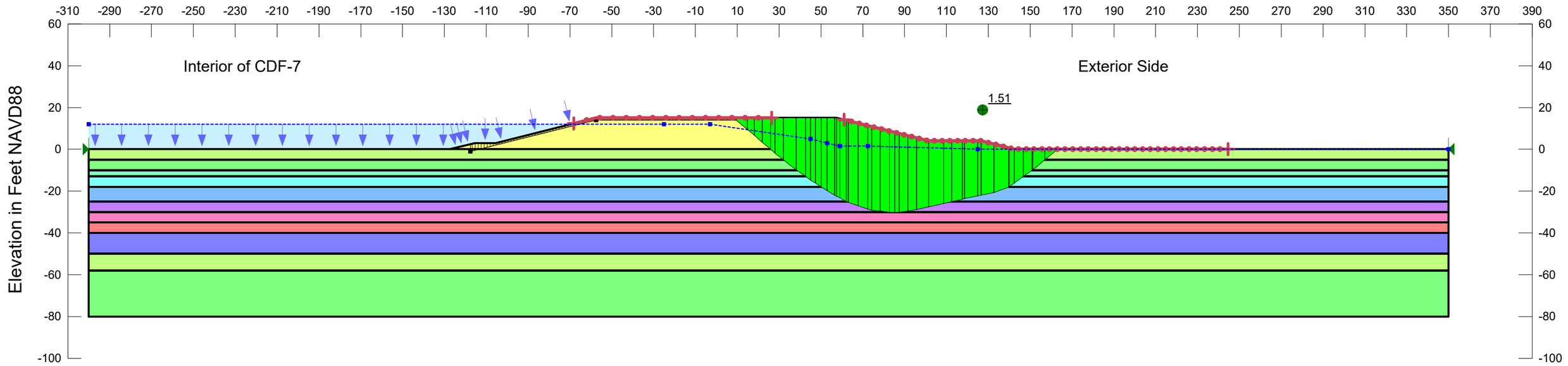

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US Army Corps of Engineers
New Orleans District

Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 6

Still Water Level - Entry Exit Slip Surface
Louisiana

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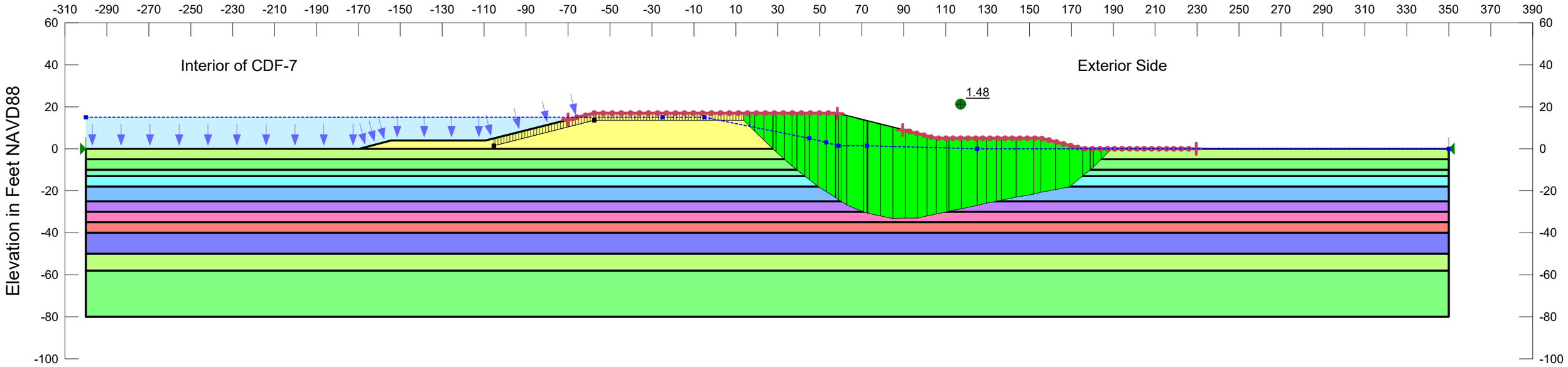

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US Army Corps of Engineers
New Orleans District

Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 8

Top of Levee - Entry Exit Slip Surface
Louisiana

Note: This design is only for cost estimating purposes. A more detailed design will be completed at a later time.

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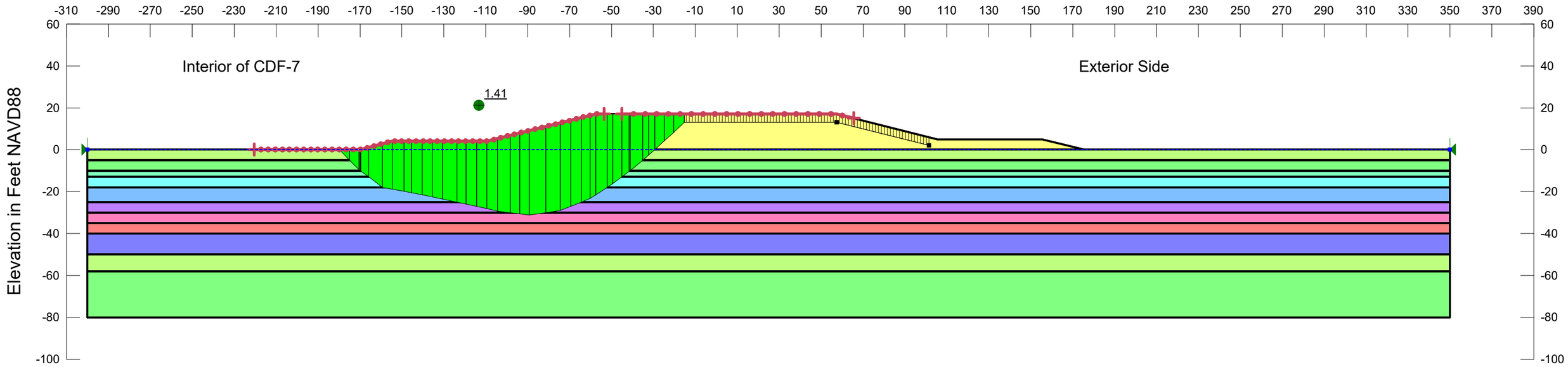

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GENERAL NOTES

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US Army Corps of Engineers
New Orleans District
Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 8

Low Water Level - Entry Exit Slip Surface
Louisiana

File Name: UBBFootPrintMagnolia2007VersionEL17W08022019.gsz
Directory: G:\F&MHOME\Danton\Barataria Basin\Upper Barataria Basin\Project Footprints\

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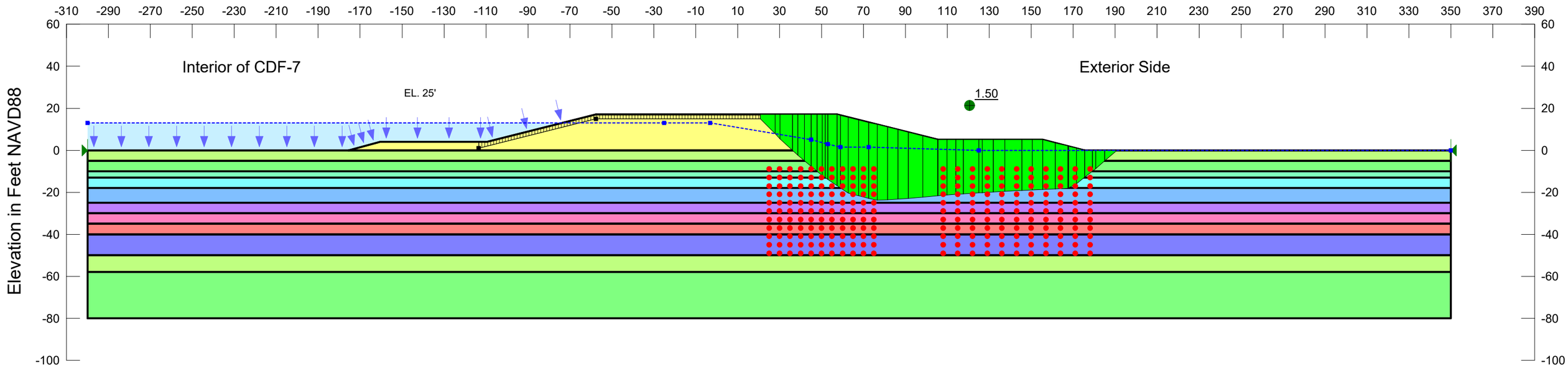

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US Army Corps of Engineers
New Orleans District
Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 8

Still Water Level - Block Slip Surface
Louisiana

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File Name: UBBFootPrintMagnolia2007VersionEL17W08022019.gsz
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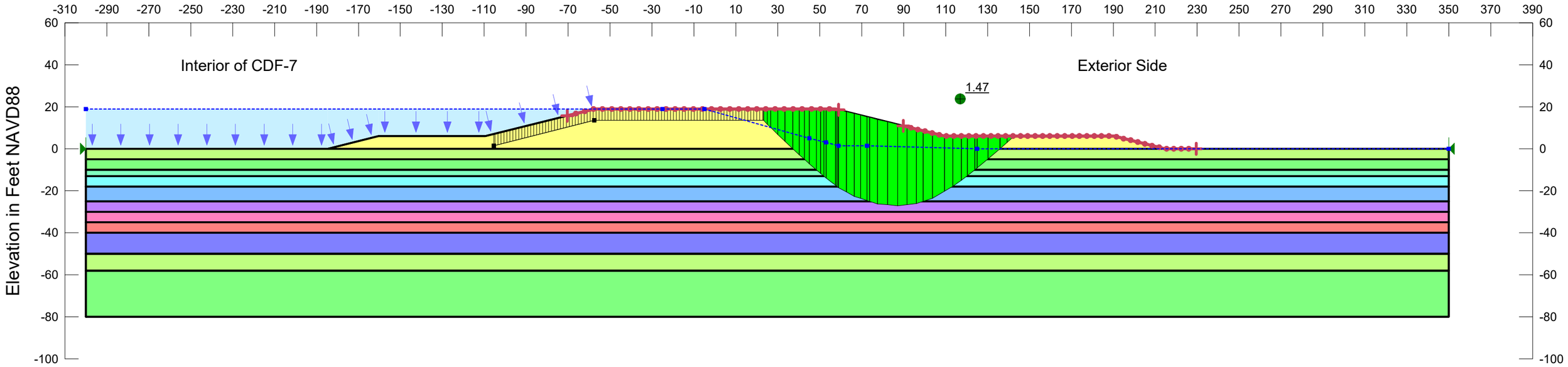

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US Army Corps of Engineers
New Orleans District

Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 8

Top of Levee - Entry Exit Slip Surface
Louisiana

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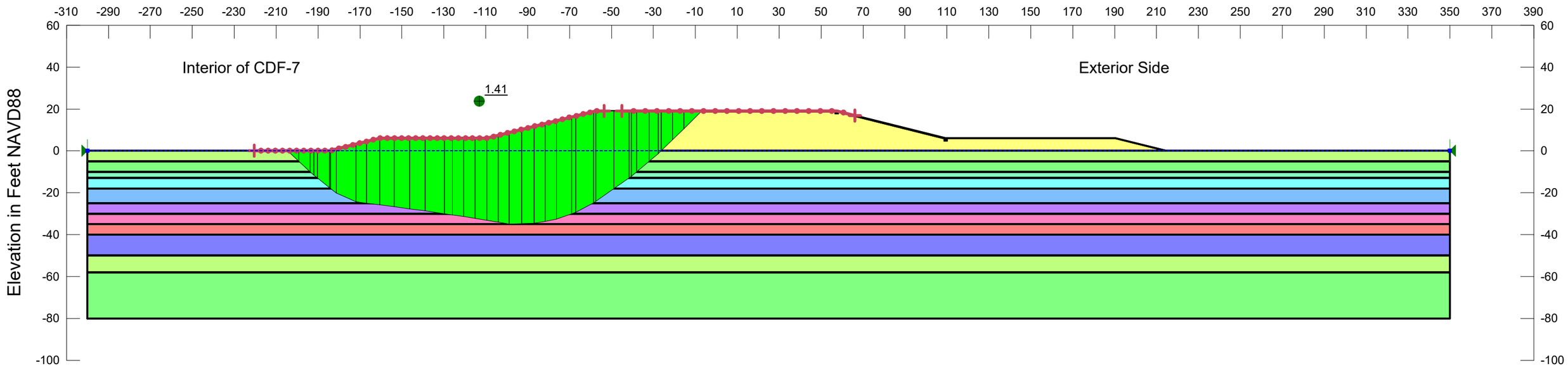

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US Army Corps of Engineers
New Orleans District
Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 8

Low Water Level - Entry Exit Slip Surface
Louisiana

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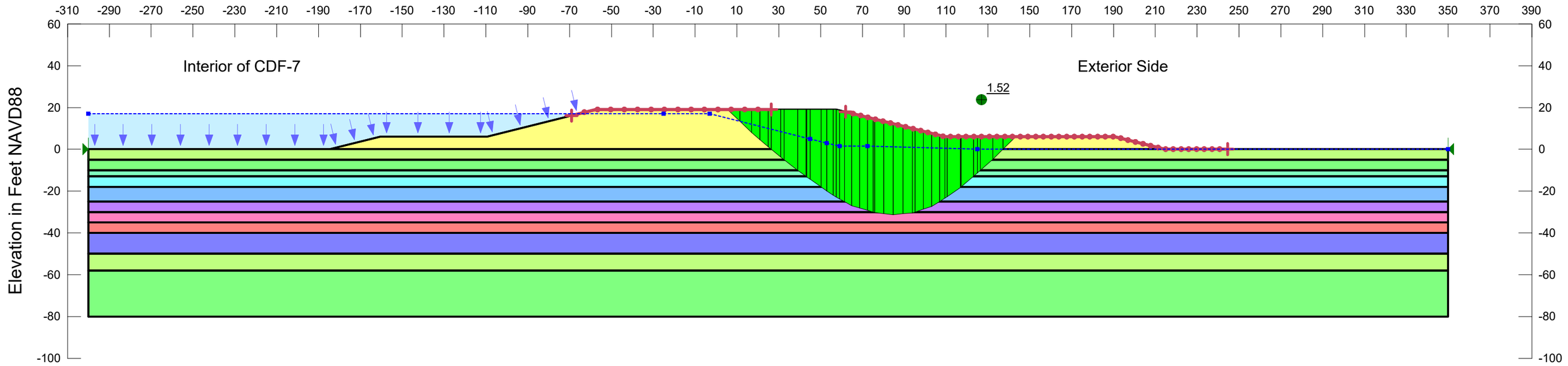

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US Army Corps of Engineers
New Orleans District
Upper Barataria Basin
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Alternative 8

Still Water Level - Entry Exit Slip Surface
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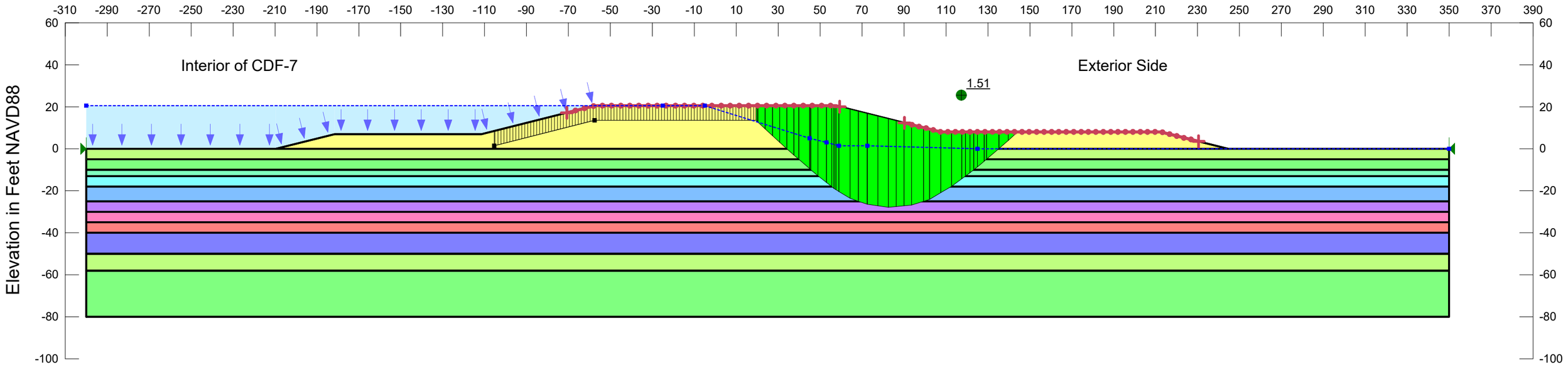

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US Army Corps of Engineers
New Orleans District
Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 8

Top of Levee - Entry Exit Slip Surface
Louisiana

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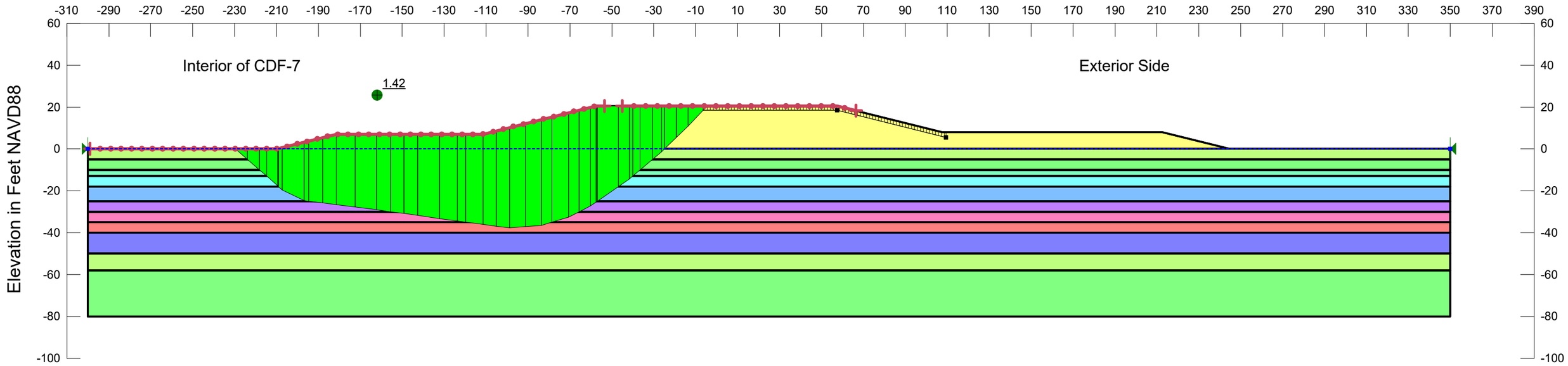

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US Army Corps of Engineers
New Orleans District

Upper Barataria Basin
Stability Analysis for Cost Estimate
Alternative 8

Low Water Level - Entry Exit Slip Surface
Louisiana

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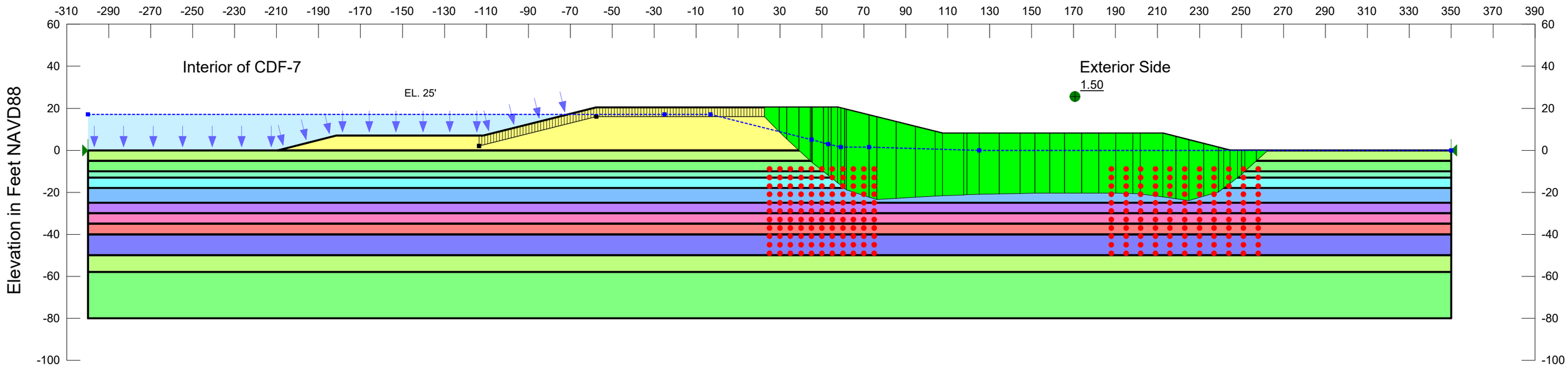

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Alternative 8

Still Water Level - Block Slip Surface
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