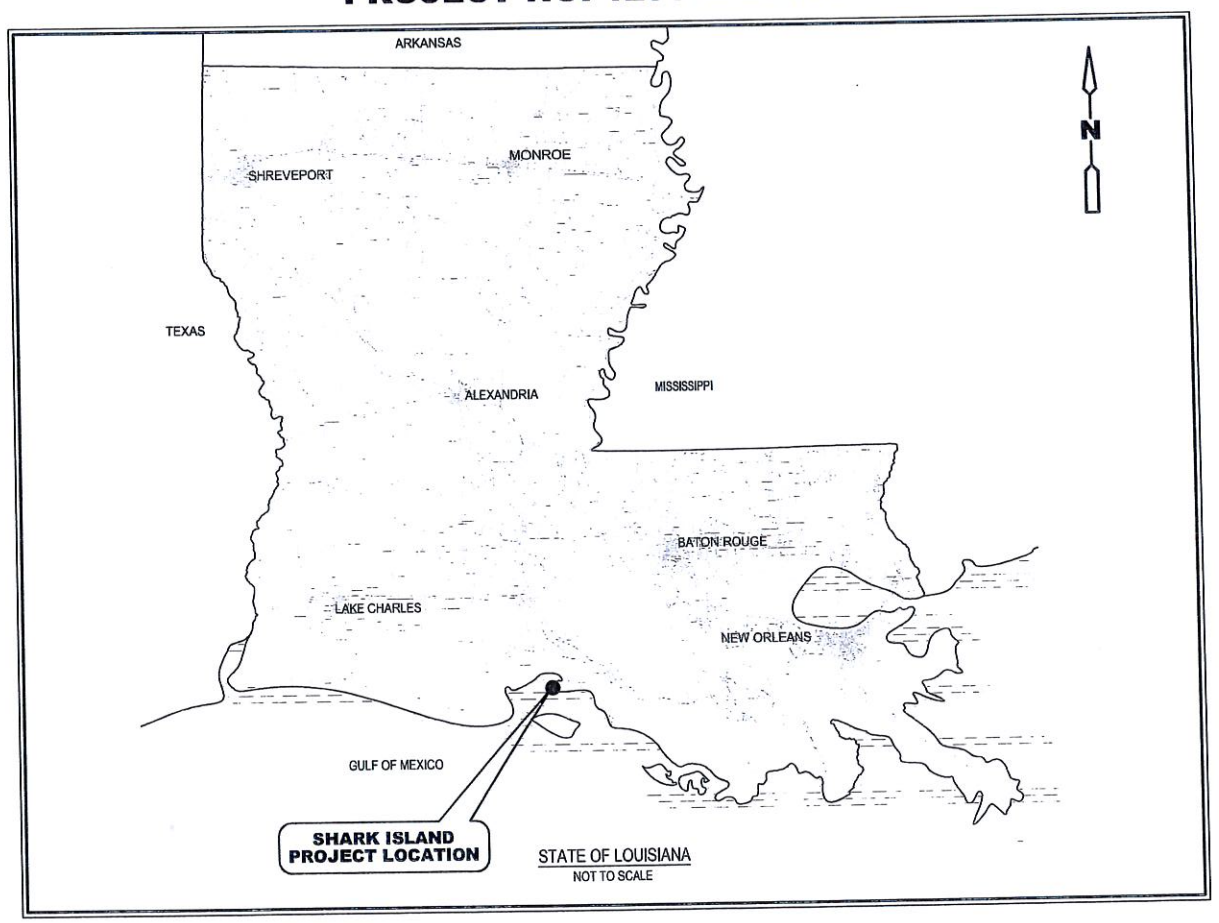
NATURAL RESOURCES CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE

LA-16 NON-ROCK ALTERNATIVES TO SHORELINE PROTECTION DEMONSTRATION PROJECT

PROJECT NO. 129859-95110



LOCATION PLAN
NTS

LIST OF DRAWINGS

FOR DEMONSTRATION PROJECT PURPOSES ONLY

RECORD DRAWING

THIS RECORD DRAWING HAS BEEN PREPARED BASED ON A COMBINATION OF INFORMATION PROVIDED BY NRCS AND BY CDM SMITH. THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF ALL THE INFORMATION TO THE BEST OF THE ENGINEER'S BELIEF AND KNOWLEDGE, THE INCLUDED RECORD INFORMATION IS REASONABLY ACCURATE.

By Brian Barnes Date MAY 2014

CDM Smith

MAY 2013

CDM Smith

Living Shoreline Solutions Inc.

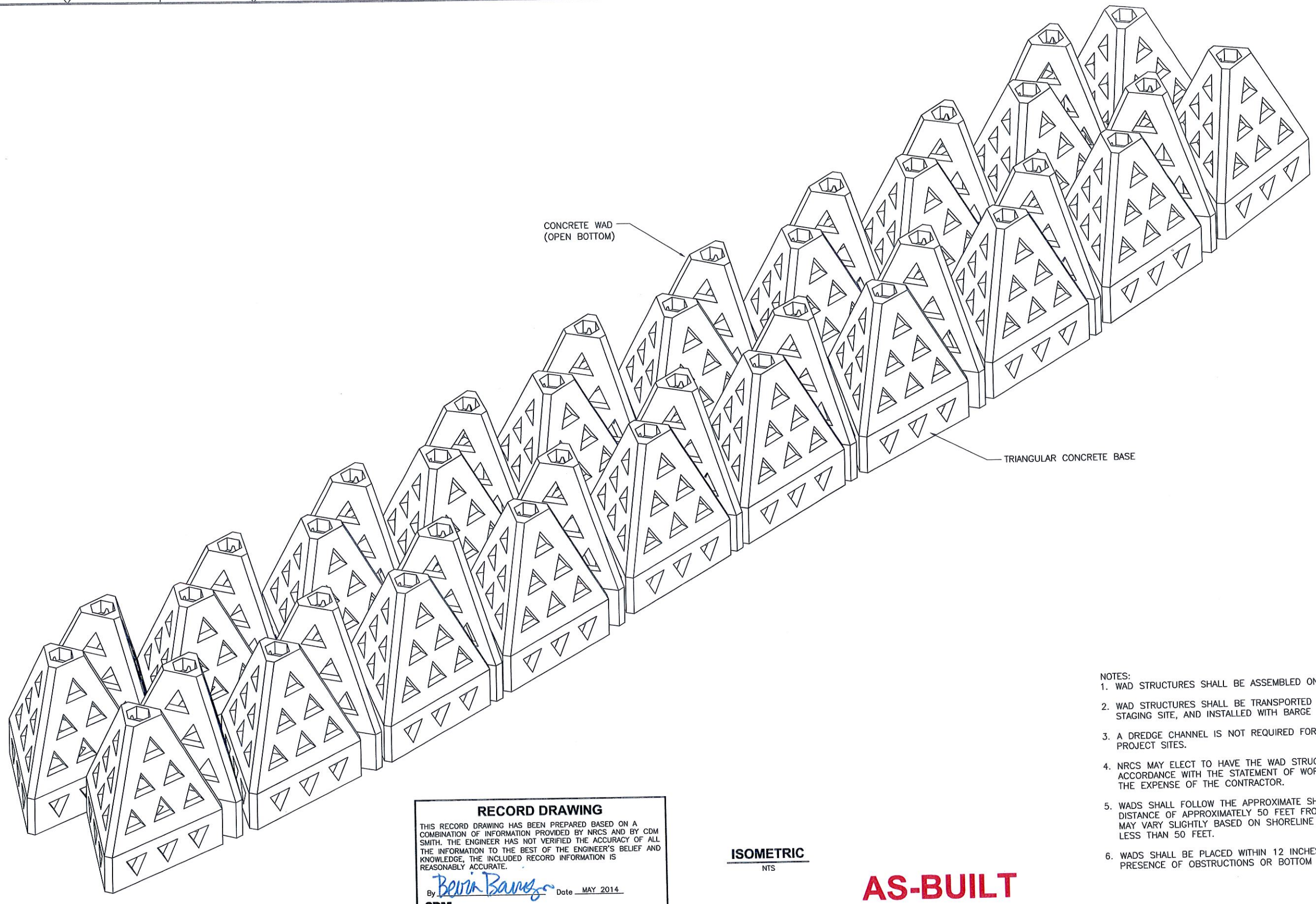
U.S. PATENT 6,181,992 B1 WAD

www.livingshorelinesolutions.com

AS-BUILT

129859-95110

DWG FILE: S:\67486\85232\951110-2510-Shoreline_Protection_-_Revised\COOCOVER.dwg
SAVE DATE: May 29, 2014 4:39 PM BY: Andersonca PLOT DATE: Jun 13, 2014 4:25 PM BY: Anderson, Carl A.
XREFS:



ISOMETRIC
NTS

RECORD DRAWING

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By Bernie Barringer Date MAY 2014

CDM Smith

AS-BUILT

NOTES:
1. WAD STRUCTURES SHALL BE ASSEMBLED ON LAND.
2. WAD STRUCTURES SHALL BE TRANSPORTED TO THE SITE, FROM THE STAGING SITE, AND INSTALLED WITH BARGE EQUIPMENT.
3. A DREDGE CHANNEL IS NOT REQUIRED FOR BARGE EQUIPMENT TO ACCESS PROJECT SITES.
4. NRCS MAY ELECT TO HAVE THE WAD STRUCTURES REMOVED IN ACCORDANCE WITH THE STATEMENT OF WORK SECTION 1.1.6 – REMOVAL AT THE EXPENSE OF THE CONTRACTOR.
5. WADS SHALL FOLLOW THE APPROXIMATE SHORELINE CONTOUR AT A DISTANCE OF APPROXIMATELY 50 FEET FROM SHORELINE. THIS DISTANCE MAY VARY SLIGHTLY BASED ON SHORELINE CONTOUR BUT WILL NOT BE ANY LESS THAN 50 FEET.
6. WADS SHALL BE PLACED WITHIN 12 INCHES OF EACH OTHER UNLESS THE PRESENCE OF OBSTRUCTIONS OR BOTTOM DEFORMITIES REQUIRE OTHERWISE.

FOR DEMONSTRATION PROJECT PURPOSES ONLY

DESIGNED BY:	LSS
DRAWN BY:	G. RODRIGUEZ
SHEET CHK'D BY:	B. BARRINGER
CROSS CHK'D BY:	N. MIKHAIL
DATE:	MARCH 20, 2014

CDM Smith
445 North Blvd., Suite 850
Baton Rouge, LA 70802
Tel: (225) 757-7200

Living Shoreline Solutions Inc

NATURAL RESOURCES CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
LA-16 NON-ROCK ALTERNATIVES TO SHORELINE PROTECTION DEMONSTRATION PROJECT

WAD STRUCTURES

PROJECT NO. 129859-95110
FILE NAME: C001PLISO.DWG
SHEET NO. C-1

XREFs: [CDMS_2234_AS_BUILT_DATA_PNTS] Images: [shark_island_2010]
Last saved by: ANDERSONCA Time: 5/30/2014 9:49:20 AM
S:\67486\853232\95110-2510-Shoreline_Protection - Revised\C002STPL-SHARK-1.dwg

LOCATION, SURVEY DATA, AND AERIAL IMAGERY WAS PROVIDED BY NRCS.

RECORD DRAWING

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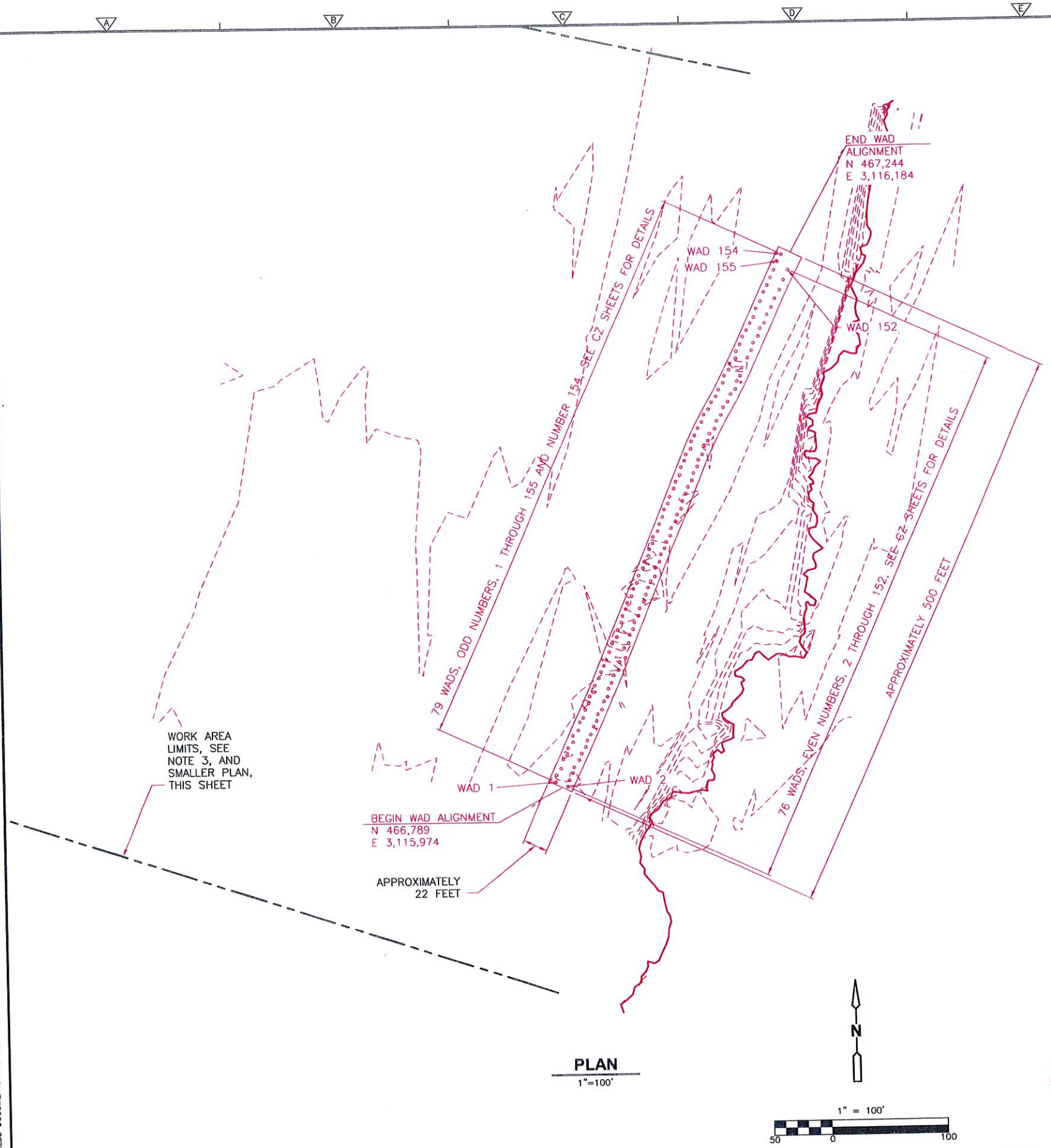
By Barringer Date MAY 2014

CDM Smith

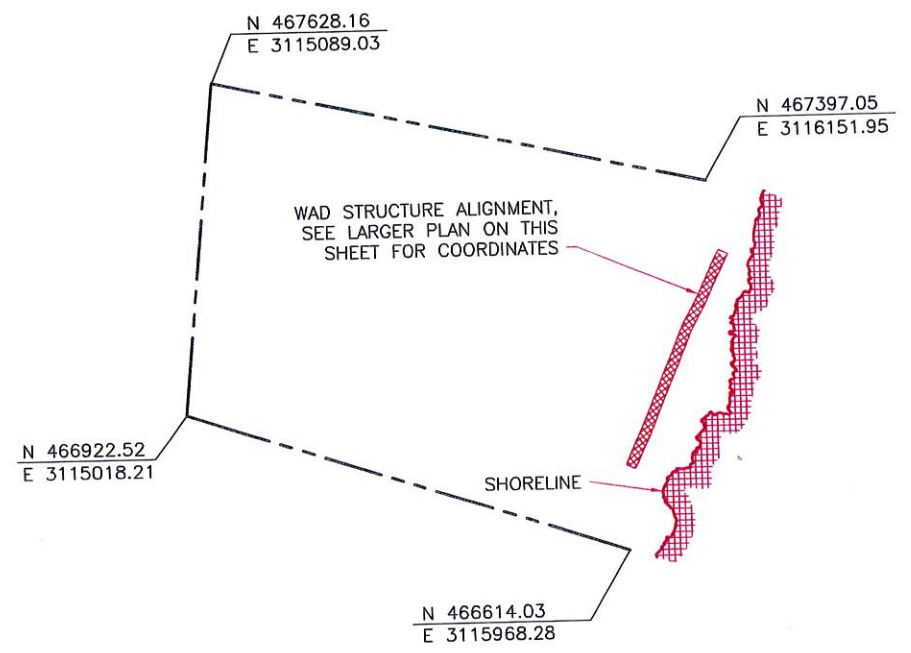
NOTES:

1. TOPOGRAPHIC INFORMATION SHOWN WAS PROVIDED BY NRCS. ALL ELEVATIONS ARE IN FEET AND REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988. ALL HORIZONTAL COORDINATES ARE IN FEET AND REFERENCED TO STATE PLANE, LOUISIANA SOUTH, NORTH AMERICAN DATUM 1983.
2. MEAN WATER LEVELS ARE ANTICIPATED TO RANGE BETWEEN EL. +1.46' AND −0.24' WITHIN THE AREA OF THE ARRAY.
3. NRCS WILL PROVIDE STAKE OUT OF THE WORK LIMITS (150' ON EITHER SIDE OF BEGINNING & ENDING STATIONS). THE WORK LIMITS PARALLEL TO THE SHORELINE WILL CONSIST OF THE 500' EXTENT OF THE SHORELINE PROTECTION FEATURE PLUS 150' ON EITHER SIDE OF THOSE EXTENTS. THE WORK LIMITS PERPENDICULAR TO THE SHORELINE WILL EXTEND 1,000' INTO VERMILLION BAY.
4. BENCHMARK INFORMATION:

BENCHMARK NAME	LA16−SH#4
COORDINATES	N=451,605.000 E=3,115,444.877
ELEVATION	2.84
GEOID	3



PLAN
1"=100'



WORK AREA LIMITS AND COORDINATES
PLAN
1"=200'

AS-BUILT

FOR DEMONSTRATION PROJECT PURPOSES ONLY

DESIGNED BY:	LSS
DRAWN BY:	G. RODRIGUEZ
SHEET CHK'D BY:	B. BARRINGER
CROSS CHK'D BY:	N. MIKHAIL
DATE:	MARCH 20, 2014

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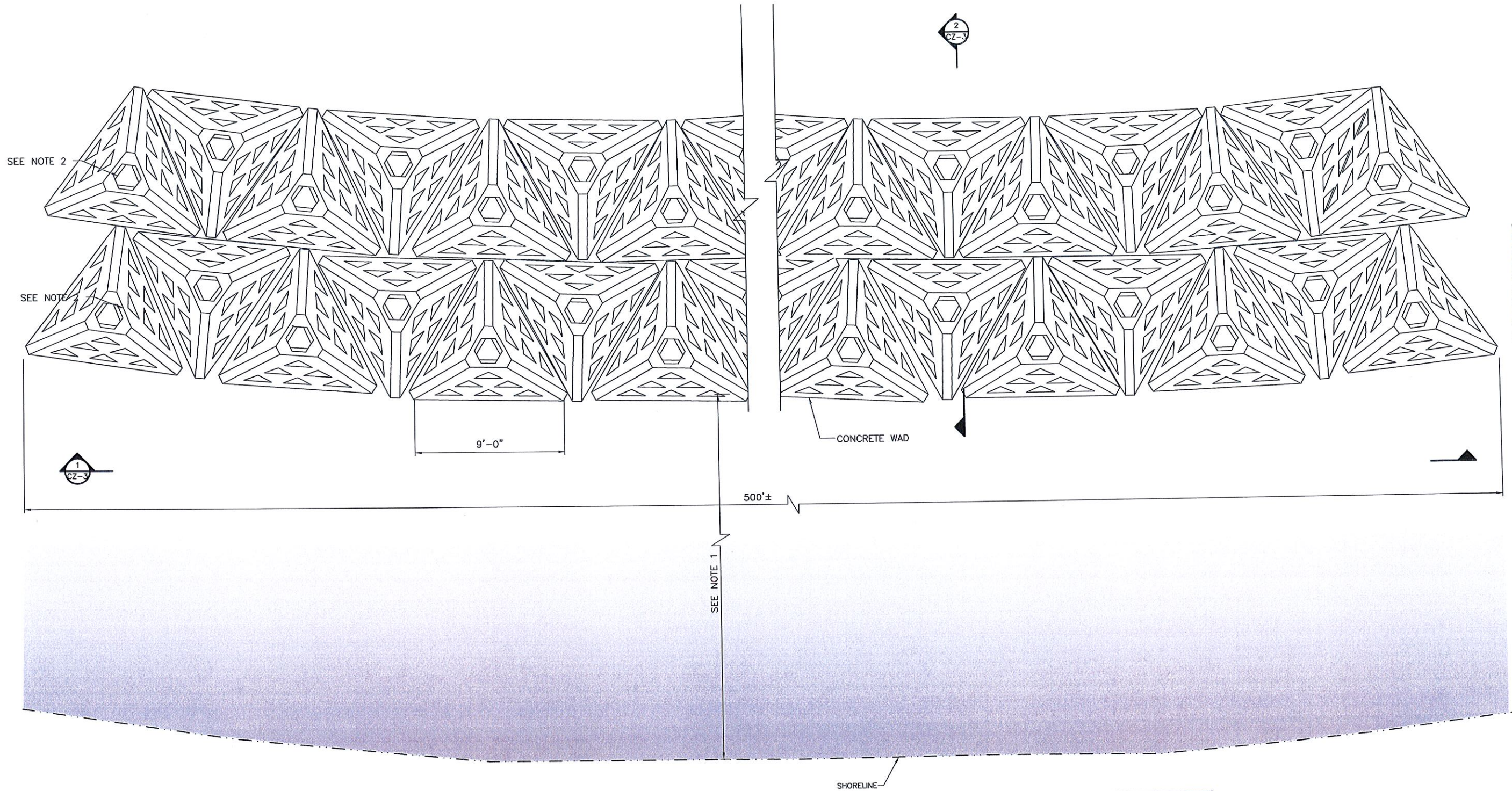
SHARK ISLAND SITE PLAN

PROJECT NO. 129859-95110
FILE NAME: C002STPL-SHARK-1.DWG
SHEET NO.
C-2



NOTES:
1. WADS SHALL FOLLOW THE APPROXIMATE SHORELINE CONTOUR AT A DISTANCE OF APPROXIMATELY 50 FEET FROM SHORELINE. THIS DISTANCE MAY VARY SLIGHTLY BASED ON SHORELINE CONTOUR BUT WILL NOT BE ANY LESS THAN 50 FEET.

2. WAD LAYOUT SHALL BE ADJUSTED AS NECESSARY TO FOLLOW SHORELINE CONTOUR. SPACING BETWEEN ADJACENT WAD STRUCTURES SHALL NOT EXCEED 12 INCHES UNLESS THE PRESENCE OF OBSTRUCTIONS OR BOTTOM DEFORMITIES REQUIRE OTHERWISE.

PLAN
3/16"=1'-0"

RECORD DRAWING

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By Beth Barringer Date MAY 2014

CDM Smith

AS-BUILT

3/16" = 1'- 0"

4 0 4 8

FOR DEMONSTRATION PROJECT PURPOSES ONLY

DESIGNED BY:	LSS
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SHEET CHK'D BY:	B. BARRINGER
CROSS CHK'D BY:	N. MIKHAIL
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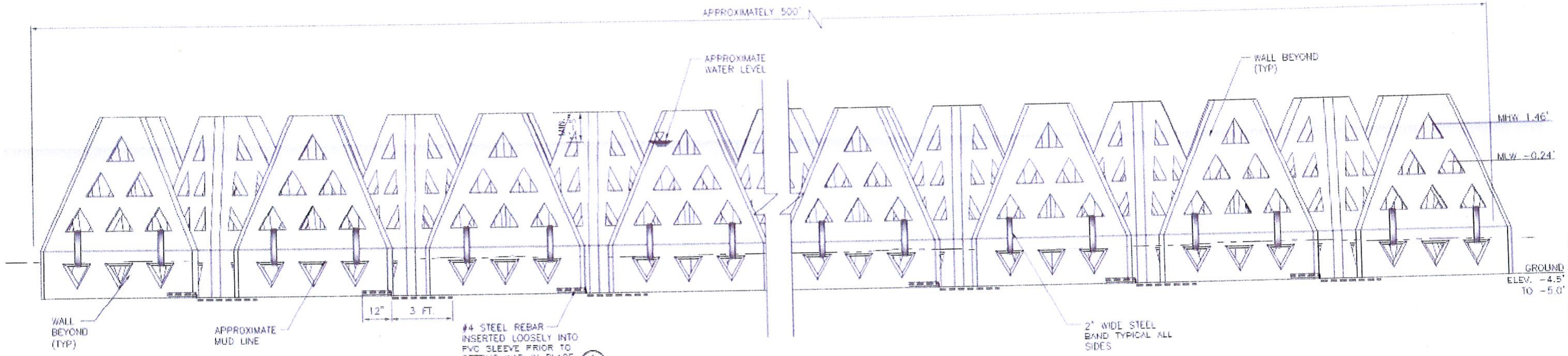
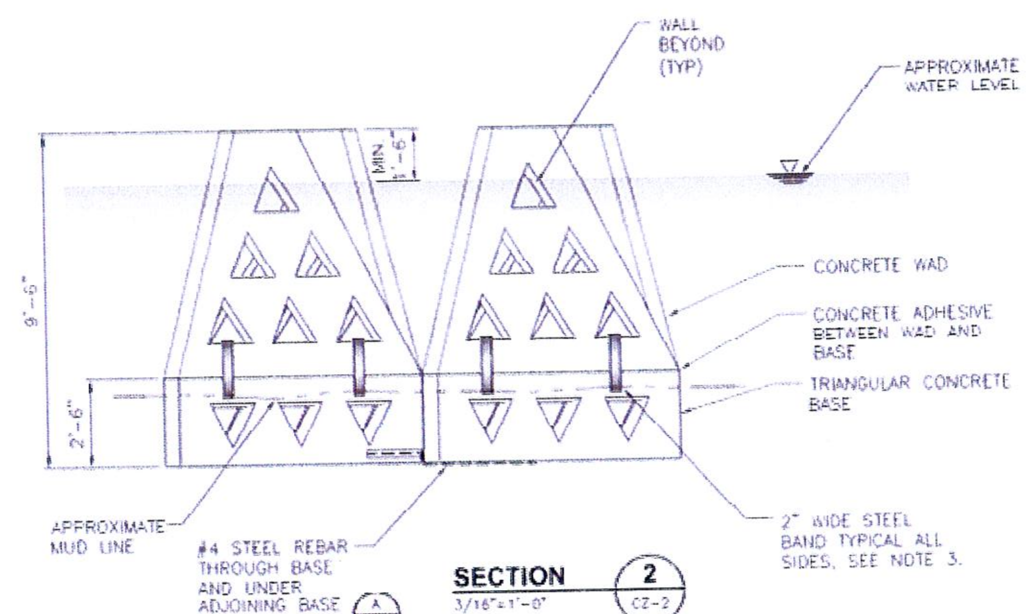
WAD ALIGNMENT

PROJECT NO. 129859-95110
FILE NAME: CZ1PLAL

SHEET NO.
CZ-1



SECTION 1 (CZ-2)
3/16"=1'-0"



SECTION 2 (CZ-2)
3/16"=1'-0"

NOTES:

1. MEAN HIGH WATER (MHW) & MEAN LOW WATER (MLW) WERE DETERMINED USING GAGE 876521 AND WERE ALSO USED IN THE MODELING.
2. GROUND ELEVATIONS WERE PROVIDED IN THE NRCS SURVEY DATA AND ALSO VERIFIED @ THE SITE.
3. STEEL BANDS ARE SACRIFICIAL. PRIMARY PURPOSE IS A SAFETY FACTOR DURING DEPLOYMENT – THEY ARE NOT NEEDED IN THE LONG TERM; DOES NOT AFFECT REMOVAL IF REMOVAL WERE TO OCCUR.
4. TRUE BOND ADHESIVE IS USED TO SECURE BASE TO WAD; IT IS AN ADHESIVE THAT SHOULD LAST FOR THE 20-YEAR DESIGN LIFE.

RECORD DRAWING

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By: [signature] Date: MAY 2014

CDM Smith

AS-BUILT

3/16" = 1'- 0"

4 0 4 8

FOR DEMONSTRATION PROJECT PURPOSES ONLY

DESIGNED BY	LSS
DRAWN BY	G. RODRIGUEZ
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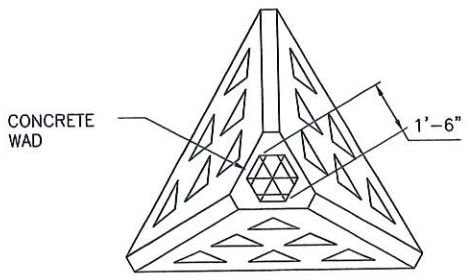
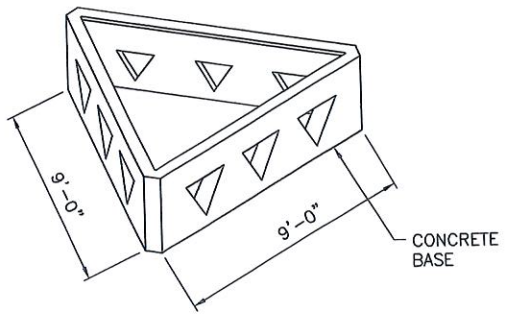
LA-16 NON-ROCK ALTERNATIVES TO SHORELINE PROTECTION DEMONSTRATION PROJECT

SECTIONS

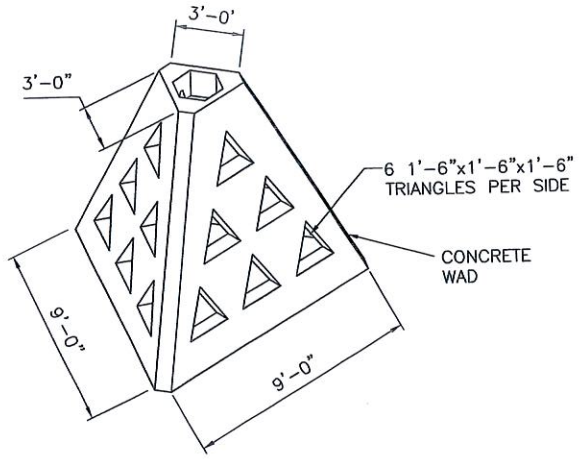
PROJECT NO. 129859-95110
FILE NAME CZ2SECT
SHEET NO. CZ-2



PLAN
1/2"=1'–0"

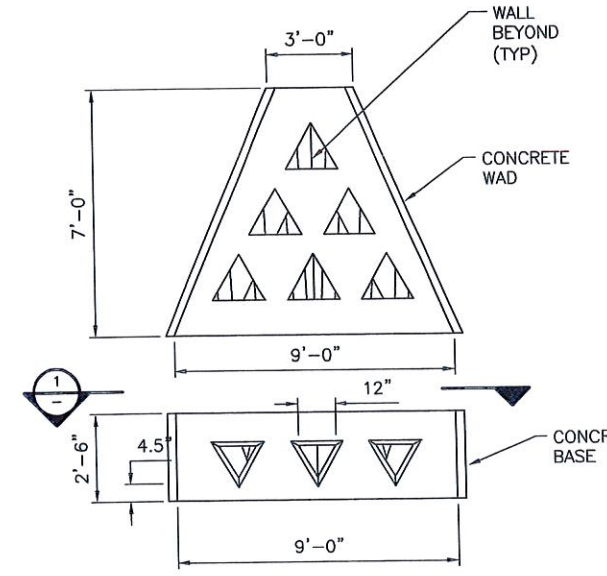


ISOMETRIC
NTS

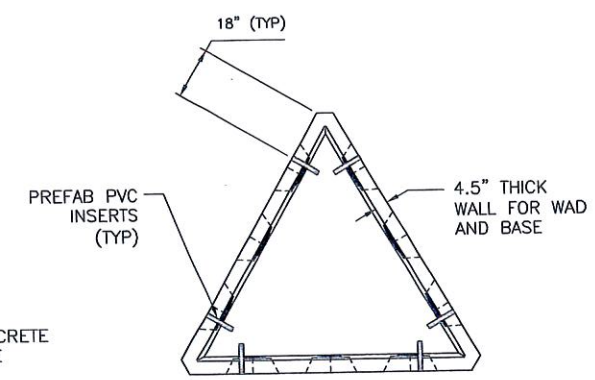


ISOMETRIC
NTS

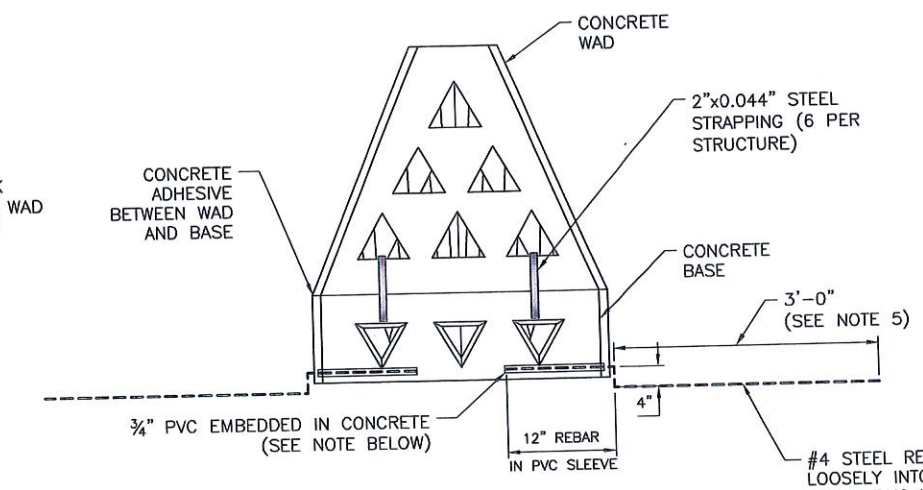
NOTES:
1. EACH WAD CONTAINS APPROXIMATELY 2.25 CUBIC FEET OF CONCRETE. EACH BASE CONTAINS APPROXIMATELY 1.75 CUBIC FEET OF CONCRETE. THE WAD UNIT IS HOLLOW, THE BASE HAS A SOLID BOTTOM.
2. CONCRETE COMPRESSIVE STRENGTH SHALL BE 5,000 POUNDS PER SQUARE INCH WITHIN 28 DAYS.
3. STEEL BANDING SHALL BE 2 INCHES WIDE BY 0.044 INCHES THICK WITH A BREAK STRENGTH OF 12,300 POUNDS BY POLY STEEL AND STRAPPING.
4. CONCRETE ADHESIVE SHALL BE TRUE BOND ADHESIVE BY R.C. DAVIS INC.
5. #4 STEEL REBAR SHALL BE PLACED BETWEEN ALL ADJACENT WAD BASES, 2 PER SIDE, SEE DETAIL B, THIS SHEET. SHORT ENDS (12" END) OF REBAR ARE INSERTED LOOSE INTO ¾", EMBEDDED, PVC SLEEVES, SEE DETAIL A, THIS SHEET FOR REBAR DIMENSIONS.
6. ALL TRIANGULAR OPENINGS IN WAD AND BASE ARE TAPERED.



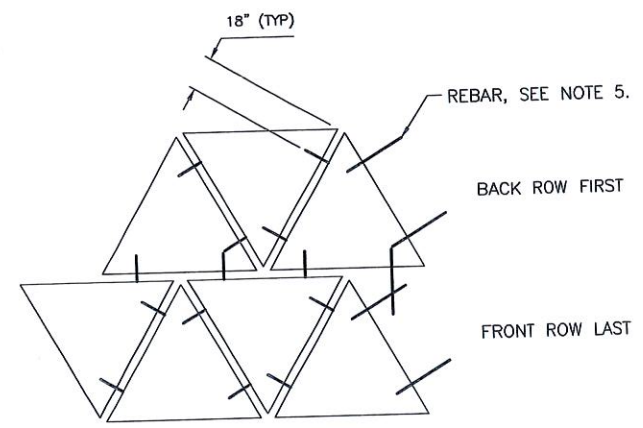
ELEVATION
3/16"=1'–0"



SECTION 1
3/8" = 1'–0"



TYPICAL STRUCTURAL INSTALLATION
DETAIL A
3/16"=1'–0"



REBAR PLACEMENT
DETAIL B
NTS

NOTE: IMBEDDED PVC IS 12" LONG X 3/4" DIA, CENTERED IN THE 4" THICK CONCRETE BASE AT 2" FROM THE BOTTOM AND FROM THE TOP

AS-BUILT

3/16" = 1'– 0"
4 0 4 8

FOR DEMONSTRATION PROJECT PURPOSES ONLY

DESIGNED BY:	LSS
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SHEET CHK'D BY:	B. BARRINGER
CROSS CHK'D BY:	N. MIKHAIL
DATE:	MARCH 20, 2014

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STANDARD DETAILS

PROJECT NO. 129859–95110
FILE NAME: CZ3SDDT
SHEET NO. CZ-3

WAD NUMBER	SURVEY POINT NUMBER	NORTHING	EASTING	TOP OF WAD ELEVATION	MUDLINE ELEVATION
1	4879	466794.61	3115969.99	6.48	-2.90
2	4881	466790.66	3115980.51	6.81	-2.58
3	4883	466800.65	3115970.83	6.37	-3.01
4	4885	466796.13	3115982.00	5.90	-2.88
5	4887	466806.19	3115974.80	6.22	-3.56
6	4889	466802.27	3115985.04	5.88	-2.76
7	4891	466814.22	3115977.01	5.60	-3.88
8	4893	466807.34	3115986.35	5.76	-3.42
9	4895	466817.46	3115980.33	5.30	-4.15
10	4897	466813.31	3115990.64	5.55	-3.66
11	5041	466823.65	3115981.32	5.06	-3.81
12	4899	466818.91	3115992.89	5.32	-3.83
13	5043	466828.64	3115985.92	4.98	2.75
14	4901	466824.44	3115996.34	5.10	-3.56
15	5045	466834.06	3115985.73	5.37	-3.87
16	4903	466830.03	3115997.75	5.25	-3.47
17	5047	466838.71	3115990.53	5.36	-3.50
18	4905	466835.09	3116000.98	5.53	-3.61
19	5049	466845.59	3115991.95	5.15	-3.91
20	4907	466841.92	3116003.58	5.65	-4.02
21	5051	466849.25	3115994.76	5.25	-3.77
22	4909	466846.66	3116006.26	5.63	-3.66
23	5053	466856.14	3115996.74	5.39	-3.87
24	4911	466852.39	3116007.39	5.75	-3.29
25	5055	466861.65	3115999.61	5.41	-4.55
26	4913	466856.23	3116011.18	5.71	-3.73
27	5057	466867.60	3116000.70	5.14	-3.37
28	4915	466863.33	3116012.88	6.07	-3.39
29	5059	466871.18	3116004.04	5.08	-4.28
30	4917	466867.21	3116016.24	5.67	-3.26
31	5061	466876.85	3116005.15	5.66	-3.74
32	4919	466874.01	3116017.08	5.37	-3.53
33	5063	466882.98	3116009.08	5.78	-4.04
34	4921	466878.83	3116019.87	5.57	-3.20
35	5065	466888.37	3116010.97	5.52	-4.23
36	4923	466885.39	3116021.72	5.74	-3.88
37	5067	466893.60	3116013.58	4.85	-4.13
38	4925	466889.86	3116026.06	5.65	-4.01
39	5069	466898.39	3116015.93	5.11	-4.14
40	4927	466896.63	3116026.89	5.48	-2.33
41	5071	466905.13	3116018.57	5.42	-3.64
42	4929	466900.14	3116032.20	5.03	-3.34
43	5073	466912.70	3116020.97	5.12	-4.26
44	4931	466908.49	3116031.19	5.05	-4.26
45	5075	466917.99	3116025.10	5.15	-3.54
46	4933	466912.83	3116035.17	5.25	-3.98
47	5077	466924.01	3116025.94	5.47	-4.14
48	4935	466919.75	3116036.41	5.34	-3.95
49	5079	466930.25	3116029.19	4.92	-4.15
50	4937	466924.51	3116039.39	5.56	-3.56
51	5081	466935.97	3116030.24	5.00	-4.51
52	4939	466930.50	3116040.57	5.42	-3.71
53	5083	466941.76	3116033.12	5.03	-4.05
54	4941	466935.98	3116044.36	5.53	-3.97
55	5085	466947.07	3116034.63	5.00	-4.22
56	4943	466942.21	3116045.49	5.74	-3.47
57	5087	466952.62	3116038.66	5.40	-3.90
58	4945	466947.89	3116049.17	5.38	-4.29
59	5089	466958.96	3116040.41	5.39	-4.18
60	4947	466953.96	3116051.19	5.90	-3.22
61	5091	466963.95	3116043.47	5.42	-3.91
62	4949	466959.79	3116053.24	5.85	-3.49
63	5093	466970.13	3116045.26	5.23	-4.22
64	4951	466965.33	3116055.71	5.30	-4.14
65	5095	466976.47	3116049.10	5.33	-3.86

WAD NUMBER	SURVEY POINT NUMBER	NORTHING	EASTING	TOP OF WAD ELEVATION	MUDLINE ELEVATION
66	4953	466969.23	3116059.49	5.14	-4.19
67	5097	466982.05	3116050.49	5.11	-4.01
68	4955	466976.87	3116060.23	5.42	-4.02
69	5099	466986.98	3116054.01	4.99	-4.23
70	4957	466981.76	3116063.87	5.17	-3.69
71	5101	466992.41	3116055.00	4.82	-4.06
72	4959	466988.11	3116065.24	5.08	-3.86
73	5103	466997.42	3116058.07	4.86	-3.68
74	4961	466993.07	3116068.74	5.38	-3.28
75	5105	467002.91	3116058.59	4.72	-4.47
76	4963	466998.59	3116070.17	5.07	-4.05
77	5107	467007.88	3116062.64	4.84	-4.47
78	4965	467003.75	3116073.92	4.84	-4.26
79	5109	467014.02	3116064.45	4.54	-4.66
80	4967	467010.31	3116074.74	4.98	-4.34
81	5111	467019.88	3116067.35	4.53	-4.41
82	4969	467015.87	3116078.43	5.20	-3.93
83	5113	467026.35	3116069.08	4.53	-4.54
84	4971	467021.79	3116079.95	4.90	-4.33
85	5115	467031.34	3116072.59	4.79	-4.18
86	4973	467026.70	3116083.61	5.08	-4.21
87	5117	467037.19	3116074.05	4.81	-4.10
88	4975	467033.34	3116084.82	5.07	-3.92
89	5119	467043.99	3116077.79	4.95	-4.41
90	4977	467039.40	3116087.70	5.06	-3.96
91	5121	467049.97	3116079.51	4.60	-4.57
92	4979	467045.26	3116089.80	4.93	-4.33
93	5123	467055.43	3116082.98	4.61	-4.40
94	4981	467050.73	3116093.47	4.73	-4.47
95	5125	467062.19	3116084.25	4.86	-4.51
96	4983	467057.07	3116095.00	5.06	-4.21
97	5127	467067.69	3116087.17	5.02	-4.43
98	4985	467062.65	3116098.24	4.74	-4.15
99	5129	467072.97	3116088.69	4.64	-4.30
100	4987	467068.38	3116099.37	4.69	-4.70
101	5131	467077.79	3116093.04	4.69	-4.28
102	4989	467072.87	3116102.72	4.81	-4.12
103	5133	467084.12	3116093.67	4.30	-4.73
104	4991	467079.76	3116104.14	4.77	-3.90
105	5135	467089.06	3116096.55	4.21	-4.23
106	4993	467084.56	3116107.89	4.78	-4.15
107	5137	467095.38	3116099.51	4.28	-4.65
108	4995	467090.64	3116109.29	4.56	-4.16
109	5139	467100.54	3116102.92	4.24	-4.57
110	4997	467094.67	3116113.63	4.53	-4.05
111	5141	467106.88	3116104.84	4.34	-4.61
112	4999	467101.36	3116115.55	4.64	-4.83
113	5143	467111.45	3116108.77	4.19	-4.62
114	5001	467106.36	3116119.72	4.62	-4.61
115	5145	467117.22	3116111.44	4.36	-4.83
116	5003	467112.81	3116121.83	4.76	-4.69
117	5147	467122.21	3116115.30	4.45	-4.69
118	5005	467117.67	3116125.76	4.75	-4.62
119	5149	467128.06	3116117.86	4.35	-4.68
120	5007	467124.15	3116128.37	4.68	-4.54
121	5151	467133.75	3116122.12	4.27	-4.84
122	5009	467128.30	3116132.51	4.69	-4.26
123	5153	467139.89	3116123.42	4.31	-4.78
124	5011	467135.20	3116133.88	4.67	-3.96
125	5155	467144.92	3116127.40	4.31	-4.95
126	5013	467139.56	3116136.97	5.00	-4.16
127	5157	467150.25	3116128.12	4.15	-4.09
128	5015	467146.39	3116138.66	4.58	-4.24
129	5159	467154.43	3116133.29	4.39	-4.61
130	5017	467154.90	3116143.82	4.72	-4.68

WAD NUMBER	SURVEY POINT NUMBER	NORTHING	EASTING	TOP OF WAD ELEVATION	MUDLINE ELEVATION
131	5161	467160.64	3116133.84	4.45	-4.85
132	5019	467161.21	3116147.49	4.81	-4.59
133	5163	467166.47	3116137.28	4.52	-4.29
134	5021	467167.60	3116149.24	4.72	-4.44
135	5165	467173.00	3116139.67	4.41	-4.97
136	5023	467173.30	3116153.55	4.68	-4.58
137	5167	467178.35	3116143.42	4.28	-4.92
138	5025	467179.97	3116155.32	4.73	-4.62
139	5027	467184.35	3116159.42	4.70	-4.78
140	5169	467184.35	3116146.72	4.38	-4.55
141	5171	467189.45	3116149.99	4.61	-4.53
142	5029	467191.55	3116161.62	4.72	-4.70
143	5173	467196.86	3116152.21	4.40	-4.63
144	5031	467197.72	3116165.77	4.68	-4.62
145	5175	467202.88	3116156.19	4.72	-4.18
146	5033	467205.27	3116168.91	4.67	-4.57
147	5177	467210.89	3116159.24	4.60	-4.79
148	5035	467212.56	3116173.52	4.75	-4.81
149	5179	467216.59	3116162.48	4.56	-4.15
150	5037	467221.09	3116177.23	4.55	-4.47
151	5181	467223.11	3116165.66	4.50	-4.70
152	5039	467229.61	3116181.21	4.58	-4.56
153	5183	467229.60	3116168.77	4.39	-4.86
154	5187	467242.84	3116175.91	4.58	-4.81
155	5185	467236.70	3116172.07	4.26	-5.08

RECORD DRAWING

THIS RECORD DRAWING HAS BEEN PREPARED BASED ON A COMBINATION OF INFORMATION PROVIDED BY NRCS AND BY CDM SMITH. THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF ALL THE INFORMATION TO THE BEST OF THE ENGINEER'S BELIEF AND KNOWLEDGE, THE INCLUDED RECORD INFORMATION IS REASONABLY ACCURATE.

By Barringer Date MAY 2014

CDM Smith

FOR DEMONSTRATION PROJECT PURPOSES ONLY

AS-BUILT

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NATURAL RESOURCES CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
LA-16 NON-ROCK ALTERNATIVES TO SHORELINE PROTECTION DEMONSTRATION PROJECT

WAD NUMBERS AND COORDINATES

PROJECT NO. 129859-95110
FILE NAME: WAD DATA.dwg
SHEET NO.
CZ-4-AB