



Appendix F

As-Built Drawings with Survey Verification

TEXAS GENERAL LAND OFFICE

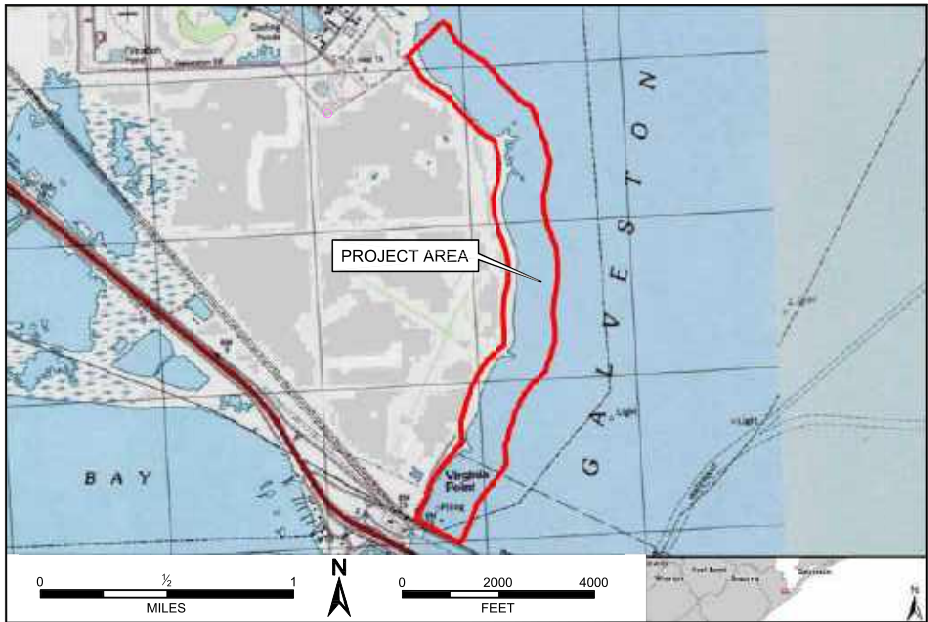
IN PARTNERSHIP WITH SCENIC GALVESTON, INC.

VIRGINIA POINT WETLAND PROTECTION PROJECT

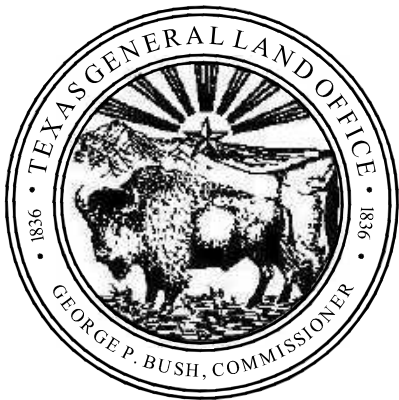
GALVESTON COUNTY, TEXAS
PROJECT No. 1596 SEPTEMBER 2016



VICINITY MAP
N.T.S.



LOCATION MAP
N.T.S.



COMMISSIONER
GEORGE P. BUSH



THIS PROJECT IS FUNDED IN PART BY A FINANCIAL ASSISTANCE AWARD
FROM THE U.S. DEPARTMENT OF THE INTERIOR, U.S. FISH AND WILDLIFE
SERVICE, COASTAL IMPACT ASSISTANCE PROGRAM.



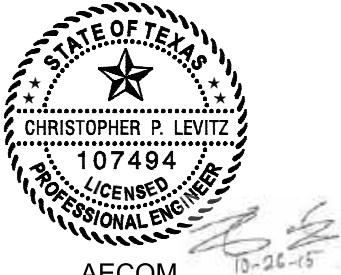
TEXAS GENERAL LAND OFFICE CONTACT

CARLA KARTMAN
PROJECT MANAGER
1700 NORTH CONGRESS AVENUE
AUSTIN, TEXAS 78701
PHONE: (512) 463-8753
FAX: (512) 475-0680

SCENIC GALVESTON CONTACT

LALISE MASON
VICE PRESIDENT & HABITAT
RESTORATION CHAIRMAN
20 COLONY PARK CIRCLE
GALVESTON, TEXAS 77551
PHONE: (713) 725-8101

DRAWING NO.	DRAWING INDEX
1596-T100	TITLE SHEET
1596-G100	GENERAL ARRANGEMENT
1596-G101	CONSTRUCTION ACCESS & HAUL ROUTES
1596-G102	BREAKWATER COORDINATES - STA. 0+00 TO 20+73
1596-G103	BREAKWATER COORDINATES - STA. 20+73 TO 43+60
1596-G104	BREAKWATER COORDINATES - STA. 43+60 TO 61+93
1596-G105	BREAKWATER COORDINATES - STA. 61+93 TO 81+91
1596-G106	BREAKWATER COORDINATES - STA. 81+91 TO 102+00
1596-C100	SITE PLAN - STA. 0+00 TO STA. 20+73
1596-C101	SITE PLAN - STA. 20+73 TO STA. 43+60
1596-C102	SITE PLAN - STA. 43+60 TO STA. 61+93
1596-C103	SITE PLAN - STA. 61+93 TO STA. 81+91
1596-C104	SITE PLAN - STA. 81+91 TO STA. 102+00
1596-C105	BREAKWATER "A" DETAILS
1596-C106	BREAKWATER "B" DETAILS
1596-C107	REVTMENT "R" AND SIGNAGE DETAILS

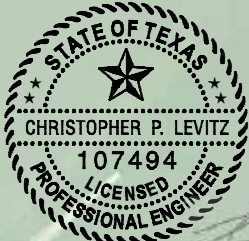
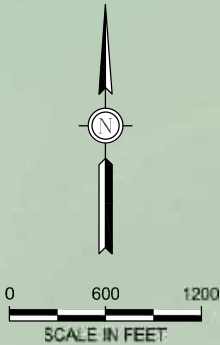


AECOM
FIRM REGISTRATION No. 3580

AECOM
19219 KATY FREEWAY, SUITE 100
HOUSTON, TEXAS 77094
PHONE: (281) 646-2400
FAX: (281) 646-2401

PROJECT No. 60433394
GLO DWG. No: 1596 - T100
SHEET No. 1 OF 16 SHEETS

File: Q:\Projects\WTR\60433394_Virginia\Con\Draws\ACAD\2016_As-Built\1596 - G100 - General Arrangement - Breakwater B and A1 - Revised.dwg Layout: G-100 GENERAL ARRANGEMENT User: taylor.nordstrom Plotted: Sep 20, 2016 - 4:12pm



AECOM
FIRM REGISTRATION No. 3580

LEGEND:

- EXISTING CONTOUR (CONTOUR INTERVAL = 1 FOOT)
- PROJECT SIGN
- 10+00 SURVEY BASELINE STATIONING
- BREAKWATER "A" FOOTPRINT
- BREAKWATER "B" FOOTPRINT
- BREAKWATER "R" FOOTPRINT
- OYSTER REEFS

GENERAL NOTES:

1. SURVEY COMPLETED ON MARCH 10-11, 2013 BY NAISMITH MARINE SERVICES. HORIZONTAL DATUM IS NAD83, TEXAS SOUTH CENTRAL ZONE, US FEET. VERTICAL DATUM IS NAVD'88, US FEET.

REFERENCE CONTROL MONUMENTS:

'3200 L 5800'
NORTH: 13,691,249.77' EAST: 3,273,882.22'
ELEV: 7.33'
'1488 C 2012'
NORTH: 13,680,977.18' EAST: 3,275,184.41'
ELEV: 11.93'
MHHW: 1.03' MHW: 0.96'
MLW: -0.02' MLLW: -0.21'

					8	AS-BUILTS	CL	9/19/16
					7	ENGINEER'S SUPPLEMENTAL INSTRUCTIONS #3	CL	9/6/16
					6	ENGINEER'S SUPPLEMENTAL INSTRUCTIONS #2	CL	8/18/16
	2	ISSUE FOR CONSTRUCTION	EL	8/4/14	5	CHANGE ORDER #2 - PROJECT SIGNAGE	CL	7/15/16
	1	95 % DESIGN	EL	7/1/14	4	RE-ISSUE FOR BID	CL	10/26/15
	0	70 % DESIGN	EL	9/13/13	3	ISSUE FOR REVIEW	CL	9/25/15
REFERENCES	REV	DESCRIPTION	CHECKED BY	DATE	REV	DESCRIPTION	CHECKED BY	DATE

DRAWING SCALE	1" = 1200'
REFERENCE NAMES	DATE
DESIGNED BY:	TN 8/4/14
DRAWN BY:	NAB 8/4/14
CHECKED BY:	CL 10/26/15
APPROVED BY:	CL 10/26/15
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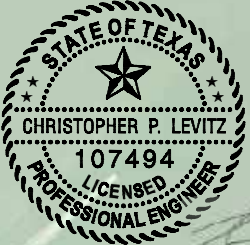


GENERAL LAND OFFICE / SCENIC GALVESTON, INC.
VIRGINIA POINT WETLAND PROTECTION PROJECT
GALVESTON COUNTY, TEXAS

GENERAL ARRANGEMENT

JOB NO.	60433394
REVISION	8
DRAWING NO.	1596-G100

File: Q:\Projects\WTR\60433394_Virginia\Con\Draws\ACAD\2016_As-Built\1596 - G101 - Construction Access and Haul Routes.dwg Layout: G-101 CONST ACCESS AND HAUL ROUTES User: taylor.nordstrom Plotted: Sep 20, 2016 - 4:17pm



AECOM
FIRM REGISTRATION No. 3580

LEGEND:

- 10+00 SURVEY BASELINE STATIONING PROJECT SIGN
- BREAKWATER "A" FOOTPRINT
- BREAKWATER "B" FOOTPRINT
- BREAKWATER "R" FOOTPRINT
- OYSTER REEFS

GENERAL NOTES:

- CONSTRUCTION AND SITE ACCESS SHALL BE BY WATER. LAND-BASED ACCESS TO BE COORDINATED AS NEEDED WITH SITE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR RESTORING CONSTRUCTION ENTRANCE AND HAUL ROUTES TO ORIGINAL CONDITION OR BETTER AFTER THE COMPLETION OF THE PROJECT.
- ACCESS IS RESTRICTED AT THE SOUTHERNMOST ENTRANCE DUE TO RAILROAD OVERPASS AND TIDAL FLOODING.
- ACCESS IS RESTRICTED AT THE NORTHERNMOST ENTRANCE DUE TO EXISTING SENSITIVE MARSH AREA.
- UNMAINTAINED CHANNEL AT THE NORTHERNMOST ENTRANCE MAY BE USED TO PROVIDE NEARSHORE ACCESS TO THE SITE. CONTRACTOR TO PROVIDE MATTING AS NECESSARY.
- CONTOURS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY ALL BATHYMETRY TO SUPPORT SITE ACCESS BY SHALLOW DRAFT BARGES.

					8	AS-BUILTS	CL	9/19/16
					7	ENGINEER'S SUPPLEMENTAL INSTRUCTIONS #3	CL	9/6/16
					6	ENGINEER'S SUPPLEMENTAL INSTRUCTIONS #2	CL	8/18/16
	2	ISSUE FOR CONSTRUCTION	EL	8/6/14	5	CHANGE ORDER #2 - PROJECT SIGNAGE	CL	7/15/16
	1	95 % DESIGN	EL	7/1/14	4	RE-ISSUE FOR BID	CL	10/26/15
	0	70 % DESIGN	EL	9/13/13	3	ISSUE FOR REVIEW	CL	9/25/15
REFERENCES	REV	DESCRIPTION	CHECKED BY	DATE	REV	DESCRIPTION	CHECKED BY	DATE

DRAWING SCALE	1" = 1200'
REFERENCE NAMES	DATE
DESIGNED BY:	TN 8/4/14
DRAWN BY:	NAB 8/4/14
CHECKED BY:	CL 10/26/15
APPROVED BY:	CL 10/26/15
FILE	PROJECTS\WTR\60433394_Virginia\Con\Draws\ACAD\2016_As-Built\1596 - G101 - CONSTRUCTION ACCESS AND HAUL ROUTES.DWG



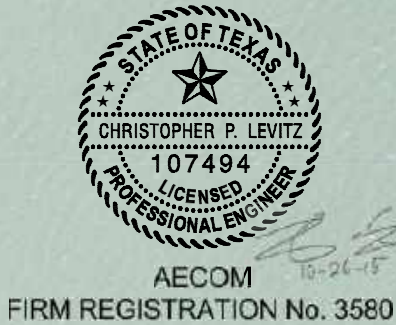
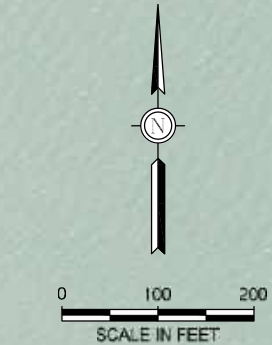
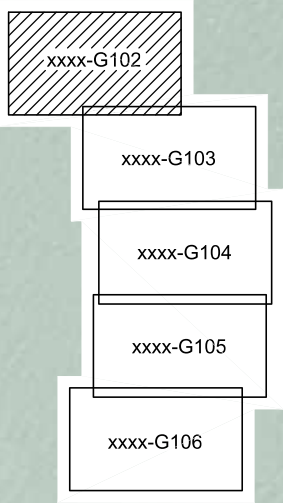
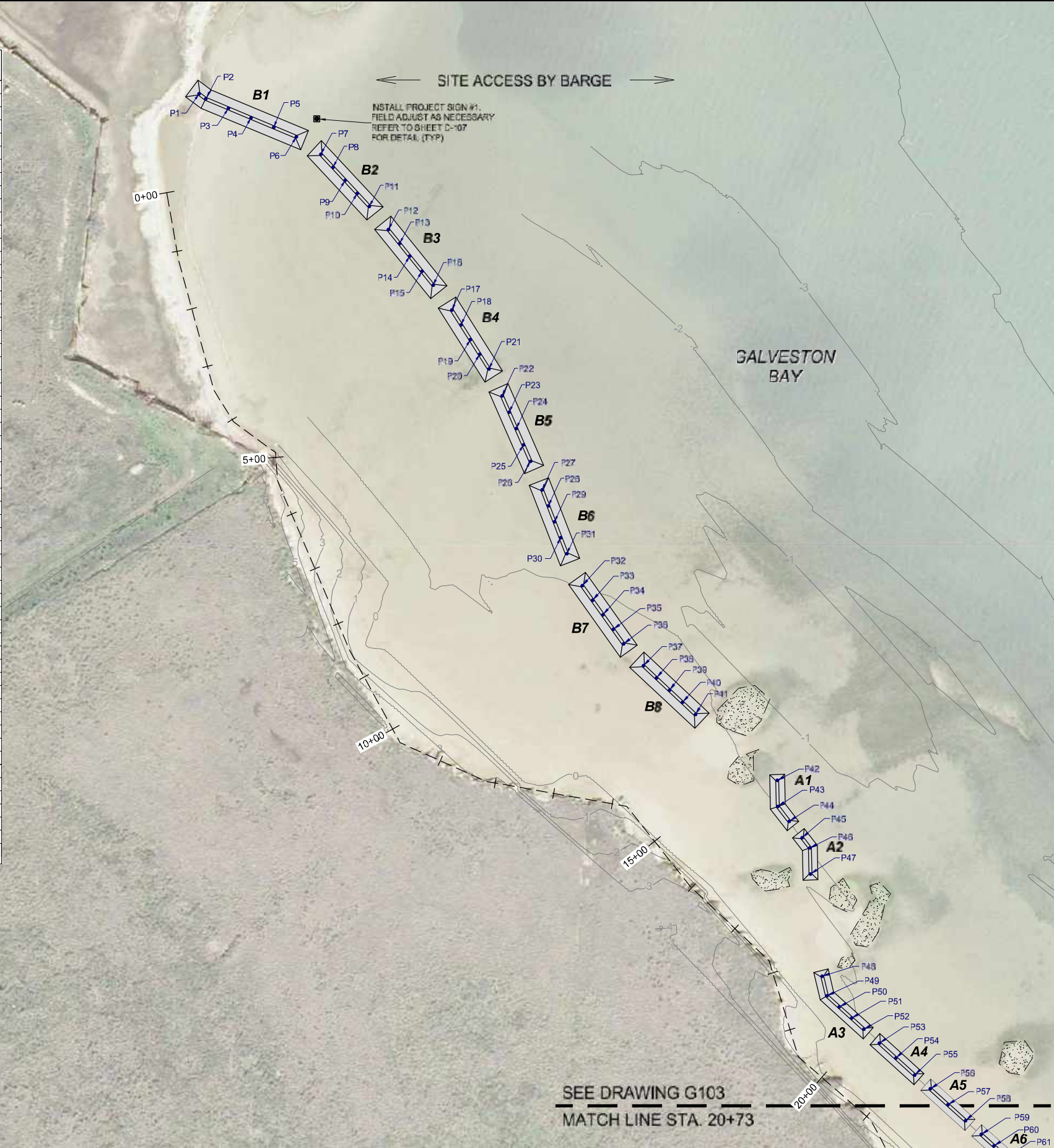
GENERAL LAND OFFICE / SCENIC GALVESTON, INC.
VIRGINIA POINT WETLAND PROTECTION PROJECT
GALVESTON COUNTY, TEXAS

CONSTRUCTION ACCESS & HAUL ROUTES

JOB NO.	60433394
REVISION	8
DRAWING NO.	1596-G101

File: Q:\Projects\WTR\60433394_VrgPntCon\Draws\ACAD\2016_As-Built\1596 - Sta 0 to 20+73.dwg Layout: G102 User: taylor.mcdonnam Polled: Sep 20, 2016 - 4:21pm

BREAKWATER NO.	POINT NO.	NORTHING COORDINATE	EASTING COORDINATE	CREST ELEVATION
B1	P1	13691103.480	3275069.753	+3'
	P2	13691094.944	3275081.178	
	P3	13691078.992	3275119.259	+1.5'
	P4	13691063.040	3275157.340	+3'
	P5	13691047.087	3275195.420	+1.5'
	P6	13691031.135	3275233.501	+3'
	P7	13691001.759	3275274.808	+3'
B2	P8	13690979.848	3275295.195	+1.5'
	P9	13690957.936	3275315.582	+3'
	P10	13690936.025	3275335.969	+1.5'
	P11	13690914.114	3275356.356	+3'
B3	P12	13690875.021	3275388.326	+3'
	P13	13690851.678	3275407.169	+1.5'
	P14	13690830.563	3275424.213	+3'
	P15	13690804.991	3275444.854	+1.5'
B4	P16	13690781.647	3275463.697	+3'
	P17	13690739.657	3275495.015	+3'
	P18	13690714.928	3275510.635	+1.5'
	P19	13690690.198	3275526.255	+3'
B5	P20	13690665.468	3275541.876	+1.5'
	P21	13690640.738	3275557.496	+3'
	P22	13690595.603	3275579.470	+3'
	P23	13690568.123	3275591.504	+1.5'
B6	P24	13690540.642	3275603.538	+3'
	P25	13690513.162	3275615.572	+1.5'
	P26	13690485.681	3275627.606	+3'
	P27	13690437.491	3275647.003	+3'
B7	P28	13690410.686	3275657.399	+1.5'
	P29	13690383.882	3275667.796	+3'
	P30	13690357.078	3275678.192	+1.5'
	P31	13690330.273	3275688.589	+3'
B8	P32	13690276.445	3275714.364	+3'
	P33	13690251.999	3275731.753	+1.5'
	P34	13690227.553	3275749.141	+3'
	P35	13690203.108	3275766.530	+1.5'
A1	P36	13690178.662	3275783.919	+3'
	P37	13690141.926	3275817.216	+3'
	P38	13690121.406	3275839.100	+1.5'
	P39	13690100.886	3275860.984	+3'
A2	P40	13690080.366	3275882.868	+1.5'
	P41	13690059.847	3275904.751	+3'
	P42	13689949.201	3276042.394	+3'
	P43	13689905.255	3276043.262	+1.5'
A3	P44	13689880.353	3276062.598	+3'
	P45	13689852.707	3276084.066	+3'
	P46	13689835.703	3276097.269	+1.5'
	P47	13689791.757	3276098.137	+3'
A4	P48	13689619.943	3276117.732	+3'
	P49	13689586.937	3276125.900	+1.5'
	P50	13689568.250	3276146.604	+3'
	P51	13689549.564	3276167.308	+1.5'
A5	P52	13689530.877	3276188.013	+3'
	P53	13689507.425	3276213.997	+3'
	P54	13689482.477	3276241.870	+1.5'
	P55	13689453.829	3276273.381	+3'
A6	P56	13689430.721	3276299.680	+3'
	P57	13689403.923	3276329.371	+1.5'
	P58	13689377.125	3276359.063	+3'
PROJECT SIGN #1 (FIELD ADJUST AS NECESSARY)		13691061.447	3275267.711	N/A



LEGEND:

- A** BREAKWATER DESIGNATION
- EXISTING CONTOUR (CONTOUR INTERVAL = 1 FOOT)
- 10+00 SURVEY BASELINE STATIONING
- BREAKWATER "A" FOOTPRINT
- BREAKWATER "B" FOOTPRINT
- REVETMENT "R" FOOTPRINT
- OYSTER REEFS
- PROJECT SIGN

GENERAL NOTES:

- SURVEY COMPLETED ON MARCH 10-11, 2013 BY NAISMITH MARINE SERVICES. HORIZONTAL DATUM IS NAD83, TEXAS SOUTH CENTRAL ZONE, US FEET. VERTICAL DATUM IS NAVD'88, US FEET.
REFERENCE CONTROL MONUMENTS:
'3200 L 5800'
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NORTH: 13,680,977.18' EAST: 3,275,184.41'
ELEV: 11.93'
MHHW: 1.03' MHW: 0.96'
MLW: -0.02' MLLW: -0.21'
- MAINTAIN A BUFFER DISTANCE OF 50 FEET FROM THE OYSTER REEFS AT ALL TIMES.

						7	AS-BUILTS	CL	9/19/16
						6	ENGINEER'S SUPPLEMENTAL INSTRUCTIONS #2	CL	8/18/16
						5	CHANGE ORDER #2 - PROJECT SIGNAGE	CL	7/15/16
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	1	95 % DESIGN	EL	7/1/14					
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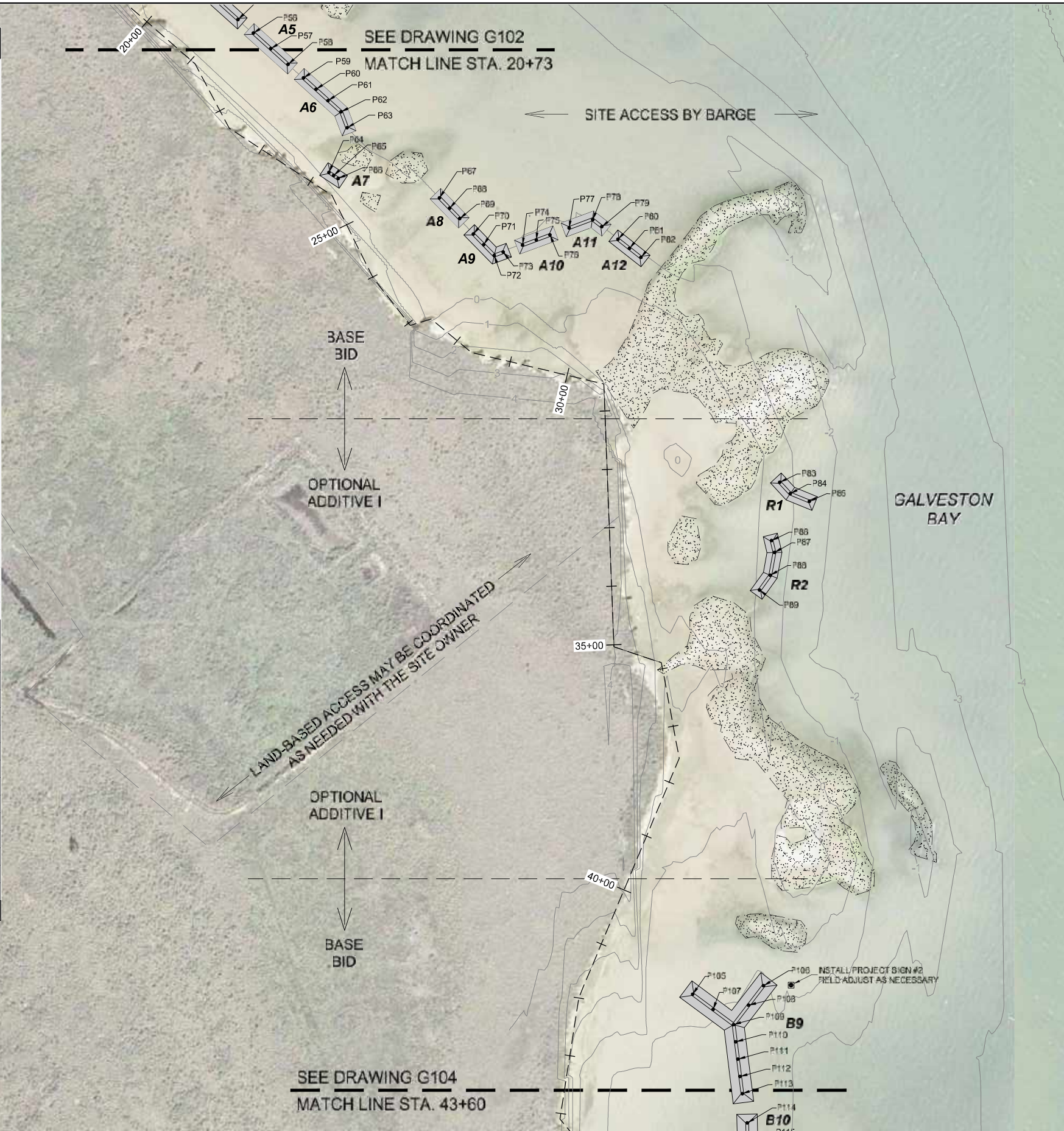
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REFERENCE NAMES	DATE
DESIGNED BY: TN	8/4/14
DRAWN BY: NAB	8/4/14
CHECKED BY: CL	10/26/15
APPROVED BY: CL	10/26/15
FILE: \\PROJECTS\WTR\60433394_VrgPntCon\Draws\ACAD\2016_As-Built\1596 - STA 0 TO 20+73.DWG	



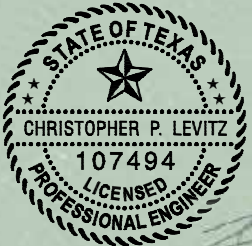
GENERAL LAND OFFICE / SCENIC GALVESTON, INC.		JOB NO. 60433394
VIRGINIA POINT WETLAND PROTECTION PROJECT GALVESTON COUNTY, TEXAS		REVISION 7
BREAKWATER COORDINATES STA. 0+00 TO STA. 20+73		DRAWING NO. 1596-G102

File: C:\Projects\WTR\60433394_Virginia\Con\Draws\G103\2016_As-Built\1596 - G103 - Coordinates - Breakwater B and A1 - Sta 20+73 to 43+60.dwg Layout: G103 User: taylor.nordstrom Plotted: Sep 20, 2016 - 4:33pm

BREAKWATER NO.	POINT NO.	NORTHING COORDINATE	EASTING COORDINATE	CREST ELEVATION
A5	P56	13689430.721	3276299.680	+3'
	P57	13689403.923	3276329.371	+1.5'
	P58	13689377.125	3276359.063	+3'
A6	P59	13689354.017	3276385.362	+3'
	P60	13689334.648	3276406.823	+1.5'
	P61	13689315.178	3276427.260	+3'
	P62	13689295.910	3276449.743	+1.5'
A7	P63	13689268.782	3276459.813	+3'
	P64	13689192.364	3276428.844	+3'
	P65	13689187.162	3276436.794	+3'
	P66	13689181.960	3276444.743	+3'
A8	P67	13689148.854	3276617.843	+3'
	P68	13689131.168	3276635.152	+1.5'
	P69	13689113.481	3276652.462	+3'
A9	P70	13689087.234	3276675.864	+3'
	P71	13689068.752	3276693.572	+1.5'
	P72	13689050.391	3276711.557	+3'
	P73	13689056.079	3276727.015	+3'
A10	P74	13689068.231	3276760.042	+3'
	P75	13689076.831	3276783.414	+1.5'
	P76	13689085.430	3276806.786	+3'
A11	P77	13689097.516	3276839.633	+3'
	P78	13689111.379	3276880.009	+3'
	P79	13689099.593	3276895.535	+3'
A12	P80	13689077.997	3276923.077	+3'
	P81	13689062.571	3276942.750	+1.5'
R1	P82	13689047.144	3276962.423	+3'
	P83	13688662.526	3277199.787	+1.5'
R2	P84	13688643.117	3277217.814	+1.5'
	P85	13688629.980	3277250.394	+1.5'
	P86	13688562.802	3277185.890	+1.5'
B9	P87	13688542.571	3277190.781	+1.5'
	P88	13688503.638	3277183.569	+1.5'
	P89	13688478.050	3277165.217	+1.5'
	P105	13687787.050	3277050.912	+3'
B10	P106	13687801.646	3277172.051	+3'
	P107	13687761.096	3277085.895	+1.5'
	P108	13687768.394	3277146.465	+1.5'
	P109	13687735.142	3277120.878	+3'
	P110	13687705.570	3277124.633	+1.5'
B9	P111	13687675.984	3277128.275	+3'
	P112	13687646.399	3277131.918	+1.5'
	P113	13687616.855	3277135.895	+3'
	P114	13687566.932	3277144.149	+3'
	P115	13687538.579	3277144.740	+1.5'
B10	P116	13687510.381	3277145.328	+3'
	P117	13687482.183	3277145.917	+1.5'
	P118	13687453.986	3277146.505	+3'
PROJECT SIGN #2 (FIELD ADJUST AS NECESSARY)		13687802.804	3277219.198	N/A



- xxxx-G102
- xxxx-G103
- xxxx-G104
- xxxx-G105
- xxxx-G106



AECOM
FIRM REGISTRATION No. 3580

LEGEND:

- A** BREAKWATER DESIGNATION
- PROJECT SIGN
- EXISTING CONTOUR
(CONTOUR INTERVAL = 1 FOOT)
- 10+00 SURVEY BASELINE STATIONING
- BREAKWATER "A" FOOTPRINT
- BREAKWATER "B" FOOTPRINT
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- OYSTER REEFS

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REFERENCES	REV	DESCRIPTION	CHECKED BY	DATE	REV	DESCRIPTION	CHECKED BY	DATE
	2	ISSUE FOR CONSTRUCTION	EL	8/4/14	5			
	1	95 % DESIGN	EL	7/1/14	4			
	0	70 % DESIGN	EL	9/13/13	3			

DRAWING SCALE 1" = 200'	
REFERENCE NAMES	DATE
DESIGNED BY: TN	8/4/14
DRAWN BY: NAB	8/4/14
CHECKED BY: CL	10/26/15
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FILE: C:\Projects\WTR\60433394_Virginia\Con\Draws\G103\2016_As-Built\1596 - G103 - COORDINATES - BREAKWATER B AND A1 - STA 20+73 TO 43+60.DWG	



GENERAL LAND OFFICE / SCENIC GALVESTON, INC.
VIRGINIA POINT WETLAND PROTECTION PROJECT
GALVESTON COUNTY, TEXAS

BREAKWATER COORDINATES
STA. 20+73 TO STA. 43+60

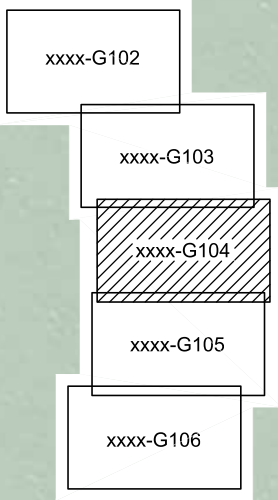
JOB NO. 60433394
REVISION 8
DRAWING NO. 1596-G103

File: O:\Projects\WTR\604333394_Virginia\Con\Draws\ACAD\2016\As-Built\1596 - G104 - Coordinates - Breakwater B and A1 - Sta 43+60 to 61+93.dwg Layout: G104 User: taylor.nordstrom Plotted: Sep 21, 2016 - 4:15pm

BREAKWATER NO.	POINT NO.	NORTHING COORDINATE	EASTING COORDINATE	CREST ELEVATION
B9	P111	13687675.984	3277128.275	+3'
	P112	13687646.399	3277131.918	+1.5'
	P113	13687616.855	3277135.895	+3'
B10	P114	13687566.932	3277144.149	+3'
	P115	13687538.579	3277144.740	+1.5'
	P116	13687510.381	3277145.328	+3'
	P117	13687482.183	3277145.917	+1.5'
	P118	13687453.986	3277146.505	+3'
B11	P119	13687407.367	3277146.928	+3'
	P120	13687377.396	3277146.479	+1.5'
	P121	13687347.424	3277146.029	+3'
	P122	13687317.453	3277145.580	+1.5'
B12	P123	13687288.628	3277154.165	+3'
	P124	13687245.501	3277167.010	+3'
	P125	13687216.749	3277175.573	+1.5'
	P126	13687187.997	3277184.137	+3'
B13	P127	13687159.245	3277192.700	+1.5'
	P128	13687130.493	3277201.263	+3'
	P129	13687085.845	3277215.511	+3'
	P130	13687058.534	3277224.495	+1.5'
B14	P131	13687031.223	3277233.479	+3'
	P132	13687003.912	3277242.464	+1.5'
	P133	13686976.601	3277251.448	+3'
	P134	13686931.534	3277267.574	+3'
B15	P135	13686903.958	3277279.388	+1.5'
	P136	13686876.382	3277291.201	+3'
	P137	13686848.806	3277303.015	+1.5'
	P138	13686821.230	3277314.829	+3'
B16	P139	13686779.865	3277332.549	+3'
	P140	13686763.190	3277339.692	
	P141	13686741.319	3277326.651	+1.5'
	P142	13686719.447	3277313.609	+3'
B17	P143	13686697.575	3277300.568	+1.5'
	P144	13686675.704	3277287.526	+3'
	P145	13686637.053	3277264.479	+3'
	P146	13686605.048	3277245.395	+1.5'
B18	P147	13686573.042	3277226.311	+3'
	P148	13686541.037	3277207.227	+1.5'
	P149	13686509.807	3277214.621	+3'
	P150	13686389.143	3277243.188	+3'
B19	P151	13686370.789	3277247.533	
	P152	13686357.585	3277276.261	+1.5'
	P153	13686344.381	3277304.988	+3'
	P154	13686331.178	3277333.715	+1.5'
B20	P155	13686317.974	3277362.442	+3'
	P156	13686299.181	3277403.330	+3'
	P157	13686286.497	3277430.926	+1.5'
	P158	13686273.814	3277458.521	+3'
B21	P159	13686244.207	3277457.358	+1.5'
	P160	13686214.601	3277456.196	+3'
	P161	13686169.635	3277454.430	+3'
	P162	13686142.156	3277453.351	+1.5'
B22	P163	13686114.678	3277452.272	+3'
	P164	13686087.199	3277451.193	+1.5'
	P165	13686059.720	3277450.114	+3'
	P166	13686014.755	3277448.348	+3'
B23	P167	13685988.525	3277447.318	+1.5'
	P168	13685962.295	3277446.288	+3'
	P169	13685936.065	3277445.258	+1.5'
	P170	13685909.836	3277444.228	+3'
B24	P171	13685859.775	3277434.873	+3'
	P172	13685836.734	3277429.115	+1.5'
	P173	13685813.693	3277423.356	+3'
	P174	13685790.651	3277417.597	+1.5'
B25	P175	13685767.610	3277411.838	+3'

SEE DRAWING G103
MATCH LINE STA. 43+60

SEE DRAWING G105
MATCH LINE STA. 61+93



AECOM
FIRM REGISTRATION No. 3580

LEGEND:

- A** BREAKWATER DESIGNATION
- EXISTING CONTOUR (CONTOUR INTERVAL = 1 FOOT)
- 10+00 SURVEY BASELINE STATIONING
- BREAKWATER "A" FOOTPRINT
- BREAKWATER "B" FOOTPRINT
- BREAKWATER "R" FOOTPRINT
- OYSTER REEFS

GENERAL NOTES:

- SURVEY COMPLETED ON MARCH 10-11, 2013 BY NAISMITH MARINE SERVICES. HORIZONTAL DATUM IS NAD83, TEXAS SOUTH CENTRAL ZONE, US FEET. VERTICAL DATUM IS NAVD'88, US FEET.

REFERENCE CONTROL MONUMENTS:

'3200 L 5800'
NORTH: 13,691,249.77' EAST: 3,273,882.22'
ELEV: 7.33'

'1488 C 2012'
NORTH: 13,680,977.18' EAST: 3,275,184.41'
ELEV: 11.93'

MHHW: 1.03' MHW: 0.96'
MLW: -0.02' MLLW: -0.21'
- MAINTAIN A BUFFER DISTANCE OF 50 FEET FROM THE OYSTER REEFS AT ALL TIMES.

					5	AS-BUILTS	CL	9/19/16
					4	RE-ISSUE FOR BID	CL	10/26/15
					3	ISSUE FOR REVIEW	CL	9/25/15
					2	ISSUE FOR CONSTRUCTION	EL	8/4/14
					1	95 % DESIGN	EL	7/1/14
					0	70 % DESIGN	EL	9/13/13
REFERENCES	REV	DESCRIPTION	CHECKED BY	DATE	REV	DESCRIPTION	CHECKED BY	DATE

DRAWING SCALE	1" = 200'
REFERENCE NAMES	DATE
DESIGNED BY:	TN 8/4/14
DRAWN BY:	NAB 8/4/14
CHECKED BY:	CL 10/26/15
APPROVED BY:	CL 10/26/15
FILE	PROJECTS\WTR\604333394_VIRGINIA\CON\DWGS\ACAD\2016\AS-BUILT\1596 - G104 - COORDINATES - BREAKWATER B AND A1 - STA 43+60 TO 61+93.DWG



GENERAL LAND OFFICE / SCENIC GALVESTON, INC. VIRGINIA POINT WETLAND PROTECTION PROJECT GALVESTON COUNTY, TEXAS	JOB NO. 60433394
BREAKWATER COORDINATES STA. 43+60 TO STA. 61+93	REVISION 5
	DRAWING NO. 1596-G104

File: C:\Projects\WTR\60433394_Virginia\Drawings\G105 - Breakwater B and A1 - Sta 61+93 to 81+91.dwg Layout: G105 User: taylor.nordstrom Plotted: Sep 20, 2016 - 4:38pm

BREAKWATER NO.	POINT NO.	NORTHING COORDINATE	EASTING COORDINATE	CREST ELEVATION
B20	P170	13685909.836	3277444.228	+3'
	P171	13685859.775	3277434.873	+3'
	P172	13685836.734	3277429.115	+1.5'
B21	P173	13685813.693	3277423.356	+3'
	P174	13685790.651	3277417.597	+1.5'
	P175	13685767.610	3277411.838	+3'
	P176	13685720.277	3277400.008	+3'
B22	P177	13685697.404	3277394.291	+1.5'
	P178	13685674.363	3277388.532	+3'
	P179	13685651.321	3277382.773	+1.5'
	P180	13685628.280	3277377.014	+3'
B23	P181	13685576.398	3277368.579	+3'
	P182	13685549.192	3277370.137	+1.5'
	P183	13685521.653	3277371.711	+3'
	P184	13685494.115	3277373.284	+1.5'
B24	P185	13685466.576	3277374.857	+3'
	P186	13685420.386	3277375.709	+3'
	P187	13685398.249	3277375.345	+1.5'
	P188	13685376.113	3277374.981	+3'
B25	P189	13685353.977	3277374.617	+1.5'
	P190	13685331.840	3277374.253	+3'
	P191	13685283.864	3277370.150	+3'
	P192	13685262.815	3277365.737	+1.5'
B26	P193	13685241.767	3277361.324	+3'
	P194	13685220.719	3277356.911	+1.5'
	P195	13685199.670	3277352.498	+3'
	P196	13685155.319	3277342.288	+3'
B27	P197	13685132.228	3277336.732	+1.5'
	P198	13685109.137	3277331.176	+3'
	P199	13685086.046	3277325.620	+1.5'
	P200	13685062.955	3277320.064	+3'
B28	P201	13685019.204	3277309.536	+3'
	P202	13685002.356	3277305.482	+1.5'
	P203	13684985.509	3277301.428	+3'
	P204	13684968.780	3277309.205	+1.5'
B29	P205	13684952.052	3277316.982	+3'
	P206	13684935.323	3277324.758	+3'
	P207	13684890.829	3277342.344	+3'
	P208	13684869.945	3277347.989	+1.5'
B30	P209	13684849.061	3277353.635	+3'
	P210	13684828.177	3277359.280	+1.5'
	P211	13684807.293	3277364.925	+3'
	P212	13684756.000	3277369.326	+3'
B31	P213	13684734.033	3277367.280	+1.5'
	P214	13684712.067	3277365.234	+3'
	P215	13684690.101	3277363.188	+1.5'
	P216	13684668.135	3277361.142	+3'
B32	P217	13684616.912	3277339.085	+3'
	P218	13684605.342	3277323.158	+1.5'
	P219	13684593.773	3277307.230	+3'
	P220	13684582.203	3277291.303	+1.5'
B33	P221	13684570.633	3277275.376	+3'
	P222	13684520.791	3277123.364	+3'
	P223	13684530.445	3277244.997	+3'
	P224	13684493.438	3277157.258	+1.5'
B34	P225	13684498.215	3277218.079	+1.5'
	P226	13684466.665	3277191.124	+3'
	P227	13684438.289	3277193.480	+1.5'
	P228	13684407.048	3277196.097	+3'
B35	P229	13684295.597	3276889.107	+3'
	P230	13684293.020	3276887.301	
	P231	13684272.361	3276887.320	+1.5'
	P232	13684251.702	3276887.338	+3'
B36	P233	13684231.043	3276887.357	+1.5'
	P234	13684210.384	3276887.375	+3'
	P235	13684164.766	3276887.302	+3'
	P236	13684141.029	3276886.463	+1.5'
B37	P237	13684117.291	3276885.624	+3'
	P238	13684093.554	3276884.785	+1.5'
	P239	13684069.817	3276883.946	+3'
	P240	13684021.035	3276872.918	+3'
B38	P241	13683993.045	3276863.601	+1.5'
	P242	13683965.055	3276854.285	+3'
	PROJECT SIGN #3 (FIELD ADJUST AS NECESSARY)			N/A

SEE DRAWING G106
MATCH LINE STA. 81+91

SEE DRAWING G104
MATCH LINE STA. 61+93

80+00

65+00

70+00

75+00

GALVESTON BAY

SITE ACCESS BY BARGE

LEGEND:

- A

BREAKWATER DESIGNATION
- EXISTING CONTOUR
(CONTOUR INTERVAL = 1 FOOT)
- 10+00

SURVEY BASELINE STATIONING
- BREAKWATER "A" FOOTPRINT
- BREAKWATER "B" FOOTPRINT
- REVTMENT "R" FOOTPRINT
- OYSTER REEFS
- PROJECT SIGN

GENERAL NOTES:

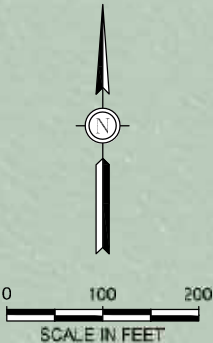
1. SURVEY COMPLETED ON MARCH 10-11, 2013 BY NAISMITH MARINE SERVICES. HORIZONTAL DATUM IS NAD83, TEXAS SOUTH CENTRAL ZONE, US FEET. VERTICAL DATUM IS NAVD'88, US FEET.

REFERENCE CONTROL MONUMENTS:

'3200 L 5800'
NORTH: 13,691,249.77' EAST: 3,273,882.22'
ELEV: 7.33'

'1488 C 2012'
NORTH: 13,680,977.18' EAST: 3,275,184.41'
ELEV: 11.93'

MHHW: 1.03' MHW: 0.96'
MLW: -0.02' MLLW: -0.21'
2. MAINTAIN A BUFFER DISTANCE OF 50 FEET FROM THE OYSTER REEFS AT ALL TIMES.



AECOM
FIRM REGISTRATION No. 3580

						6	AS-BUILTS	CL	9/19/16
						5	CHANGE ORDER #2 - PROJECT SIGNAGE	CL	7/15/16
						4	RE-ISSUE FOR BID	CL	10/26/15
						3	ISSUE FOR REVIEW	CL	9/25/15
						2	ISSUE FOR CONSTRUCTION	EL	8/4/14
		0	70 % DESIGN	EL	9/13/13	1	95 % DESIGN	EL	7/1/14
REFERENCES	REV		DESCRIPTION	CHECKED BY	DATE	REV	DESCRIPTION	CHECKED BY	DATE

DRAWING SCALE 1" = 200'	
REFERENCE NAMES	DATE
DESIGNED BY: TN	8/4/14
DRAWN BY: NAB	8/4/14
CHECKED BY: CL	10/26/15
APPROVED BY: CL	10/26/15
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GENERAL LAND OFFICE / SCENIC GALVESTON, INC.		JOB NO.
VIRGINIA POINT WETLAND PROTECTION PROJECT		60433394
GALVESTON COUNTY, TEXAS		REVISION
		6
BREAKWATER COORDINATES		DRAWING NO.
STA. 61+93 TO STA. 81+91		1596-G105

File: C:\Projects\WTR\60433394_VirginiaPoint\Drawings\G106 - Breakwater B and A1 - Sta 81+91 to 102.dwg User: taylor.nordstrom Plotted: Sep 20, 2016 - 4:39pm

BREAKWATER NO.	POINT NO.	NORTHING COORDINATE	EASTING COORDINATE	CREST ELEVATION
B33	P235	13684164.766	3276887.302	+3'
	P236	13684141.029	3276886.463	+1.5'
	P237	13684117.291	3276885.624	+3'
	P238	13684093.554	3276884.785	+1.5'
	P239	13684069.817	3276883.946	+3'
B34	P240	13684021.035	3276872.918	+3'
	P241	13683993.045	3276863.601	+1.5'
	P242	13683965.055	3276854.285	+3'
B35	P243	13683920.451	3276836.997	+3'
	P244	13683898.098	3276825.802	+1.5'
	P245	13683875.745	3276814.607	+3'
	P246	13683853.391	3276803.412	+1.5'
	P247	13683831.038	3276792.217	+3'
B36	P248	13683790.802	3276772.065	+3'
	P249	13683768.449	3276760.870	+1.5'
	P250	13683746.095	3276749.675	+3'
	P251	13683723.742	3276738.480	+1.5'
B37	P252	13683701.389	3276727.285	+3'
	P253	13683657.422	3276708.934	+3'
	P254	13683632.385	3276701.047	+1.5'
	P255	13683607.348	3276693.161	+3'
	P256	13683582.311	3276685.274	+1.5'
B38	P257	13683557.273	3276677.388	+3'
	P258	13683514.352	3276663.868	+3'
	P259	13683485.738	3276654.855	+1.5'
	P260	13683457.124	3276645.842	+3'
	P261	13683428.510	3276636.829	+1.5'
B39	P262	13683399.896	3276627.816	+3'
	P263	13683356.975	3276614.296	+3'
	P264	13683328.361	3276605.283	+1.5'
	P265	13683299.747	3276596.270	+3'
	P266	13683271.133	3276587.257	+1.5'
B40	P267	13683242.519	3276578.244	+3'
	P268	13683199.598	3276564.724	+3'
	P269	13683171.056	3276555.726	+1.5'
	P270	13683142.432	3276546.662	+3'
B41	P271	13683113.808	3276537.598	+1.5'
	P272	13683085.102	3276528.469	+3'
	P273	13683040.266	3276516.098	+3'
	P274	13683013.899	3276510.453	+1.5'
	P275	13682987.532	3276504.808	+3'
B42	P276	13682961.165	3276499.163	+1.5'
	P277	13682934.798	3276493.518	+3'
	P278	13682890.322	3276484.628	+3'
	P279	13682874.182	3276481.516	+1.5'
	P280	13682861.994	3276466.412	+3'
B43	P281	13682849.806	3276451.308	+1.5'
	P282	13682837.618	3276436.204	+3'
	P283	13682809.392	3276401.157	+3'
	P284	13682798.394	3276387.544	+1.5'
	P285	13682787.396	3276373.932	+3'
B44	P286	13682776.398	3276360.320	+1.5'
	P287	13682765.401	3276346.707	+3'
	P288	13682737.366	3276311.506	+3'
	P289	13682721.710	3276292.048	+1.5'
	P290	13682706.054	3276272.591	+3'
PROJECT SIGN #4 (FIELD ADJUST AS NECESSARY)	P291	13682690.398	3276253.133	+3'
	P292	13682672.868	3276255.586	+1.5'
	P293	13682655.338	3276258.039	+3'
		13682640.326	3276301.310	N/A

SEE DRAWING G105
MATCH LINE STA. 81+91

VIRGINIA
POINT

GALVESTON
BAY

SITE ACCESS BY BARGE

xxxx-G102

xxxx-G103

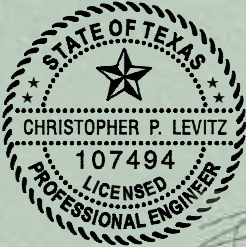
xxxx-G104

xxxx-G105

xxxx-G106



0 100 200
SCALE IN FEET



AECOM
FIRM REGISTRATION No. 3580

LEGEND:

A	BREAKWATER DESIGNATION		PROJECT SIGN
	EXISTING CONTOUR (CONTOUR INTERVAL = 1 FOOT)		
10+00	SURVEY BASELINE STATIONING		
	BREAKWATER "A" FOOTPRINT		
	BREAKWATER "B" FOOTPRINT		
	REVTMENT "R" FOOTPRINT		
	OYSTER REEFS		

GENERAL NOTES:

- SURVEY COMPLETED ON MARCH 10-11, 2013 BY NAISMITH MARINE SERVICES. HORIZONTAL DATUM IS NAD83, TEXAS SOUTH CENTRAL ZONE, US FEET. VERTICAL DATUM IS NAVD'88, US FEET.

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MHHW: 1.03' MHW: 0.96'
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- MAINTAIN A BUFFER DISTANCE OF 50 FEET FROM THE OYSTER REEFS AT ALL TIMES.

					6	AS-BUILTS	CL	9/19/16
					5	CHANGE ORDER #2 - PROJECT SIGNAGE	CL	7/15/16
					4	RE-ISSUE FOR BID	CL	10/26/15
					3	ISSUE FOR REVIEW	CL	9/25/15
					2	ISSUE FOR CONSTRUCTION	EL	8/4/14
					1	95 % DESIGN	EL	7/1/14
0	70 % DESIGN		EL	9/13/13				
REFERENCES	REV	DESCRIPTION	CHECKED BY	DATE	REV	DESCRIPTION	CHECKED BY	DATE

DRAWING SCALE 1" = 200'	
REFERENCE NAMES	DATE
DESIGNED BY: TN	8/4/14
DRAWN BY: NAB	8/4/14
CHECKED BY: CL	10/26/15
APPROVED BY: CL	10/26/15
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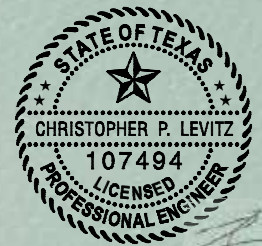
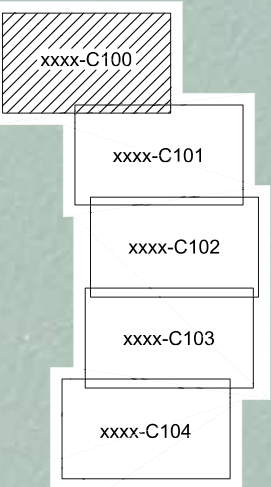
AECOM

GENERAL LAND OFFICE / SCENIC GALVESTON, INC.
VIRGINIA POINT WETLAND PROTECTION PROJECT
GALVESTON COUNTY, TEXAS

BREAKWATER COORDINATES
STA. 81+91 TO STA. 102+00

JOB NO.
60433394
REVISION
6
DRAWING NO.
1596-G106

C:\Projects\WTR\60433394_Virginia\Con\Draw\ACAD\2016_Je-Built\1596 - C100_C104 - Site Plan - Breakwater B and A1 - Revised.dwg Layout: C100 User: taylor.nordstrom Plotted: Sep 20, 2016 - 3:53pm



AECOM
FIRM REGISTRATION No. 3580

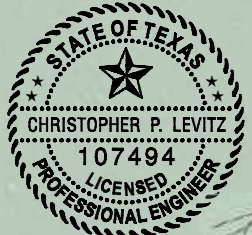
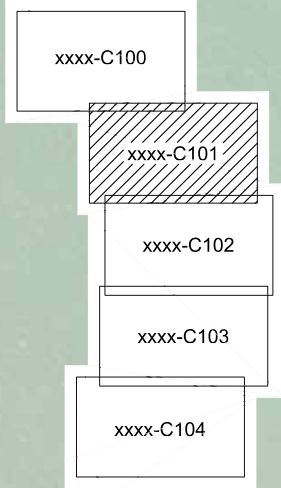
				7	AS-BUILTS	CL	9/19/16		
				6	ENGINEER'S SUPPLEMENTAL INSTRUCTIONS #2	CL	8/18/16		
				5	CHANGE ORDER #2 - PROJECT SIGNAGE	CL	7/15/16		
				4	RE-ISSUE FOR BID	CL	10/26/15		
	1	95 % DESIGN	EL	7/1/14	3	ISSUE FOR REVIEW	CL	9/25/15	
	0	70 % DESIGN	EL	9/13/13	2	ISSUE FOR CONSTRUCTION	EL	8/6/14	
REFERENCES	REV	DESCRIPTION	CHECKED BY	DATE	REV	DESCRIPTION	CHECKED BY	DATE	

DRAWING SCALE	1" = 200'
REFERENCE NAMES	DATE
DESIGNED BY:	TN 8/4/14
DRAWN BY:	NAB 8/4/14
CHECKED BY:	CL 10/26/15
APPROVED BY:	CL 10/26/15
FILE:	C:\PROJECTS\WTR\60433394_Virginia\Con\Draw\ACAD\2016_Je-Built\1596 - C100_C104 - SITE PLAN - BREAKWATER B AND A1 - REVISED.DWG



GENERAL LAND OFFICE / SCENIC GALVESTON, INC.		JOB NO.	60433394
VIRGINIA POINT WETLAND PROTECTION PROJECT		REVISION	7
GALVESTON COUNTY, TEXAS		DRAWING NO.	1596-C100
SITE PLAN - STA. 0+00 TO STA. 20+73			

File: C:\Projects\WTR\60433394_Virginia\Drawings\ACAD\2016_Je-Built\1596 - C100_C104 - Site Plan - Breakwater B and A1 - Revised.dwg Layout: C101 User: taylor.nordstrom Plotted: Sep 20, 2016 - 3:53pm



AECOM
FIRM REGISTRATION No. 3580

LEGEND:

- A** BREAKWATER DESIGNATION
-2- EXISTING CONTOUR (CONTOUR INTERVAL = 1 FOOT)
10+00 SURVEY BASELINE STATIONING
 BREAKWATER "A" FOOTPRINT
 BREAKWATER "B" FOOTPRINT
 BREAKWATER "R" FOOTPRINT
 OYSTER REEFS
 PROJECT SIGN

GENERAL NOTES:

1. SURVEY COMPLETED ON MARCH 10-11, 2013 BY NAISMITH MARINE SERVICES. HORIZONTAL DATUM IS NAD83, TEXAS SOUTH CENTRAL ZONE, US FEET. VERTICAL DATUM IS NAVD'88, US FEET.
- REFERENCE CONTROL MONUMENTS:
- '3200 L 5800'
NORTH: 13,691,249.77' EAST: 3,273,882.22'
ELEV: 7.33'
- '1488 C 2012'
NORTH: 13,680,977.18' EAST: 3,275,184.41'
ELEV: 11.93'
- MHHW: 1.03' MHW: 0.96'
MLW: -0.02' MLLW: -0.21'
2. BASE BID: BREAKWATERS 'A1' - 'A17' AND 'B1' - 'B44'
OPTIONAL ADDITIVE I: REVETMENT 'R1'
3. MAINTAIN A BUFFER DISTANCE OF 50 FEET FROM THE OYSTER REEFS AT ALL TIMES.

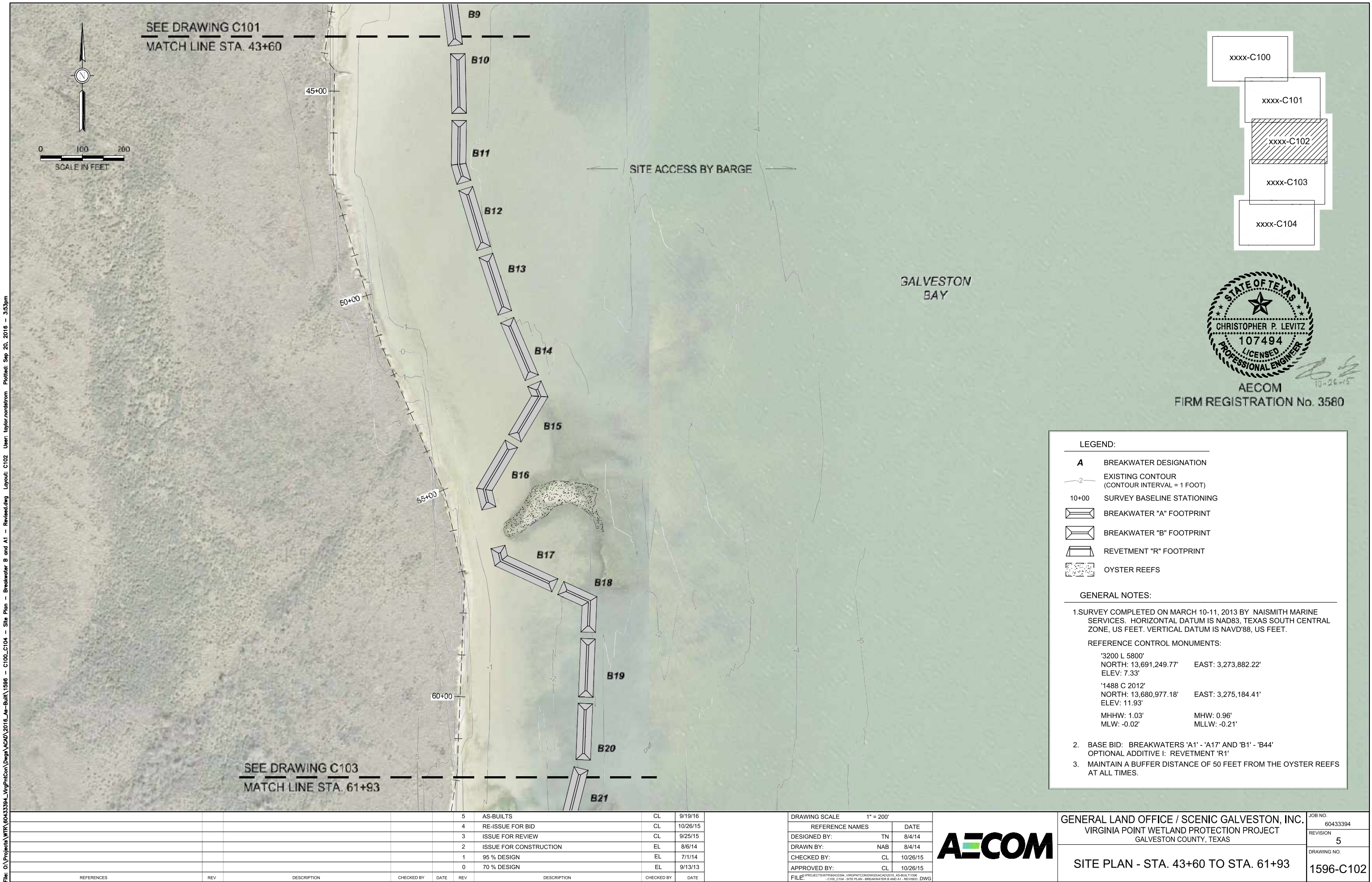
						8	AS-BUILTS	CL	9/19/16
						7	ENGINEER'S SUPPLEMENTAL INSTRUCTIONS #3	CL	9/6/16
						6	ENGINEER'S SUPPLEMENTAL INSTRUCTIONS #2	CL	8/18/16
	2	ISSUE FOR CONSTRUCTION	EL	8/6/14	5	CHANGE ORDER #2 - PROJECT SIGNAGE	CL	7/15/16	
	1	95 % DESIGN	EL	7/1/14	4	RE-ISSUE FOR BID	CL	10/26/15	
	0	70 % DESIGN	EL	9/13/13	3	ISSUE FOR REVIEW	CL	9/25/15	
REFERENCES	REV	DESCRIPTION	CHECKED BY	DATE	REV	DESCRIPTION	CHECKED BY	DATE	

DRAWING SCALE 1" = 200'	
REFERENCE NAMES	DATE
DESIGNED BY: TN	8/4/14
DRAWN BY: NAB	8/4/14
CHECKED BY: CL	10/26/15
APPROVED BY: CL	10/26/15
FILE: C:\PROJECTS\WTR\60433394_VIRGINIA\CONDO\BACAD\2016_AS-BUILT\1596 - C100_C104 - SITE PLAN - BREAKWATER B AND A1 - REVISED.DWG	

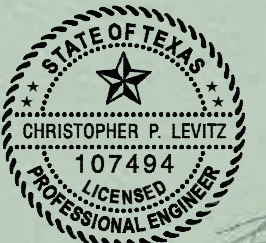
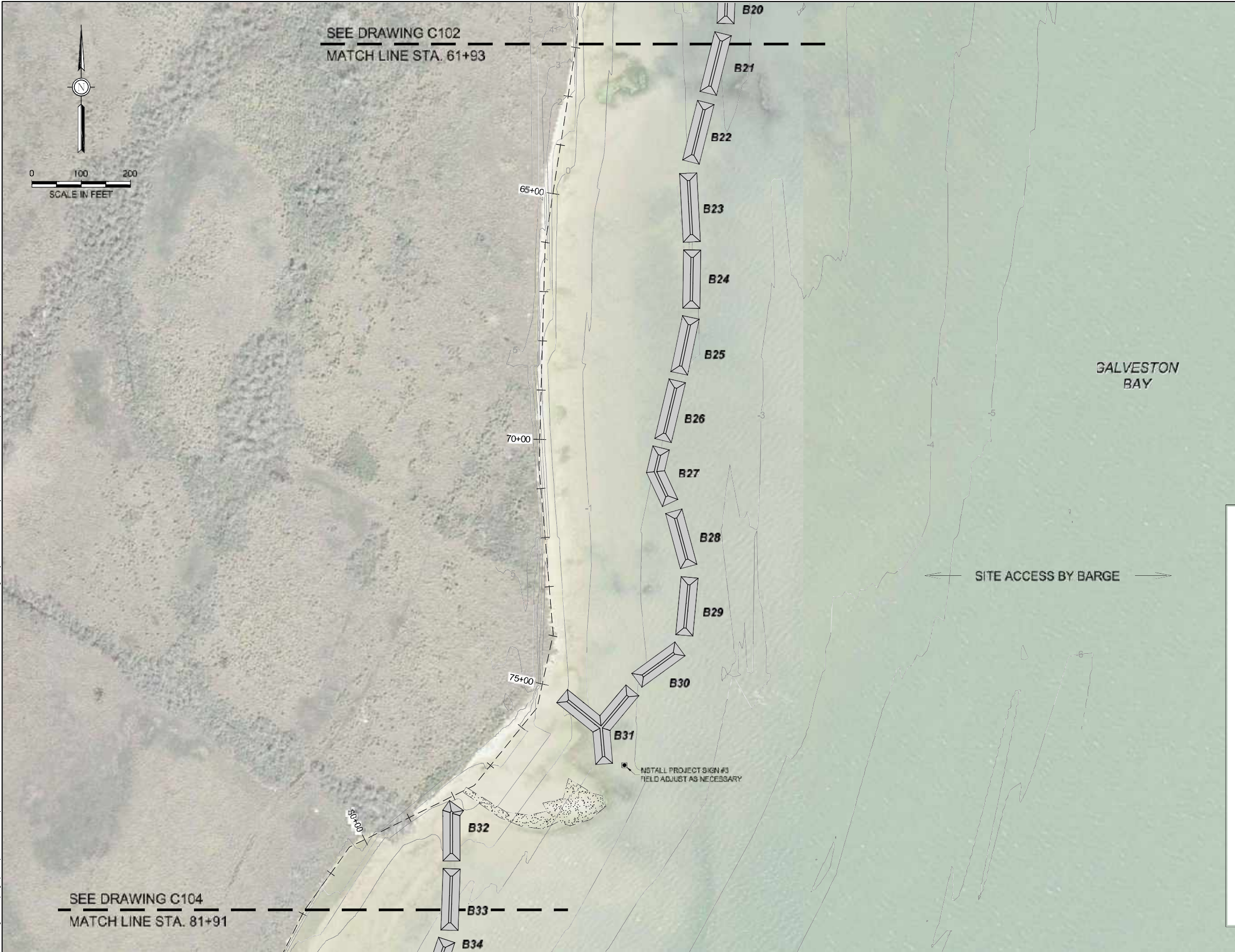


GENERAL LAND OFFICE / SCENIC GALVESTON, INC. VIRGINIA POINT WETLAND PROTECTION PROJECT GALVESTON COUNTY, TEXAS		JOB NO. 60433394
SITE PLAN - STA. 20+73 TO STA. 43+60		REVISION 8
		DRAWING NO. 1596-C101

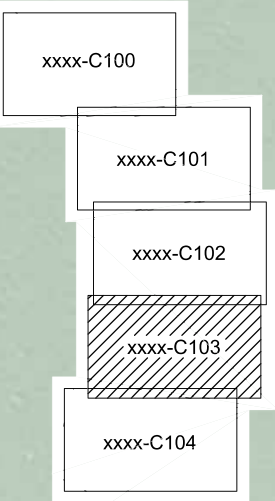
C:\Projects\WTR\60433394_VirginiaPoint\Drawings\ACAD\2016_Je-Built\1596 - C100_C104 - Site Plan - Breakwater B and A1 - Revised.dwg Layout: C102 User: taylor.nordstrom Plotted: Sep 20, 2016 - 3:53pm



File: C:\Projects\WTR\60433394_Virginia\Drawings\ACAD\2016_As-Built\1596 - C100_C104 - Site Plan - Breakwater B and A1 - Revised.dwg Layout: C103 User: taylor.nordstrom Plotted: Sep 20, 2016 - 3:53pm



AECOM
FIRM REGISTRATION No. 3580



LEGEND:

- A** BREAKWATER DESIGNATION
- EXISTING CONTOUR (CONTOUR INTERVAL = 1 FOOT)
- 10+00 SURVEY BASELINE STATIONING
- BREAKWATER "A" FOOTPRINT
- BREAKWATER "B" FOOTPRINT
- REVTMENT "R" FOOTPRINT
- OYSTER REEFS
- PROJECT SIGN

GENERAL NOTES:

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OPTIONAL ADDITIVE I: REVTMENT 'R1'
3. MAINTAIN A BUFFER DISTANCE OF 50 FEET FROM THE OYSTER REEFS AT ALL TIMES.

						6	AS-BUILTS	CL	9/19/16
						5	CHANGE ORDER #2 - PROJECT SIGNAGE	CL	7/15/16
						4	RE-ISSUE FOR BID	CL	10/26/15
						3	ISSUE FOR REVIEW	CL	9/25/15
						2	ISSUE FOR CONSTRUCTION	EL	8/6/14
						1	95 % DESIGN	EL	7/1/14
	0	70 % DESIGN		EL	9/13/13				
REFERENCES	REV	DESCRIPTION	CHECKED BY	DATE	REV	DESCRIPTION	CHECKED BY	DATE	

DRAWING SCALE	1" = 200'
REFERENCE NAMES	DATE
DESIGNED BY:	TN 8/4/14
DRAWN BY:	NAB 8/4/14
CHECKED BY:	CL 10/26/15
APPROVED BY:	CL 10/26/15
FILE:	C:\PROJECTS\WTR\60433394_Virginia\Drawings\ACAD\2016_As-Built\1596 - C100_C104 - SITE PLAN - BREAKWATER B AND A1 - REVISED.DWG



GENERAL LAND OFFICE / SCENIC GALVESTON, INC.
VIRGINIA POINT WETLAND PROTECTION PROJECT
GALVESTON COUNTY, TEXAS

SITE PLAN - STA. 61+93 TO STA. 81+91

JOB NO.	60433394
REVISION	6
DRAWING NO.	1596-C103

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