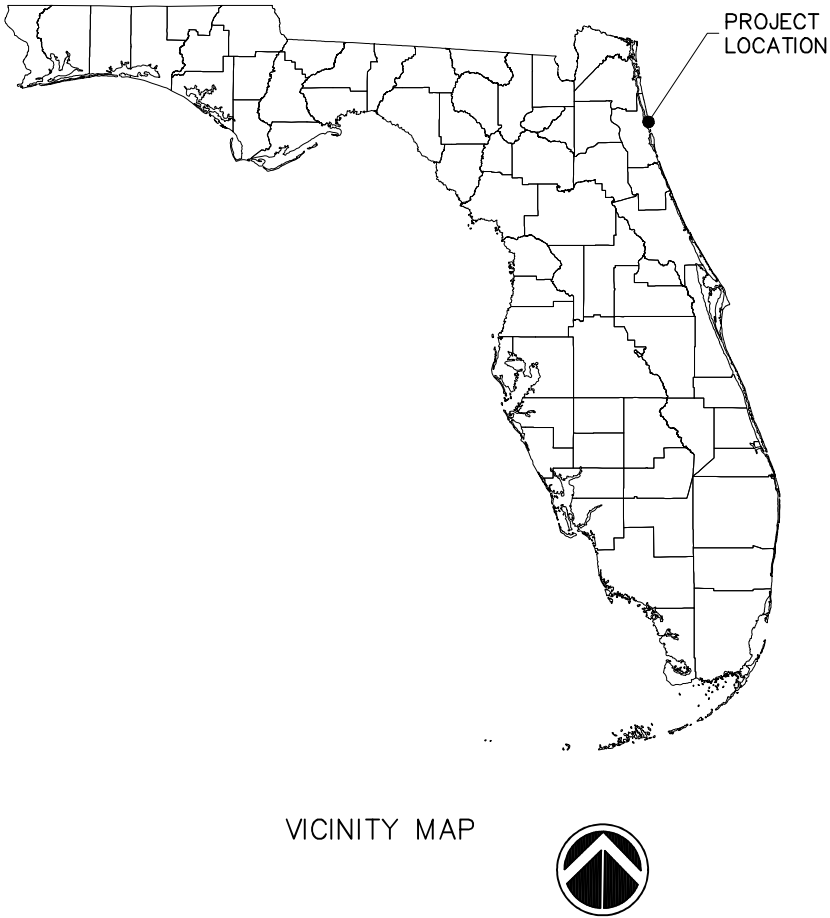


SOUTH PONTE VEDRA BEACH DUNE RESTORATION

CONSTRUCTION DRAWINGS

ST. JOHNS COUNTY, FL



PROJECT LOCATION MAP

NOTICE

THE INFORMATION IN THIS DOCUMENT WAS PREPARED BY ATKINS. WHILE ATKINS HAS TAKEN ALL REASONABLE STEPS TO ASSURE THE ACCURACY OF THE INFORMATION CONTAINED IN THIS DOCUMENT, IT CANNOT GUARANTEE THAT CHANGES OR ALTERATIONS TO THIS DOCUMENT WILL NOT BE MADE BY PERSONS OTHER THAN ATKINS PERSONNEL AFTER THE DOCUMENT LEAVES THE POSSESSION OF ATKINS. CHANGES OR ALTERATIONS MAY BE SAFETY RELATED AND RESULT IN DAMAGE TO PROPERTY, PERSONAL INJURY OR DEATH. IF VERIFICATION OF THE INFORMATION CONTAINED IN THIS DOCUMENT IS NEEDED, CONTACT SHOULD BE MADE DIRECTLY WITH ATKINS.

THIS DOCUMENT MUST BE COMPARED TO THE ORIGINAL HARD COPY, WITH CERTIFIED RAISED SEAL IF APPLICABLE, IN ORDER TO INSURE THE ACCURACY OF THE INFORMATION CONTAINED THEREIN AND TO FURTHER INSURE THAT NO CHANGES, ALTERATIONS OR MODIFICATIONS HAVE BEEN MADE TO THE DOCUMENT. NO RELIANCE SHOULD EVER BE MADE ON A DOCUMENT TRANSMITTED OR REVIEWED BY COMPUTER OR OTHER ELECTRONIC MEANS UNLESS IT IS FIRST COMPARED TO THE ORIGINAL ATKINS MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY OF THE INFORMATION CONTAINED IN ANY DOCUMENT TRANSMITTED OR REVIEWED BY COMPUTER OR OTHER ELECTRONIC MEANS.

SURVEYOR

GAHAGAN & BRYANT ASSOCIATES, INC.
3802 WEST BAY TO BAY BLVD
SUITE B-22, TAMPA, FL 33629
GBA-INC.COM
LICENSE #: LB7959

ATKINS

4030 BOY SCOUT BOULEVARD SUITE 700
TAMPA, FL 33607
FBPR CERTIFICATE OF AUTHORIZATION NO. 24
LOCAL OFFICE:
8375 DIX ELLIS TRAIL, SUITE 102,
JACKSONVILLE, FL 32256
TEL: (904) 363-6100

ENGINEER

ATKINS
JUSTIN BARTUSEK, PE
LICENSE #: FL 88808

**THIS DOCUMENT SUPERSEDES
THE PREVIOUS DRAWINGS SIGNED
ON OCTOBER 25, 2021.**

February 2022

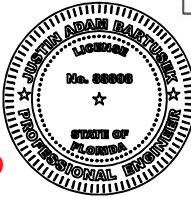
SHEET INDEX

SHEET NUMBERS	SHEET TITLE
G-100	GENERAL NOTES
G-101	BEACH NOURISHMENT SITE
G-102	NEARSHORE CONDITIONS
G-103 TO G-104	PIPELINE CORRIDORS
C-101 TO C-111	BEACH PLACEMENT PLAN
C-112	TYPICAL BEACH TEMPLATE PROFILE
C-113	LANDWARD DUNE TIE-IN SCENARIOS
C-114 TO C-123	BEACH PROFILES
C-124	BORROW AREA SITE PLAN
C-125	BORROW AREA CROSS SECTIONS
C-126	BORROW AREA PROFILES
C-127	UPLAND STAGING AREAS
C-128 TO C-129	DUNE PLANTING PLAN



ST. JOHNS COUNTY
500 SAN SEBASTIAN VIEW
ST. AUGUSTINE, FL 32084
(904) 209-0260

This item has been electronically signed and sealed by
Justin A. Bartusek on the date adjacent to the seal using a
SHA authentication code. Printed copies of this document are
not considered signed and sealed and the SHA authentication
code must be verified on any electronic copies.



**Justin A.
Bartusek**

Digitally signed by Justin A. Bartusek
DN: C=US, OU=TPO, O=Atkins,
CN=Justin A. Bartusek,
E=Justin.Bartusek@AtkinsGlobal.co
m
Reason: I am the author of this
document
Location: your signing location here
Date: 2022.03.22 10:03:11-04'00'
Exit PDF Editor Version: 11.2.1

ENGINEER OF RECORD: JUSTIN A. BARTUSEK P.E.
PROFESSIONAL ENGINEERING NO.: FL 88808 P.E.

PROJECT NUMBER: 100075997

9

8

7

6

5

4

3

2

1

GENERAL NOTES:

1. CONTRACTOR TO PLACE UP TO 778,206 CY OF MATERIAL REMOVED FROM BORROW AREA N-3 WITHIN THE LINES AND GRADES INDICATED ON THESE PLANS.

2. DUNE RESTORATION FOR THIS PROJECT INCLUDES A SINGLE REACH EXTENDING FROM FDEP RANGE MONUMENT R-76 TO R-103.5

3. LAND FEATURES INDICATED IN THIS PLAN SET ARE FOR INFORMATION PURPOSES ONLY AND WERE NOT PHYSICALLY LOCATED BY SURVEY UNLESS OTHERWISE INDICATED.

4. AERIAL IMAGERY COLLECTED IN FEB 2021 AND PROVIDED BY ST. JOHNS COUNTY.

5. THE SPATIAL COORDINATES SHOWN ARE IN US SURVEY FEET AND REFERENCE THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE (0901) AND ARE REFERENCED TO THE 2011 ADJUSTMENT OF THE NORTH AMERICAN DATUM OF 1983 (NAD83 (2011)).

6. DESIGN ELEVATIONS ARE IN US SURVEY FEET AND REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). ALL ELEVATIONS SHOWN ABOVE THE REFERENCED DATUM ARE ASSIGNED NO SYMBOL. ELEVATIONS BELOW THE REFERENCED DATUM ARE ASSIGNED A MINUS (-) SYMBOL.

7. DUNE AND BERM WIDTHS ARE MEASURED ALONG ESTABLISHED AZIMUTHS OF FDEP'S RANGE MONUMENTS. POSITIVE VALUES INDICATE SEAWARD DISTANCE.

8. PROPERTY LINES SHOWN ON THESE PLANS ARE APPROXIMATE. THIS PLAN SET IS NOT INTENDED TO BE A PROPERTY LINE SURVEY.

9. SEAWALLS AND OTHER EXISTING STRUCTURES ARE LOCATED ALONG THE UPLAND SIDE OF SOME BEACH FILL AREAS. THE CONTRACTOR SHALL VERIFY THEIR LOCATION, CONDITION, AND TAKE THE NECESSARY PRECAUTIONS NOT TO DAMAGE OR FILL OVER THEM, EXCEPT AS DIRECTED BY THE COUNTY.

10. PORTIONS OF THE BEACH FILL PLACEMENT AREA ARE WITHIN THE GUANA RIVER MARSH AQUATIC PRESERVE, OUTSTANDING FLORIDA WATERS. SEE TURBIDITY SPECIFICATION 01 57 25 FOR MIXING ZONE REQUIREMENTS WITHIN THIS AREA.

11. WHILE THE DUNE IS INTENDED TO HAVE A UNIFORM WIDTH OF 15 FEET, SOME VARIATION MAY OCCUR IN TRANSITION AREAS WHERE THE DUNE TIE-IN CHANGES IN ORDER TO MAINTAIN A RELATIVELY CONSISTENT SEAWARD EDGE OF DUNE.

12. SEAWALL LOCATIONS BASED ON APRIL 2019 LIDAR DATA COLLECTED AND DELINEATED BY DIGITAL AERIAL SOLUTIONS LLC .

13. VOLUMES STATED ARE APPROXIMATE AND REPRESENT CONDITIONS AT THE TIME THE SURVEY WAS COLLECTED (SEE SURVEY NOTE 1). FILL VOLUMES ARE SUBJECT TO THE VARIATION IN ESTIMATED QUANTITIES CLAUSE DESCRIBED IN SECTION 01 22 00 MEASUREMENT AND PAYMENT OF THE SPECIFICATIONS.

14. LANDWARD TIE-IN SHOWN IS APPROXIMATE AND MAY BE ADJUSTED SLIGHTLY BASED ON THE BEFORE DREDGE BEACH SURVEY.

15. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ANY POSSIBLE UTILITY LOCATIONS IN THE BEACH FILL AREA USING THE SUNSHINE 811 PROGRAM.

SURVEY NOTES:

1. BEACH FILL AND BORROW AREA SURVEYS WERE PERFORMED BY GAHAGAN & BRYANT ASSOCIATES BETWEEN JULY 12 AND JULY 13, 2021. ADDITIONAL BEACH FILL SURVEYS WERE PERFORMED BY GAHAGAN & BRYANT ASSOCIATES BETWEEN DECEMBER 2 AND DECEMBER 4, 2021.

2. SURVEYS WERE CONDUCTED TO MEET OR EXCEED USACE SURVEY STANDARDS ESTABLISHED BY THE EM 1110-2-1003.

3. ALL SURVEY DATA IS IN US SURVEY FEET AND HORIZONTALLY REFERENCED TO THE US STATE PLANE FLORIDA EAST ZONE, NAD83.

4. ALL SURVEY ELEVATIONS IN FEET ARE VERTICALLY REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

5. THE BEACH FILL SURVEY INCLUDES PROFILES OF RANGE MONUMENTS BEGINNING 500 FEET NORTH OF R-76 AND CONTINUES SOUTH EVERY 500 FEET THROUGH R-104.

6. BEACH PROFILE SURVEY DATA WAS COLLECTED USING TOPOGRAPHIC AND HYDROGRAPHIC METHODS.

7. THE BORROW AREA SURVEY WAS COMPLETED USING A MULTIBEAM TRANSDUCER OPERATING AT OR ABOVE 200 kHz, WITH DATA CORRECTED FOR ROLL, PITCH, HEAVE, AND TIDE.

8. NAVIGATION AND POSITIONING FOR ALL SURVEYS WAS ACCOMPLISHED USING A REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS).

9. INFORMATION SHOWN THROUGH THE SURVEYS REPRESENTS THE CONDITIONS EXISTING ON THE DATES THE DATA WAS COLLECTED.

10. THE ECL SHOWN IN THESE DRAWINGS REPRESENTS THE RESULTS OF A SURVEY PERFORMED BY MORGAN & ECKLUND, INC. ON OCTOBER 13-15, 2020. THE ECL REPRESENTS A MHW ELEVATION OF 1.78 FT-NAVD88 FROM R-75 TO R-87 AND 1.72 FT-NAVD88 FROM R-087 TO SOUTH OF R-102 AT THE TIME OF THE SURVEY.

GEOTECHNICAL NOTES:

1. GEOTECHNICAL VIBRACORES WERE PERFORMED BY USACE IN 2009 AND 2015 WITHIN BORROW AREA N-3 .

2. NATIVE BEACH GEOTECHNICAL SAMPLES WERE TESTED BY SCIENTIFIC ENVIRONMENTAL APPLICATIONS, INC. (S.E.A) IN 2008.

3. FURTHER DETAILS OF GEOTECHNICAL FINDINGS AND FILL REQUIREMENTS CAN BE FOUND WITHIN THE SUPPLEMENTAL DOCUMENTS TITLED “SOUTH PONTE VEDRA BEACH OFFSHORE BORROW AREA DESIGN REPORT” AND THE “SEDIMENT QUALITY ASSURANCE/QUALITY CONTROL PLAN”.

DATUM REFERENCE:

+1.72
NAVD88

MHW

						MIN (-0.75 FT)	DESIGN	
MONUMENT	EASTING	NORTHING	AZIMUTH (DEGREES)	CBL STATION	DISTANCE BETWEEN LINES (FT)	AVAILABLE FILL (CY)	AVAILABLE FILL (CY)	VOLUME PER DISTANCE (CY/LF)
R-76	552,333.33	2,075,761.23	75.0	00+023				
R-76.5	552,438.94	2,075,239.39	75.0	00+555	532	1,699	3,868	7.3
R-77	552,544.79	2,074,717.61	75.0	01+087	532	2,376	4,764	9.0
R-77.5	552,646.97	2,074,195.57	75.0	01+619	532	2,946	5,665	10.6
R-78	552,749.39	2,073,673.59	75.0	02+151	532	3,315	6,450	12.1
R-78.5	552,867.99	2,073,130.49	75.0	02+707	556	5,409	8,851	15.9
R-79	552,986.84	2,072,587.46	75.0	03+263	556	6,832	10,408	18.7
R-79.5	553,104.15	2,072,088.42	75.0	03+776	513	8,842	12,212	23.8
R-80	553,221.69	2,071,589.43	75.0	04+289	513	7,882	10,986	21.4
R-80.5	553,336.44	2,071,046.76	75.0	04+844	555	8,679	11,967	21.6
R-81	553,451.43	2,070,504.14	75.0	05+399	555	12,916	16,480	29.7
R-81.5	553,569.18	2,070,007.80	75.0	05+909	510	12,980	16,260	31.9
R-82	553,687.17	2,069,511.51	75.0	06+419	510	12,051	15,190	29.8
R-82.5	553,777.97	2,068,985.46	75.0	06+953	534	12,878	16,170	30.3
R-83	553,869.00	2,068,459.47	75.0	07+487	534	8,080	10,236	19.2
R-83.5	553,994.40	2,067,928.11	75.0	08+033	546	1,328	2,582	4.7
R-84	554,120.03	2,067,396.82	75.0	08+579	546	3,907	6,113	11.2
R-84.5	554,237.91	2,066,888.02	75.0	09+101	522	7,322	10,137	19.4
R-85	554,356.02	2,066,379.28	75.0	09+623	522	11,066	14,101	27.0
R-85.5	554,456.19	2,065,878.29	75.0	10+134	511	15,563	18,750	36.7
R-86	554,556.60	2,065,377.36	75.0	10+645	511	16,692	19,939	39.0
R-86.5	554,687.87	2,064,866.39	75.0	11+173	528	15,025	18,211	34.5
R-87	554,819.38	2,064,355.48	75.0	11+701	528	13,656	16,564	31.4
R-87.5	554,930.59	2,063,845.11	75.0	12+223	522	15,061	17,929	34.3
R-88	555,042.04	2,063,334.80	75.0	12+745	522	19,338	22,393	42.9
R-88.5	555,137.77	2,062,866.48	75.0	13+223	478	18,776	21,592	45.2
R-89	555,233.72	2,062,398.22	75.0	13+701	478	22,651	25,577	53.5
R-89.5	555,353.06	2,061,897.91	75.0	14+215	514	27,996	31,155	60.6
R-90	555,472.63	2,061,397.66	75.0	14+729	514	27,067	30,200	58.8
R-90.5	555,568.48	2,060,883.29	75.0	15+252	523	25,461	28,708	54.9
R-91	555,664.56	2,060,368.98	75.0	15+775	523	16,896	19,852	38.0
R-91.5	555,770.25	2,059,851.25	75.0	16+303	528	12,263	15,136	28.7
R-92	555,876.17	2,059,333.59	75.0	16+831	528	12,454	15,492	29.3
R-92.5	555,994.03	2,058,847.27	75.0	17+331	500	14,438	17,520	35.0
R-93	556,112.12	2,058,361.01	75.0	17+831	500	16,060	19,161	38.3
R-93.5	556,206.67	2,057,858.33	75.0	18+342	511	15,755	18,861	36.9
R-94	556,301.45	2,057,355.72	75.0	18+853	511	15,896	19,208	37.6
R-94.5	556,398.56	2,056,869.54	75.0	19+349	496	11,852	14,977	30.2
R-95	556,495.90	2,056,383.43	75.0	19+845	496	12,471	15,449	31.1
R-95.5	556,627.85	2,055,878.88	75.0	20+367	522	16,545	19,703	37.7
R-96	556,760.02	2,055,374.38	75.0	20+889	522	15,226	18,300	35.1
R-96.5	556,881.10	2,054,876.35	75.0	21+402	513	15,104	18,145	35.4
R-97	557,002.40	2,054,378.39	75.0	21+915	513	14,990	18,046	35.2
R-97.5	557,101.13	2,053,880.42	75.0	22+423	508	8,866	11,633	22.9
R-98	557,200.08	2,053,382.52	75.0	22+931	508	7,720	10,347	20.4
R-98.5	557,312.44	2,052,868.73	75.0	23+457	526	8,881	11,573	22.0
R-99	557,425.03	2,052,355.00	75.0	23+983	526	5,202	7,812	14.9
R-99.5	557,543.38	2,051,847.55	75.0	24+504	521	3,967	6,644	12.8
R-100	557,661.96	2,051,340.16	75.0	25+025	521	4,613	7,313	14.0
R-100.5	557,770.74	2,050,832.38	75.0	25+544	519	5,980	8,767	16.9
R-101	557,879.74	2,050,324.66	75.0	26+063	519	5,593	8,591	16.6
R-101.5	557,991.46	2,049,836.78	75.0	26+564	501	4,794	7,671	15.3
R-102	558,103.42	2,049,348.97	75.0	27+064	500	6,221	9,112	18.2
R-102.5	558,212.55	2,048,865.19	75.0	27+560	496	6,459	9,458	19.1
R-103	558,321.91	2,048,381.47	75.0	28+056	496	4,598	7,191	14.5
R-103.5	558,439.68	2,047,900.72	75.0	28+551	495	4,078	6,183	12.5
Total						614,710	775,602	

9

8

7

6

5

4

3

CONSTRUCTION DRAWINGS

GENERAL NOTES:

1. CONTRACTOR TO PLACE UP TO 778,206 CY OF MATERIAL REMOVED FROM BORROW AREA N-3 WITHIN THE LINES AND GRADES INDICATED ON THESE PLANS.

2. DUNE RESTORATION FOR THIS PROJECT INCLUDES A SINGLE REACH EXTENDING FROM FDEP RANGE MONUMENT R-76 TO R-103.5

3. LAND FEATURES INDICATED IN THIS PLAN SET ARE FOR INFORMATION PURPOSES ONLY AND WERE NOT PHYSICALLY LOCATED BY SURVEY UNLESS OTHERWISE INDICATED.

4. AERIAL IMAGERY COLLECTED IN FEB 2021 AND PROVIDED BY ST. JOHNS COUNTY.

5. THE SPATIAL COORDINATES SHOWN ARE IN US SURVEY FEET AND REFERENCE THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE (0901) AND ARE REFERENCED TO THE 2011 ADJUSTMENT OF THE NORTH AMERICAN DATUM OF 1983 (NAD83 (2011)).

6. DESIGN ELEVATIONS ARE IN US SURVEY FEET AND REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). ALL ELEVATIONS SHOWN ABOVE THE REFERENCED DATUM ARE ASSIGNED NO SYMBOL. ELEVATIONS BELOW THE REFERENCED DATUM ARE ASSIGNED A MINUS (-) SYMBOL.

7. DUNE AND BERM WIDTHS ARE MEASURED ALONG ESTABLISHED AZIMUTHS OF FDEP'S RANGE MONUMENTS. POSITIVE VALUES INDICATE SEAWARD DISTANCE.

8. PROPERTY LINES SHOWN ON THESE PLANS ARE APPROXIMATE. THIS PLAN SET IS NOT INTENDED TO BE A PROPERTY LINE SURVEY.

9. SEAWALLS AND OTHER EXISTING STRUCTURES ARE LOCATED ALONG THE UPLAND SIDE OF SOME BEACH FILL AREAS. THE CONTRACTOR SHALL VERIFY THEIR LOCATION, CONDITION, AND TAKE THE NECESSARY PRECAUTIONS NOT TO DAMAGE OR FILL OVER THEM, EXCEPT AS DIRECTED BY THE COUNTY.

10. PORTIONS OF THE BEACH FILL PLACEMENT AREA ARE WITHIN THE GUANA RIVER MARSH AQUATIC PRESERVE, OUTSTANDING FLORIDA WATERS. SEE TURBIDITY SPECIFICATION 01 57 25 FOR MIXING ZONE REQUIREMENTS WITHIN THIS AREA.

11. WHILE THE DUNE IS INTENDED TO HAVE A UNIFORM WIDTH OF 15 FEET, SOME VARIATION MAY OCCUR IN TRANSITION AREAS WHERE THE DUNE TIE-IN CHANGES IN ORDER TO MAINTAIN A RELATIVELY CONSISTENT SEAWARD EDGE OF DUNE.

12. SEAWALL LOCATIONS BASED ON APRIL 2019 LIDAR DATA COLLECTED AND DELINEATED BY DIGITAL AERIAL SOLUTIONS LLC .

13. VOLUMES STATED ARE APPROXIMATE AND REPRESENT CONDITIONS AT THE TIME THE SURVEY WAS COLLECTED (SEE SURVEY NOTE 1). FILL VOLUMES ARE SUBJECT TO THE VARIATION IN ESTIMATED QUANTITIES CLAUSE DESCRIBED IN SECTION 01 22 00 MEASUREMENT AND PAYMENT OF THE SPECIFICATIONS.

14. LANDWARD TIE-IN SHOWN IS APPROXIMATE AND MAY BE ADJUSTED SLIGHTLY BASED ON THE BEFORE DREDGE BEACH SURVEY.

15. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ANY POSSIBLE UTILITY LOCATIONS IN THE BEACH FILL AREA USING THE SUNSHINE 811 PROGRAM.

SURVEY NOTES:

1. BEACH FILL AND BORROW AREA SURVEYS WERE PERFORMED BY GAHAGAN & BRYANT ASSOCIATES BETWEEN JULY 12 AND JULY 13, 2021. ADDITIONAL BEACH FILL SURVEYS WERE PERFORMED BY GAHAGAN & BRYANT ASSOCIATES BETWEEN DECEMBER 2 AND DECEMBER 4, 2021.

2. SURVEYS WERE CONDUCTED TO MEET OR EXCEED USACE SURVEY STANDARDS ESTABLISHED BY THE EM 1110-2-1003.

3. ALL SURVEY DATA IS IN US SURVEY FEET AND HORIZONTALLY REFERENCED TO THE US STATE PLANE FLORIDA EAST ZONE, NAD83.

4. ALL SURVEY ELEVATIONS IN FEET ARE VERTICALLY REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

5. THE BEACH FILL SURVEY INCLUDES PROFILES OF RANGE MONUMENTS BEGINNING 500 FEET NORTH OF R-76 AND CONTINUES SOUTH EVERY 500 FEET THROUGH R-104.

6. BEACH PROFILE SURVEY DATA WAS COLLECTED USING TOPOGRAPHIC AND HYDROGRAPHIC METHODS.

7. THE BORROW AREA SURVEY WAS COMPLETED USING A MULTIBEAM TRANSDUCER OPERATING AT OR ABOVE 200 kHz, WITH DATA CORRECTED FOR ROLL, PITCH, HEAVE, AND TIDE.

8. NAVIGATION AND POSITIONING FOR ALL SURVEYS WAS ACCOMPLISHED USING A REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS).

9. INFORMATION SHOWN THROUGH THE SURVEYS REPRESENTS THE CONDITIONS EXISTING ON THE DATES THE DATA WAS COLLECTED.

10. THE ECL SHOWN IN THESE DRAWINGS REPRESENTS THE RESULTS OF A SURVEY PERFORMED BY MORGAN & ECKLUND, INC. ON OCTOBER 13-15, 2020. THE ECL REPRESENTS A MHW ELEVATION OF 1.78 FT-NAVD88 FROM R-75 TO R-87 AND 1.72 FT-NAVD88 FROM R-087 TO SOUTH OF R-102 AT THE TIME OF THE SURVEY.

GEOTECHNICAL NOTES:

1. GEOTECHNICAL VIBRACORES WERE PERFORMED BY USACE IN 2009 AND 2015 WITHIN BORROW AREA N-3 .

2. NATIVE BEACH GEOTECHNICAL SAMPLES WERE TESTED BY SCIENTIFIC ENVIRONMENTAL APPLICATIONS, INC. (S.E.A) IN 2008.

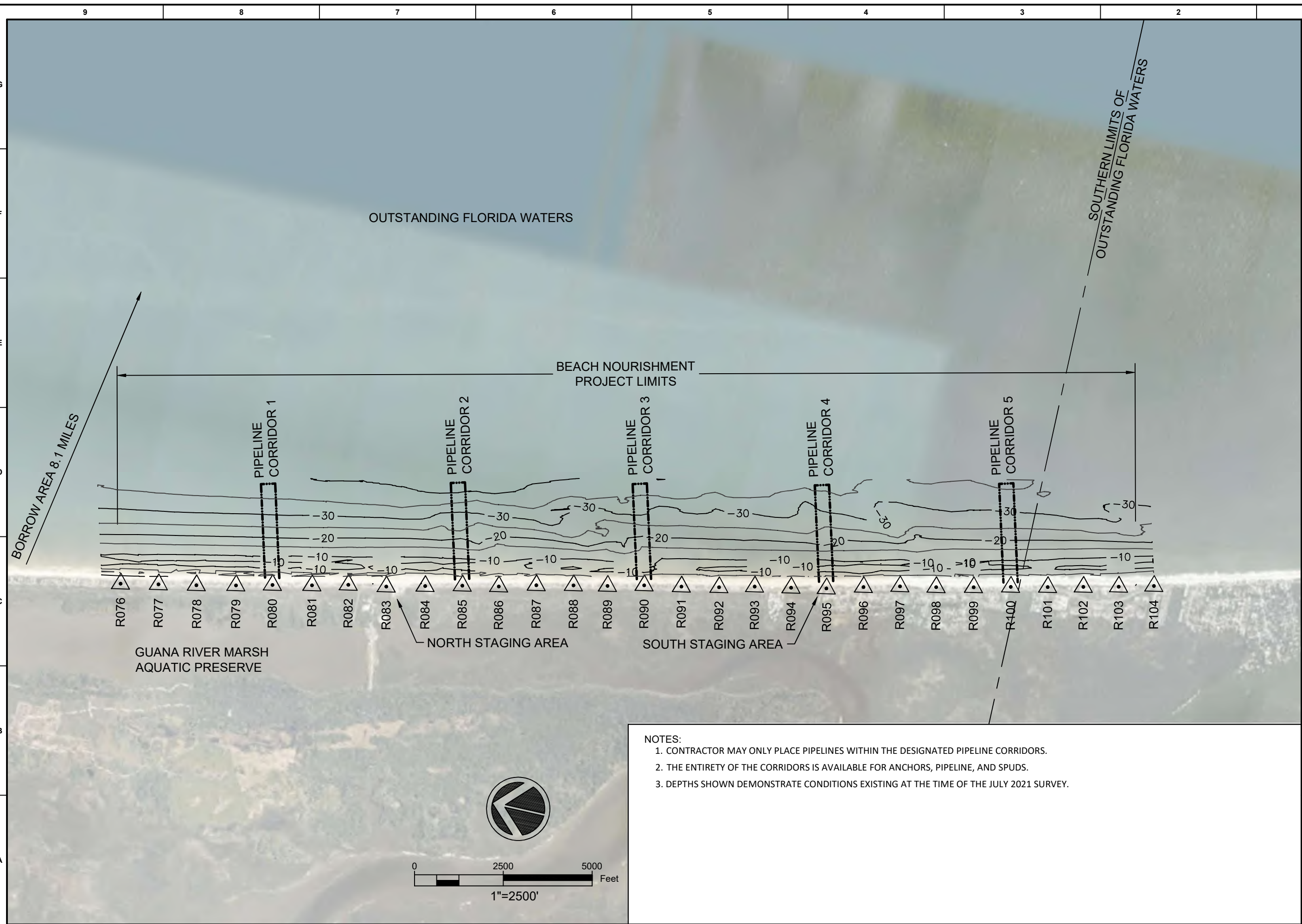
3. FURTHER DETAILS OF GEOTECHNICAL FINDINGS AND FILL REQUIREMENTS CAN BE FOUND WITHIN THE SUPPLEMENTAL DOCUMENTS TITLED “SOUTH PONTE VEDRA BEACH OFFSHORE BORROW AREA DESIGN REPORT” AND THE “SEDIMENT QUALITY ASSURANCE/QUALITY CONTROL PLAN”.

DATUM REFERENCE:

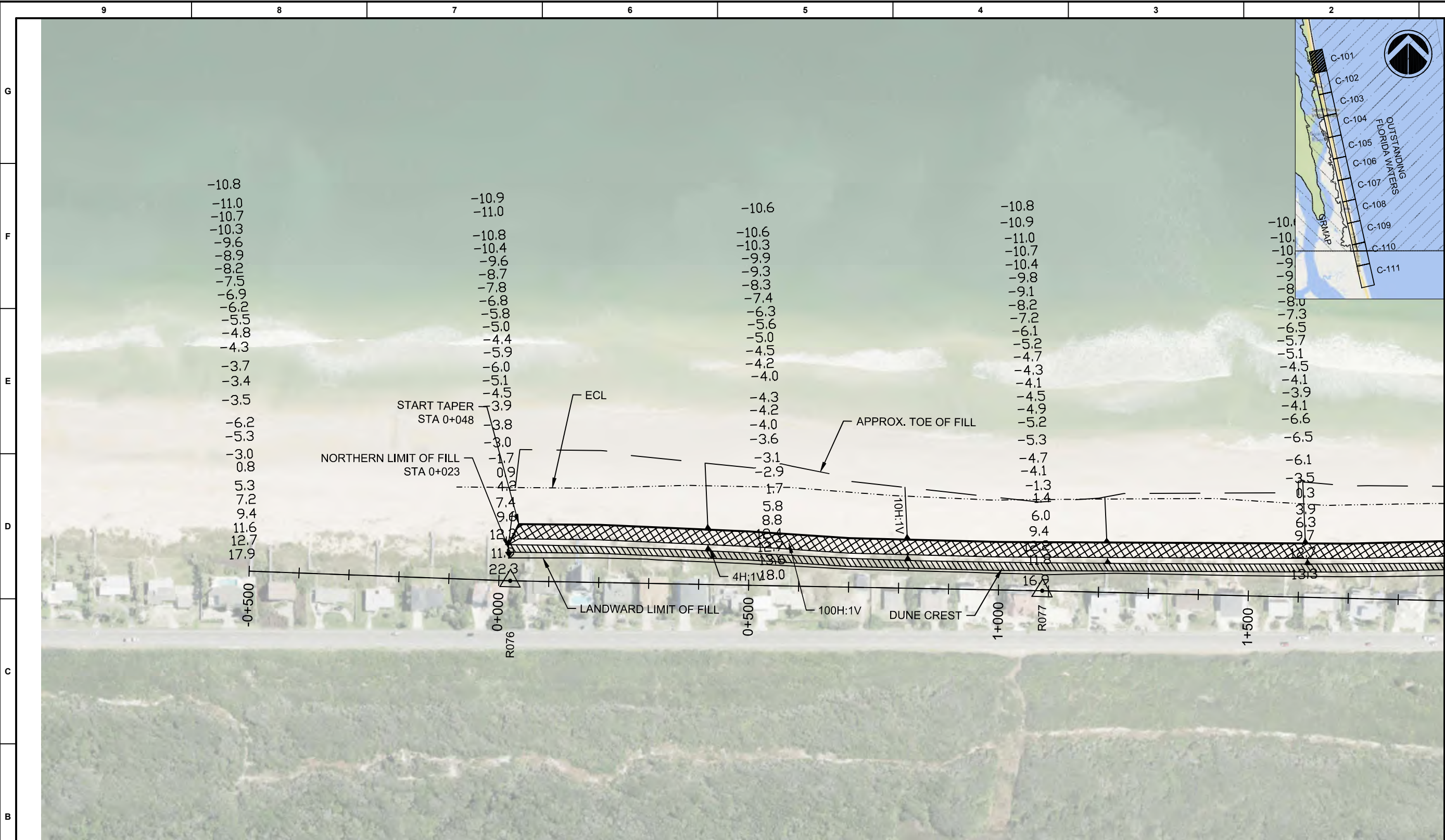
+1.72
NAVD88

MHW

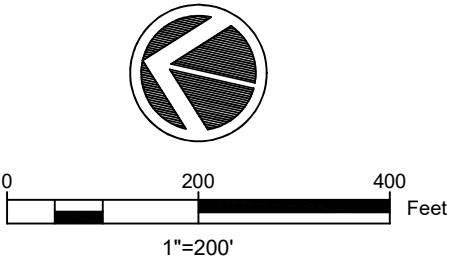
					MIN (-0.75 FT)	DESIGN		
MONUMENT	EASTING	NORTHING	AZIMUTH (DEGREES)	CBL STATION	DISTANCE BETWEEN LINES (FT)	AVAILABLE FILL (CY)	AVAILABLE FILL (CY)	VOLUME PER DISTANCE (CY/LF)
R-76	552,333.33	2,075,761.23	75.0	00+023				
R-76.5	552,438.94	2,075,239.39	75.0	00+555	532	1,699	3,868	7.3
R-77	552,544.79	2,074,717.61	75.0	01+087	532	2,376	4,764	9.0
R-77.5	552,646.97	2,074,195.57	75.0	01+619	532	2,946	5,665	10.6
R-78	552,749.39	2,073,673.59	75.0	02+151	532	3,315	6,450	12.1
R-78.5	552,867.99	2,073,130.49	75.0	02+707	556	5,409	8,851	15.9
R-79	552,986.84	2,072,587.46	75.0	03+263	556	6,832	10,408	18.7
R-79.5	553,104.15	2,072,088.42	75.0	03+776	513	8,842	12,212	23.8
R-80	553,221.69	2,071,589.43	75.0	04+289	513	7,882	10,986	21.4
R-80.5	553,336.44	2,071,046.76	75.0	04+844	555	8,679	11,967	21.6
R-81	553,451.43	2,070,504.14	75.0	05+399	555	12,916	16,480	29.7
R-81.5	553,569.18	2,070,007.80	75.0	05+909	510	12,980	16,260	31.9
R-82	553,687.17	2,069,511.51	75.0	06+419	510	12,051	15,190	29.8
R-82.5	553,777.97	2,068,985.46	75.0	06+953	534	12,878	16,170	30.3
R-83	553,869.00	2,068,459.47	75.0	07+487	534	8,080	10,236	19.2
R-83.5	553,994.40	2,067,928.11	75.0	08+033	546	1,328	2,582	4.7
R-84	554,120.03	2,067,396.82	75.0	08+579	546	3,907	6,113	11.2
R-84.5	554,237.91	2,066,888.02	75.0	09+101	522	7,322	10,137	19.4
R-85	554,356.02	2,066,379.28	75.0	09+623	522	11,066	14,101	27.0
R-85.5	554,456.19	2,065,878.29	75.0	10+134	511	15,563	18,750	36.7
R-86	554,556.60	2,065,377.36	75.0	10+645	511	16,692	19,939	39.0
R-86.5	554,687.87	2,064,866.39	75.0	11+173	528	15,025	18,211	34.5
R-87	554,819.38	2,064,355.48	75.0	11+701	528	13,656	16,564	31.4
R-87.5	554,930.59	2,063,845.11	75.0	12+223	522	15,061	17,929	34.3
R-88	555,042.04	2,063,334.80	75.0	12+745	522	19,338	22,393	42.9
R-88.5	555,137.77	2,062,866.48	75.0	13+223	478	18,776	21,592	45.2
R-89	555,233.72	2,062,398.22	75.0	13+7				

[illegible]

User Name: PIER9037
Drawing Name: C:\Users\pier9037\OneDrive - Atkins Ltd\Documents\SP\CAD\100 CAD\100 CAD\100.dwg Feb 14, 2022 2:59pm

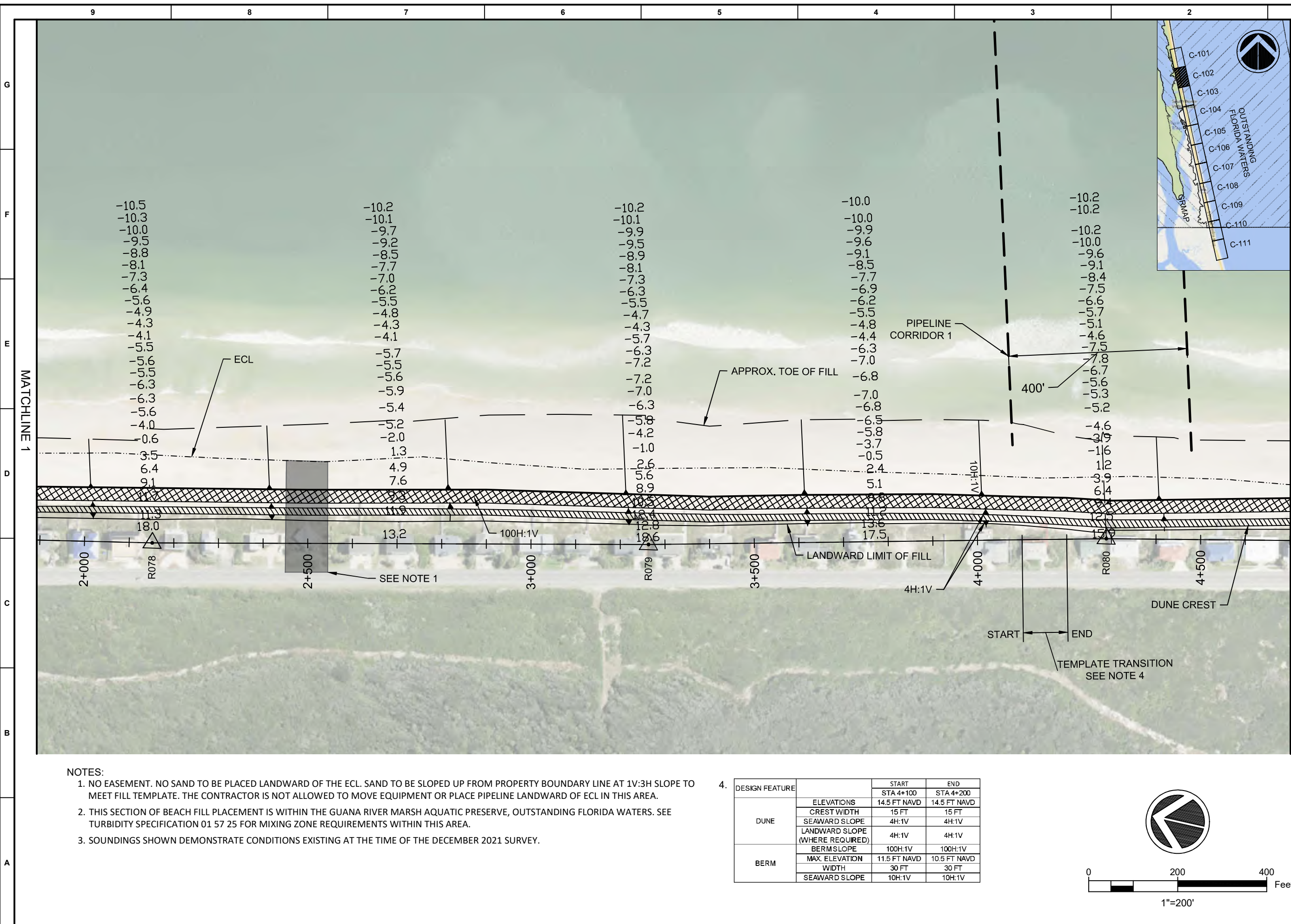


- NOTES:
1. NO MATERIAL TO BE PLACED NORTH OF R-76.
 2. THIS SECTION OF BEACH FILL PLACEMENT IS WITHIN THE GUANA RIVER MARSH AQUATIC PRESERVE, OUTSTANDING FLORIDA WATERS. SEE TURBIDITY SPECIFICATION 01 57 25 FOR MIXING ZONE REQUIREMENTS WITHIN THIS AREA.
 3. SOUNDINGS SHOWN DEMONSTRATE CONDITIONS EXISTING AT THE TIME OF THE DECEMBER 2021 SURVEY.



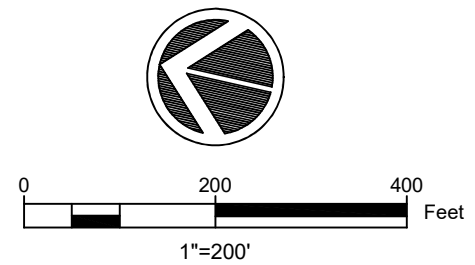
CLIENT		ST. JOHNS COUNTY	
PROJECT		SOUTH PONTE VEDRA BEACH DUNE RESTORATION	
TITLE		BEACH PLACEMENT PLAN	
ENGINEER OF RECORD:		ELECTRONICALLY SIGNED ON COVER PAGE	
DATE: 10/21/2021		ORIGINAL ISSUED DATE: 10/21/2021	
REVISIONS		REVISIONS	
NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			
9			
JOB NO.: 100075997		DRAWN: JLP	
DESIGN: JLP		CHECKED: SLR	
APPROVED: JB		SHEET NO.	
C-101			

User Name: PIER9037
Drawing Name: C:\Users\pier9037\OneDrive Corp\OneDrive - Atkins Ltd\Documents\SP\CAD\100 CAD\C-100.dwg
Feb 14, 2022 2:59pm



- NOTES:
1. NO EASEMENT. NO SAND TO BE PLACED LANDWARD OF THE ECL. SAND TO BE SLOPED UP FROM PROPERTY BOUNDARY LINE AT 1V:3H SLOPE TO MEET FILL TEMPLATE. THE CONTRACTOR IS NOT ALLOWED TO MOVE EQUIPMENT OR PLACE PIPELINE LANDWARD OF ECL IN THIS AREA.
 2. THIS SECTION OF BEACH FILL PLACEMENT IS WITHIN THE GUANA RIVER MARSH AQUATIC PRESERVE, OUTSTANDING FLORIDA WATERS. SEE TURBIDITY SPECIFICATION 01 57 25 FOR MIXING ZONE REQUIREMENTS WITHIN THIS AREA.
 3. SOUNDINGS SHOWN DEMONSTRATE CONDITIONS EXISTING AT THE TIME OF THE DECEMBER 2021 SURVEY.

DESIGN FEATURE		START	END
		STA 4+100	STA 4+200
DUNE	ELEVATIONS	14.5 FT NAVD	14.5 FT NAVD
	CREST WIDTH	15 FT	15 FT
	SEAWARD SLOPE	4H:1V	4H:1V
	LANDWARD SLOPE (WHERE REQUIRED)	4H:1V	4H:1V
	BERM SLOPE	100H:1V	100H:1V
BERM	MAX. ELEVATION	11.5 FT NAVD	10.5 FT NAVD
	WIDTH	30 FT	30 FT
	SEAWARD SLOPE	10H:1V	10H:1V



ENGINEER OF RECORD:
ELECTRONICALLY SIGNED ON COVER PAGE

DATE: 10/21/2021

NOTICE: THE INFORMATION IN THIS DOCUMENT WAS PREPARED BY ATKINS INC. WHILE ATKINS HAS EXERCISED REASONABLE CARE IN THE PREPARATION OF THIS DOCUMENT, IT DOES NOT GUARANTEE THAT THE INFORMATION IS COMPLETELY ACCURATE OR THAT THE INFORMATION WILL NOT BE CHANGED OR ALTERED IN THE FUTURE. THE INFORMATION IS PROVIDED FOR YOUR INFORMATION ONLY. THE INFORMATION IS NOT TO BE USED FOR ANY OTHER PURPOSE. THE INFORMATION IS NOT TO BE USED FOR ANY OTHER PURPOSE. THE INFORMATION IS NOT TO BE USED FOR ANY OTHER PURPOSE.

ST. JOHNS COUNTY

SOUTH PONTE VEDRA

BEACH DUNE RESTORATION

BEACH PLACEMENT PLAN

ATKINS

WWW.ATKINSGLOBAL.COM

8371 SIX ELLIS TRAIL, SUITE 100, JACKSONVILLE, FL 32256 TEL: 904.363.6100

JOB NO.: 100075997

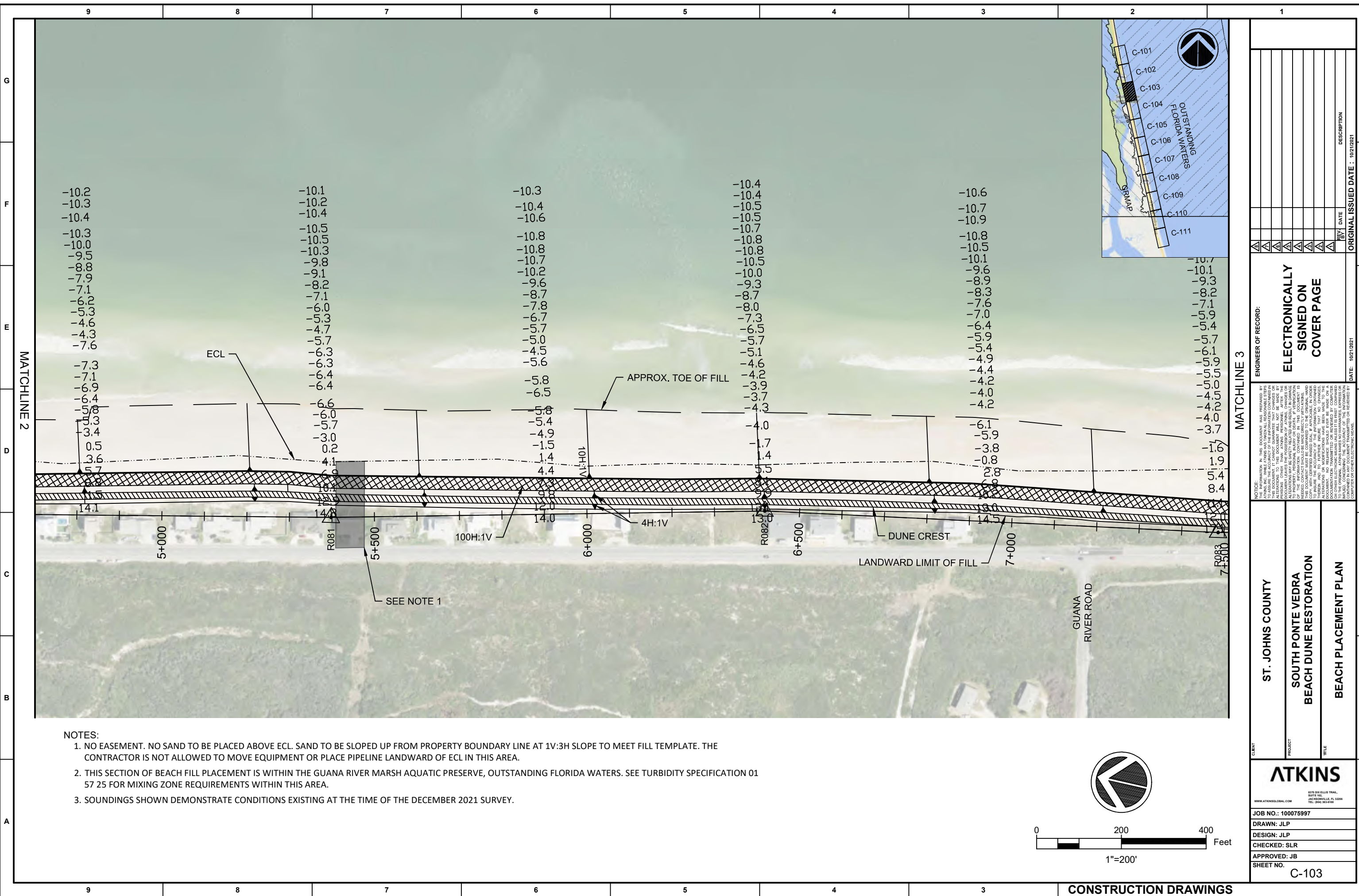
DRAWN: JLP

DESIGN: JLP

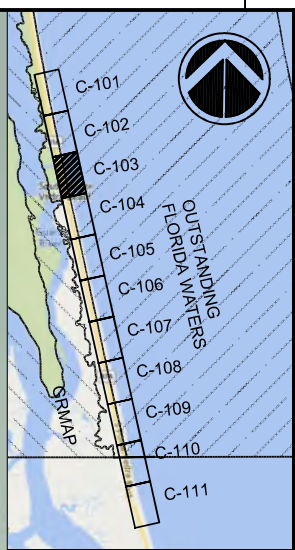
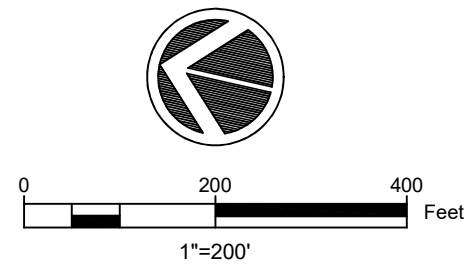
CHECKED: SLR

APPROVED: JB

SHEET NO. C-102

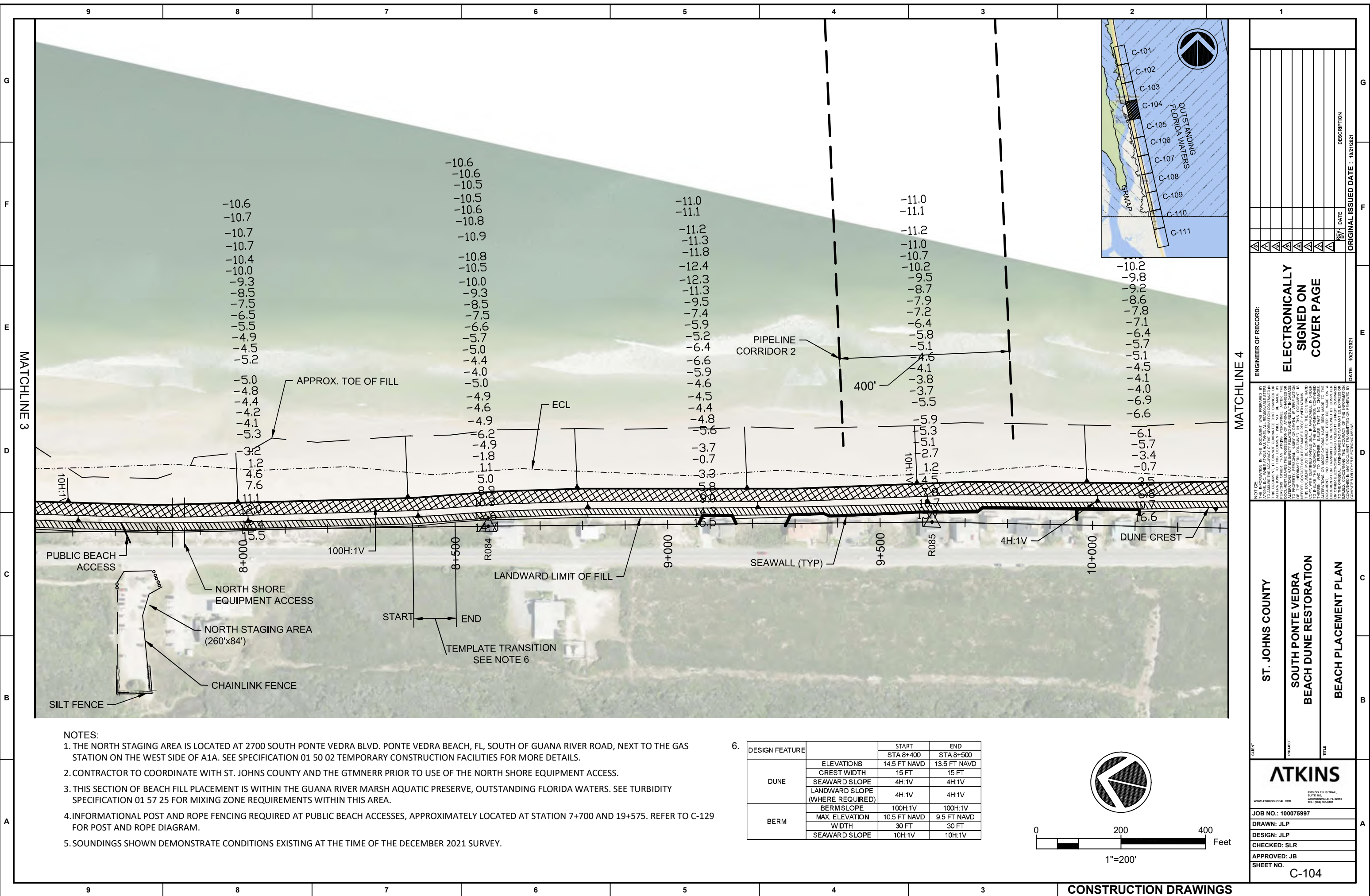


- NOTES:
1. NO EASEMENT. NO SAND TO BE PLACED ABOVE ECL. SAND TO BE SLOPED UP FROM PROPERTY BOUNDARY LINE AT 1V:3H SLOPE TO MEET FILL TEMPLATE. THE CONTRACTOR IS NOT ALLOWED TO MOVE EQUIPMENT OR PLACE PIPELINE LANDWARD OF ECL IN THIS AREA.
 2. THIS SECTION OF BEACH FILL PLACEMENT IS WITHIN THE GUANA RIVER MARSH AQUATIC PRESERVE, OUTSTANDING FLORIDA WATERS. SEE TURBIDITY SPECIFICATION 01 57 25 FOR MIXING ZONE REQUIREMENTS WITHIN THIS AREA.
 3. SOUNDINGS SHOWN DEMONSTRATE CONDITIONS EXISTING AT THE TIME OF THE DECEMBER 2021 SURVEY.



ENGINEER OF RECORD:		ELECTRONICALLY SIGNED ON COVER PAGE		ORIGINAL ISSUED DATE : 10/21/2021	
ST. JOHNS COUNTY		SOUTH PONTE VEDRA BEACH DUNE RESTORATION		ATKINS	
PROJECT		TITLE		JOB NO.: 100075997	
CLIENT		DRAWN: JLP		DESIGN: JLP	
		CHECKED: SLR		APPROVED: JB	
		SHEET NO.		C-103	

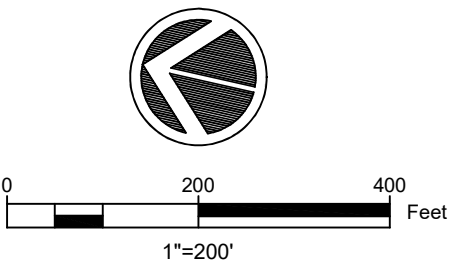
\\atkins\proj\937\OneDrive Corp\OneDrive - Atkins Ltd\Documents\SP\CAD\100 CAD\C-100.dwg Feb 14, 2022 3:00pm User Name: PIER9377 Drawing Name: C:\Users\p9377\OneDrive Corp\OneDrive - Atkins Ltd\Documents\SP\CAD\100 CAD\C-100.dwg



- NOTES:
1. THE NORTH STAGING AREA IS LOCATED AT 2700 SOUTH PONTE VEDRA BLVD. PONTE VEDRA BEACH, FL, SOUTH OF GUANA RIVER ROAD, NEXT TO THE GAS STATION ON THE WEST SIDE OF A1A. SEE SPECIFICATION 01 50 02 TEMPORARY CONSTRUCTION FACILITIES FOR MORE DETAILS.
 2. CONTRACTOR TO COORDINATE WITH ST. JOHNS COUNTY AND THE GTMNERR PRIOR TO USE OF THE NORTH SHORE EQUIPMENT ACCESS.
 3. THIS SECTION OF BEACH FILL PLACEMENT IS WITHIN THE GUANA RIVER MARSH AQUATIC PRESERVE, OUTSTANDING FLORIDA WATERS. SEE TURBIDITY SPECIFICATION 01 57 25 FOR MIXING ZONE REQUIREMENTS WITHIN THIS AREA.
 4. INFORMATIONAL POST AND ROPE FENCING REQUIRED AT PUBLIC BEACH ACCESSSES, APPROXIMATELY LOCATED AT STATION 7+700 AND 19+575. REFER TO C-129 FOR POST AND ROPE DIAGRAM.
 5. SOUNDINGS SHOWN DEMONSTRATE CONDITIONS EXISTING AT THE TIME OF THE DECEMBER 2021 SURVEY.

6.

DESIGN FEATURE		START	END
		STA 8+400	STA 8+500
DUNE	ELEVATIONS	14.5 FT NAVD	13.5 FT NAVD
	CREST WIDTH	15 FT	15 FT
	SEAWARD SLOPE	4H:1V	4H:1V
	LANDWARD SLOPE (WHERE REQUIRED)	4H:1V	4H:1V
BERM	BERM SLOPE	100H:1V	100H:1V
	MAX. ELEVATION	10.5 FT NAVD	9.5 FT NAVD
	WIDTH	30 FT	30 FT
	SEAWARD SLOPE	10H:1V	10H:1V



ENGINEER OF RECORD:
ELECTRONICALLY SIGNED ON COVER PAGE

DATE: 10/21/2021

ST. JOHNS COUNTY

SOUTH PONTE VEDRA BEACH DUNE RESTORATION

BEACH PLACEMENT PLAN

ATKINS

8311 SIX ELLIS TRAIL, SUITE 100, JACKSONVILLE, FL 32256 TEL: 904.343.6100

JOB NO.: 100075997

DRAWN: JLP

DESIGN: JLP

CHECKED: SLR

APPROVED: JB

SHEET NO. C-104

CLIENT

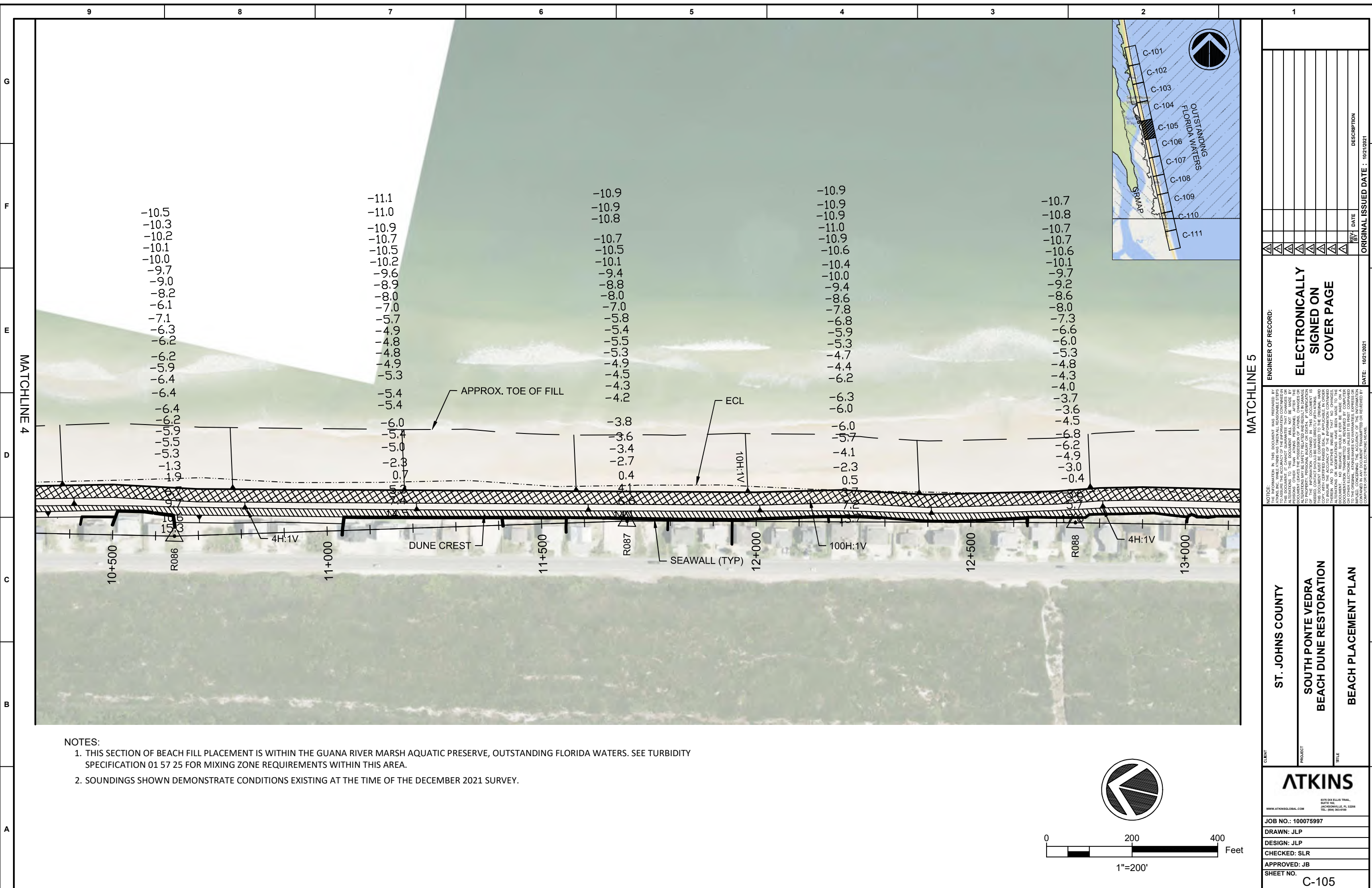
PROJECT

TITLE

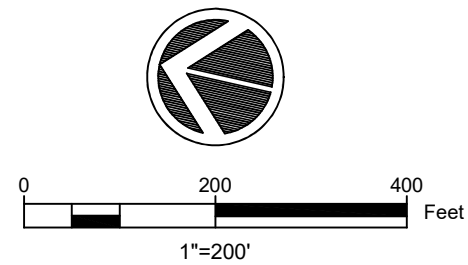
REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

ORIGINAL ISSUED DATE : 10/21/2021

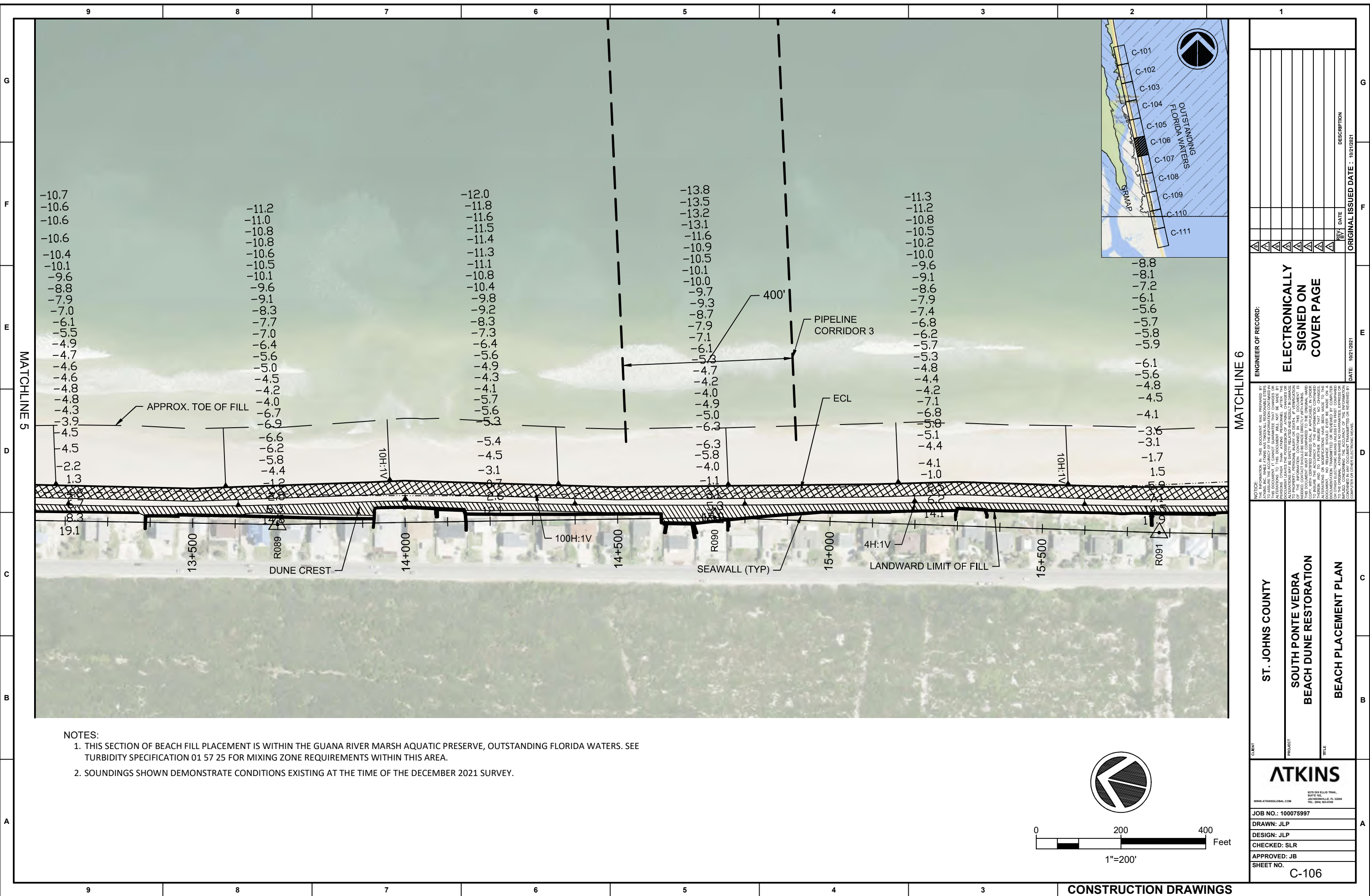


- NOTES:
1. THIS SECTION OF BEACH FILL PLACEMENT IS WITHIN THE GUANA RIVER MARSH AQUATIC PRESERVE, OUTSTANDING FLORIDA WATERS. SEE TURBIDITY SPECIFICATION 01 57 25 FOR MIXING ZONE REQUIREMENTS WITHIN THIS AREA.
 2. SOUNDINGS SHOWN DEMONSTRATE CONDITIONS EXISTING AT THE TIME OF THE DECEMBER 2021 SURVEY.

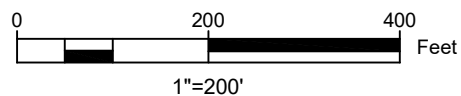


CLIENT		ST. JOHNS COUNTY	
PROJECT		SOUTH PONTE VEDRA BEACH DUNE RESTORATION	
TITLE		BEACH PLACEMENT PLAN	
ENGINEER OF RECORD:		ELECTRONICALLY SIGNED ON COVER PAGE	
DATE: 10/21/2021		ORIGINAL ISSUED DATE: 10/21/2021	
REVISIONS		REVISIONS	
NO.	DATE	DESCRIPTION	
1			
2			
3			
4			
5			
6			
7			
8			
9			
JOB NO.: 100075997		DRAWN: JLP	
DESIGN: JLP		CHECKED: SLR	
APPROVED: JB		SHEET NO.	
C-105			

\\nas01\proj\937\OneDrive Corp\OneDrive - Atkins Ltd\Documents\SP\CAD\100 CAD\C-100.dwg Feb 14, 2022 3:00pm User Name: JPLP0937 Drawing Name: C:\Users\jplp0937\OneDrive Corp\OneDrive - Atkins Ltd\Documents\SP\CAD\100 CAD\C-100.dwg

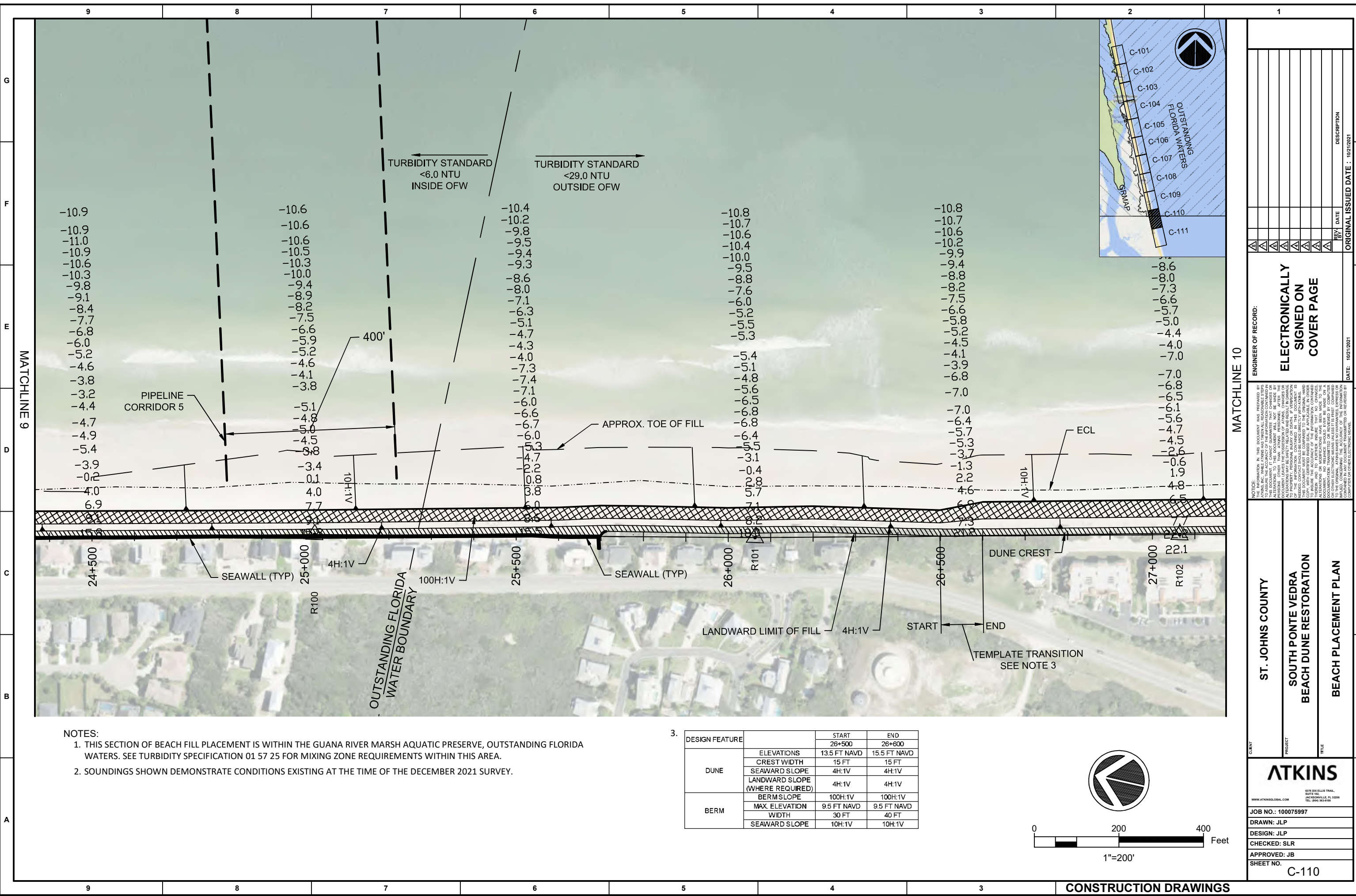


- NOTES:
1. THIS SECTION OF BEACH FILL PLACEMENT IS WITHIN THE GUANA RIVER MARSH AQUATIC PRESERVE, OUTSTANDING FLORIDA WATERS. SEE TURBIDITY SPECIFICATION 01 57 25 FOR MIXING ZONE REQUIREMENTS WITHIN THIS AREA.
 2. SOUNDINGS SHOWN DEMONSTRATE CONDITIONS EXISTING AT THE TIME OF THE DECEMBER 2021 SURVEY.



CONSTRUCTION DRAWINGS

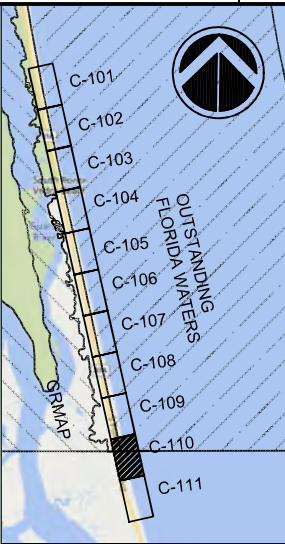
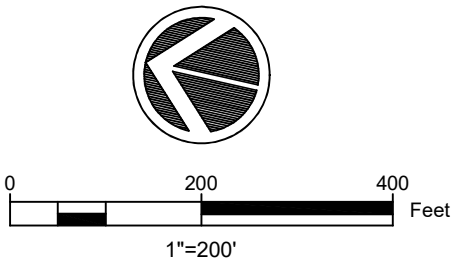
CLIENT		ST. JOHNS COUNTY	
PROJECT		SOUTH PONTE VEDRA BEACH DUNE RESTORATION	
TITLE		BEACH PLACEMENT PLAN	
ENGINEER OF RECORD:		ELECTRONICALLY SIGNED ON COVER PAGE	
DATE: 10/21/2021		ORIGINAL ISSUED DATE: 10/21/2021	
REVISIONS		REVISIONS	
REV	DATE	REV	DATE
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	
9		9	
10		10	
11		11	
12		12	
13		13	
14		14	
15		15	
16		16	
17		17	
18		18	
19		19	
20		20	
21		21	
22		22	
23		23	
24		24	
25		25	
26		26	
27		27	
28		28	
29		29	
30		30	
31		31	
32		32	
33		33	
34		34	
35		35	
36		36	
37		37	
38		38	
39		39	
40		40	
41		41	
42		42	
43		43	
44		44	
45		45	
46		46	
47		47	
48		48	
49		49	
50		50	
51		51	
52		52	
53		53	
54		54	
55		55	
56		56	
57		57	
58		58	
59		59	
60		60	
61		61	
62		62	
63		63	
64		64	
65		65	
66		66	
67		67	
68		68	
69		69	
70		70	
71		71	
72		72	
73		73	
74		74	
75		75	
76		76	
77		77	
78		78	
79		79	
80		80	
81		81	
82		82	
83		83	
84		84	
85		85	
86		86	
87		87	
88		88	
89		89	
90		90	
91		91	
92		92	
93		93	
94		94	
95		95	
96		96	
97		97	
98		98	
99		99	
100		100	
101		101	
102		102	
103		103	
104		104	
105		105	
106		106	
107		107	
108		108	
109		109	
110		110	
111		111	
112		112	
113		113	
114		114	
115		115	
116		116	
117		117	
118		118	
119		119	
120		120	
121		121	
122		122	
123		123	
124		124	
125		125	
126		126	
127		127	
128		128	
129		129	
130		130	
131		131	
132		132	
133		133	
134		134	
135		135	
136		136	
137		137	
138		138	
139		139	
140		140	
141		141	
142		142	
143		143	
144		144	
145		145	
146		146	
147		147	
148		148	
149		149	
150		150	
151		151	
152		152	
153		153	
154		154	
155		155	
156		156	
157		157	
158		158	
159		159	
160		160	
161		161	
162		162	
163		163	
164		164	
165		165	
166		166	
167		167	
168		168	
169		169	
170		170	
171		171	
172		172	
173		173	
174		174	
175		175	
176		176	
177		177	
178		178	
179		179	
180		180	
181		181	
182		182	
183		183	
184		184	
185		185	
186		186	
187		187	
188		188	
189		189	
190		190	
191		191	
192		192	
193		193	
194		194	
195		195	
196		196	
197		197	
198		198	
199		199	
200		200	
201		201	
202		202	
203		203	
204		204	
205		205	
206		206	
207		207	
208		208	
209		209	
210		210	
211		211	
212		212	
213		213	
214		214	
215		215	
216		216	
217		217	
218		218	
219		219	
220		220	
221		221	
222		222	
223		223	
224		224	
225		225	
226		226	
227		227	
228		228	
229		229	
230		230	
231		231	
232		232	
233		233	
234		234	
235		235	
236		236	
237		237	
238		238	
239		239	
240		240	
241		241	
242		242	
243		243	
244		244	
245		245	
246		246	
247		247	
248		248	
249		249	
250		250	
251		251	
252		252	
253		253	
254		254	
255		255	
256		256	
257		257	
258		258	
259		259	
260		260	
261		261	
262		262	
263		263	
264		264	
265		265	
266		266	
267		267	
268		268	
269		269	
270		270	
271		271	
272		272	
273		273	
274		274	
275		275	
276		276	
277		277	
278		278	
279		279	
280		280	
281		281	
282		282	
283		283	
284		284	
285		285	
286		286	
287		287	
288		288	
289		289	
290		290	
291		291	
292		292	
293		293	
294		294	
295		295	
296		296	
297		297	
298		298	
299		299	
300		300	
301		301	
302		302	
303		303	
304		304	
305		305	
306		306	
307		307	
308		308	
309		309	
310		310	
311		311	
312		312	
313		313	
314		314	
315		315	
316		316	
317		317	
318		318	
319		319	
320		320	
321		321	
322		322	
323		323	
324		324	
325		325	
326		326	
327		327	
328		328	
329		329	
330		330	
331		331	
332		332	
333		333	
334		334	
335		335	
336		336	
337		337	
338		338	
339		339	
340		340	
341		341	
342		342	
343		343	
344		344	
345		345	
346		346	
347		347	
348		348	
349		349	
350		350	
351		351	
352		352	
353		353	
354		354	
355		355	
356		356	
357		357	
358		358	
359		359	
360		360	
361		361	
362		362	
363		363	
364		364	
365		365	
366		366	
367		367	
368		368	
369		369	
370		370	
371		371	
372		372	
373		373	
374		374	
375		375	
376		376	
377		377	
378		378	
379		379	
380		380	
381		381	
382		382	
383		383	
384		384	
385		385	
386		386	
387		387	
388		388	
389		389	
390		390	
391		391	
392		392	
393		393	
394		394	
395		395	
396		396	
397		397	
398		398	
399		399	
400		400	
401		401	
402		402	
403		403	
404		404	
405		405	
406		406	
407		407	
408		408	
409		409	
410		410	
411		411	
412		412	
413		413	
414		414	
415		415	



- NOTES:
1. THIS SECTION OF BEACH FILL PLACEMENT IS WITHIN THE GUANA RIVER MARSH AQUATIC PRESERVE, OUTSTANDING FLORIDA WATERS. SEE TURBIDITY SPECIFICATION 01 57 25 FOR MIXING ZONE REQUIREMENTS WITHIN THIS AREA.
 2. SOUNDINGS SHOWN DEMONSTRATE CONDITIONS EXISTING AT THE TIME OF THE DECEMBER 2021 SURVEY.

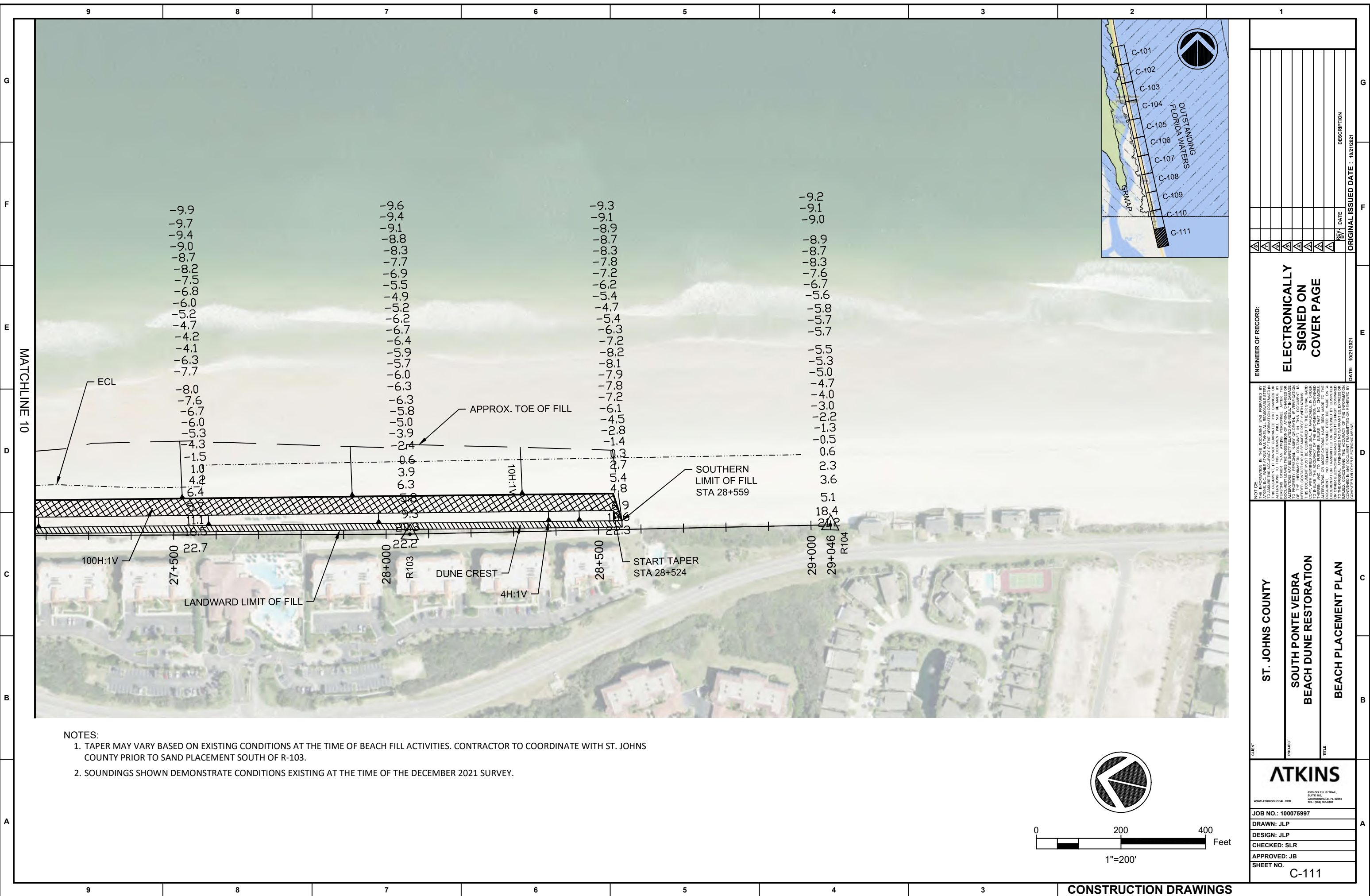
3.

DESIGN FEATURE		START 26+500	END 26+600
DUNE	ELEVATIONS	13.5 FT NAVD	15.5 FT NAVD
	CREST WIDTH	15 FT	15 FT
	SEAWARD SLOPE	4H:1V	4H:1V
	LANDWARD SLOPE (WHERE REQUIRED)	4H:1V	4H:1V
BERM	BERM SLOPE	100H:1V	100H:1V
	MAX. ELEVATION	9.5 FT NAVD	9.5 FT NAVD
	WIDTH	30 FT	40 FT
	SEAWARD SLOPE	10H:1V	10H:1V

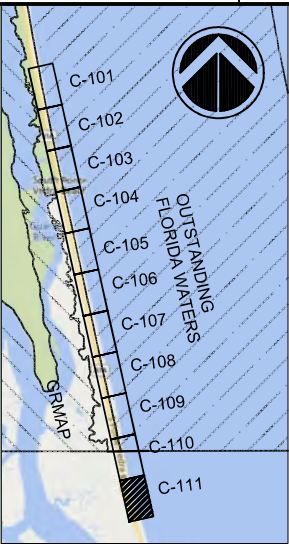
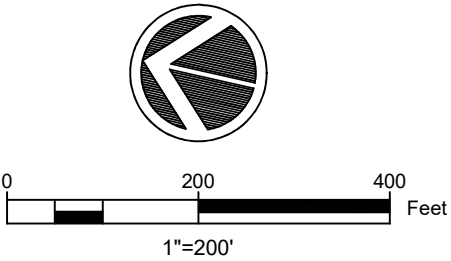


ENGINEER OF RECORD:		ELECTRONICALLY SIGNED ON COVER PAGE		DATE: 10/21/2021	
ST. JOHNS COUNTY		SOUTH PONTE VEDRA BEACH DUNE RESTORATION		TITLE	
PROJECT		BEACH PLACEMENT PLAN		C-110	
CLIENT		ATKINS		JOB NO.: 100075997	
				DRAWN: JLP	
				DESIGN: JLP	
				CHECKED: SLR	
				APPROVED: JB	
				SHEET NO.	

User Name: PIER9037
Drawing Name: C:\Users\pier9037\OneDrive - Atkins Ltd\Documents\SP\CAD\100 CAD\C-100.dwg Feb 14, 2022 - 3:00pm

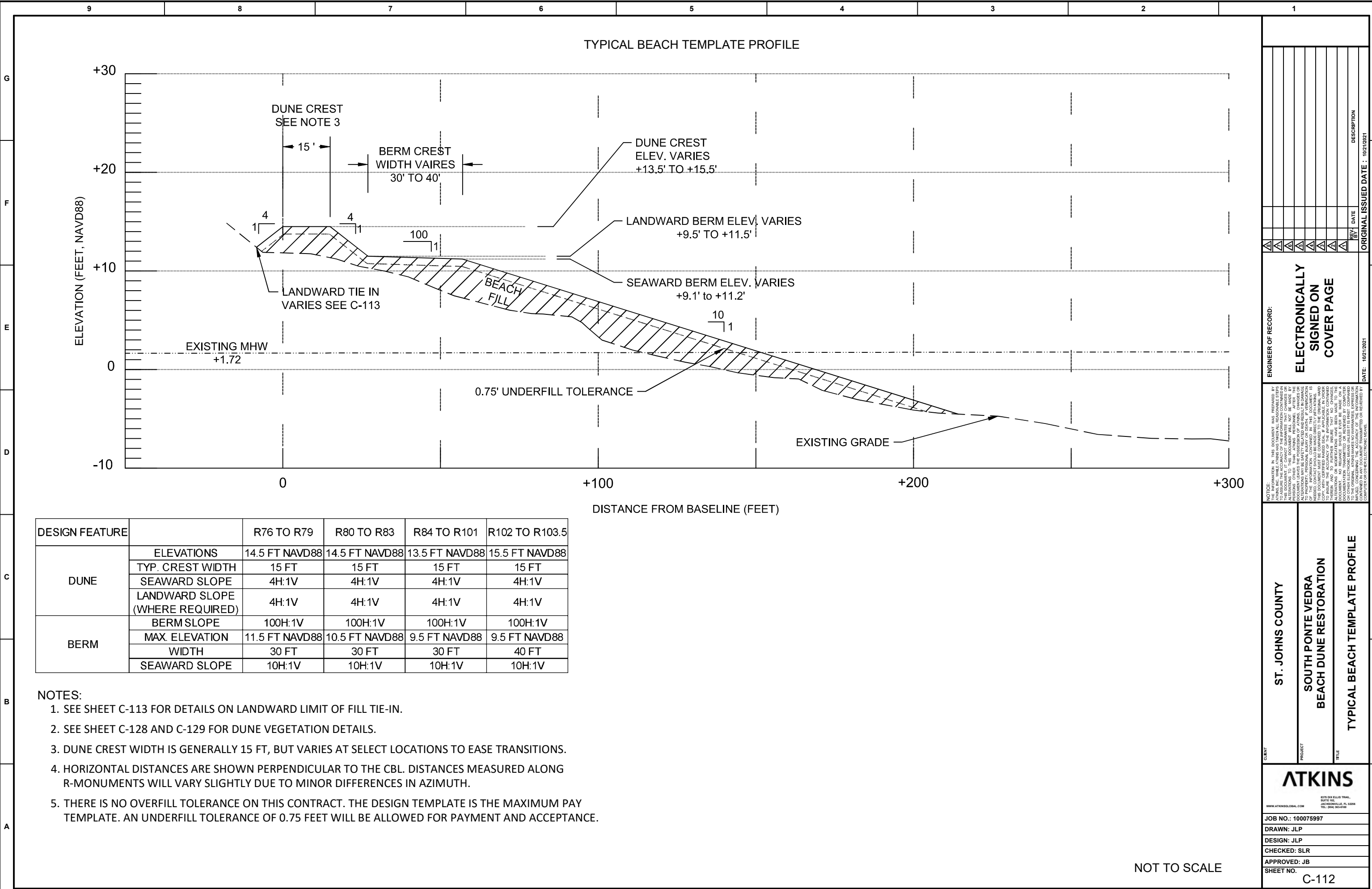


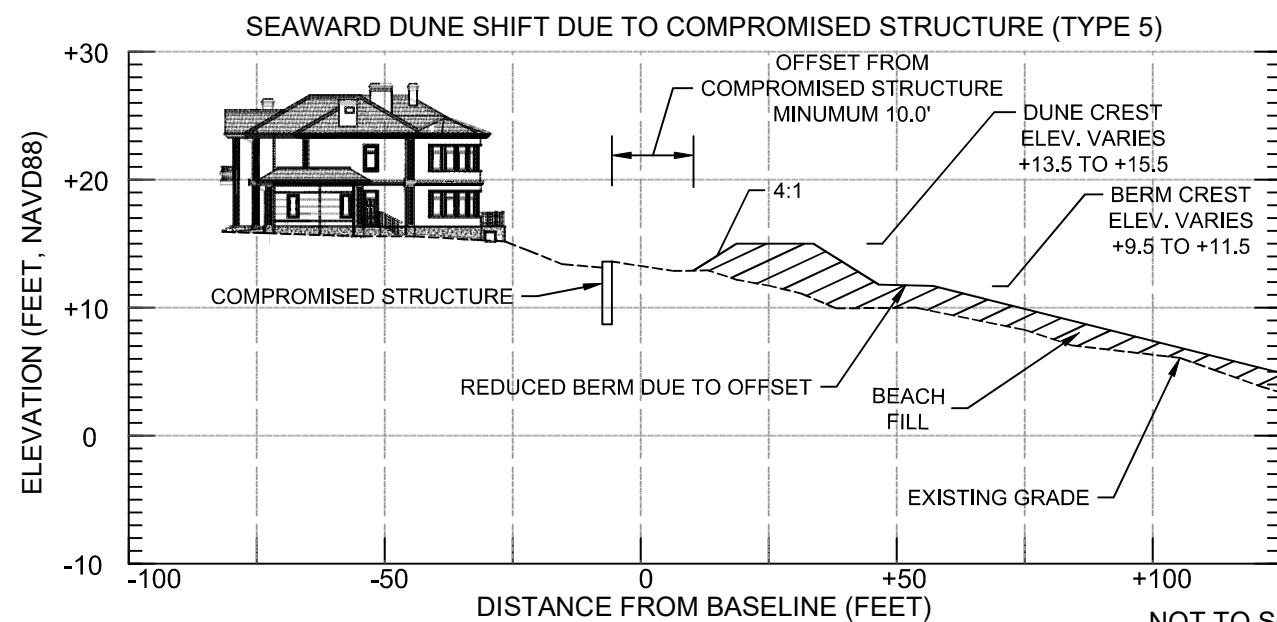
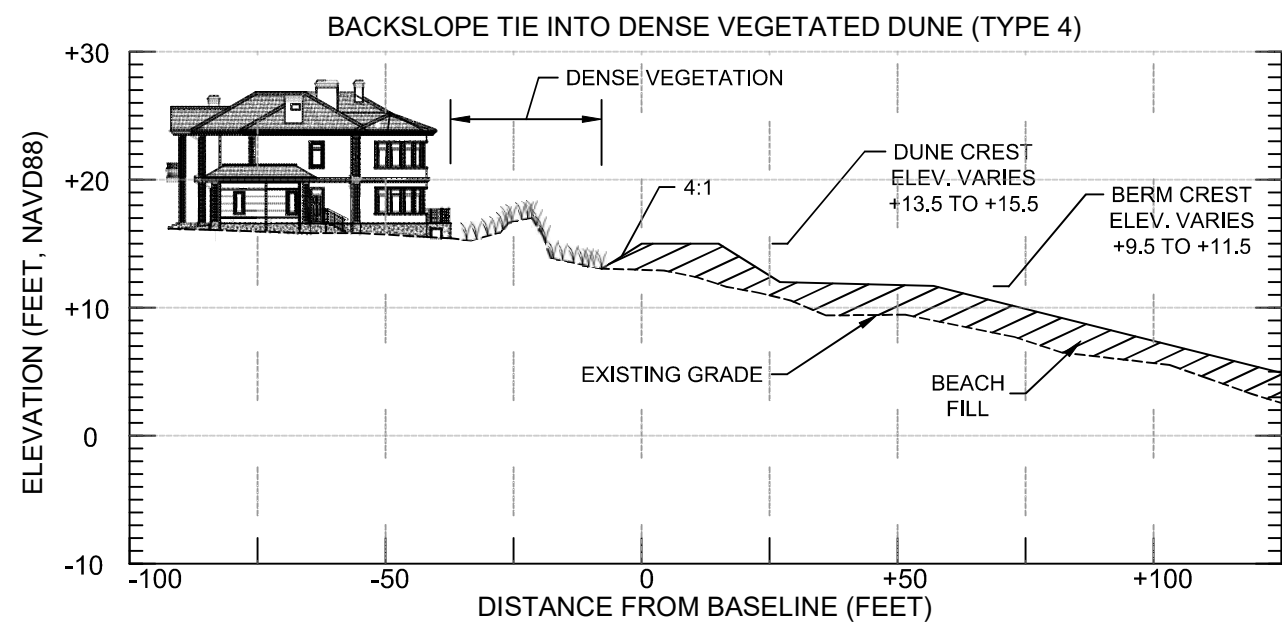
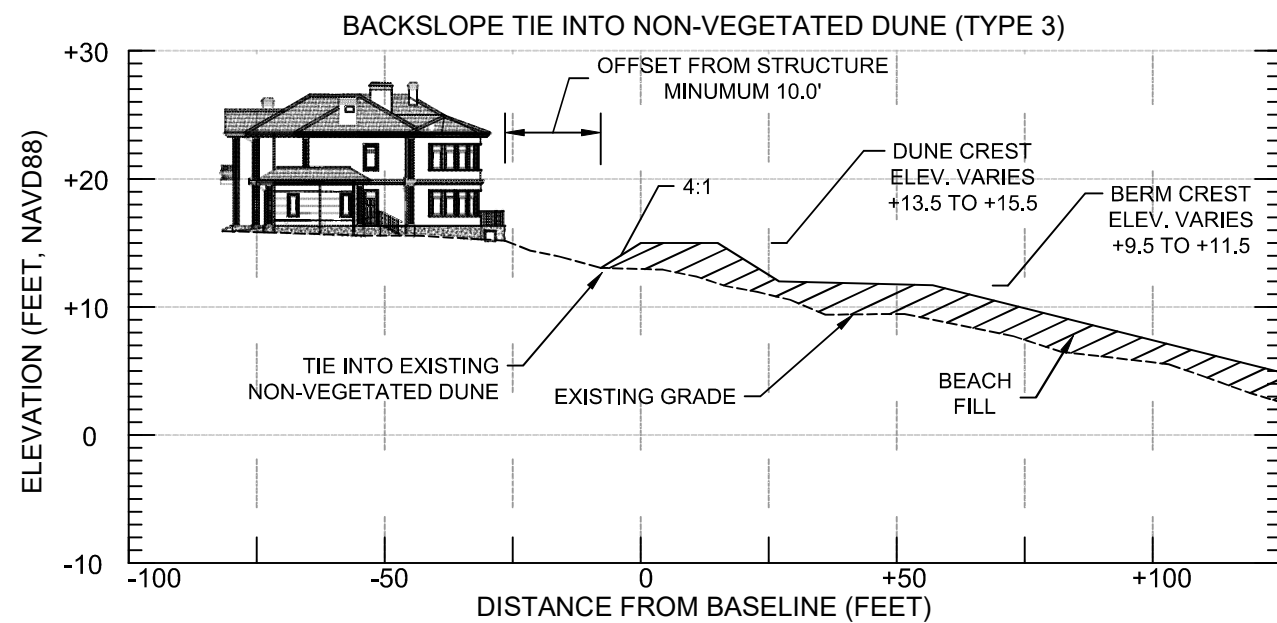
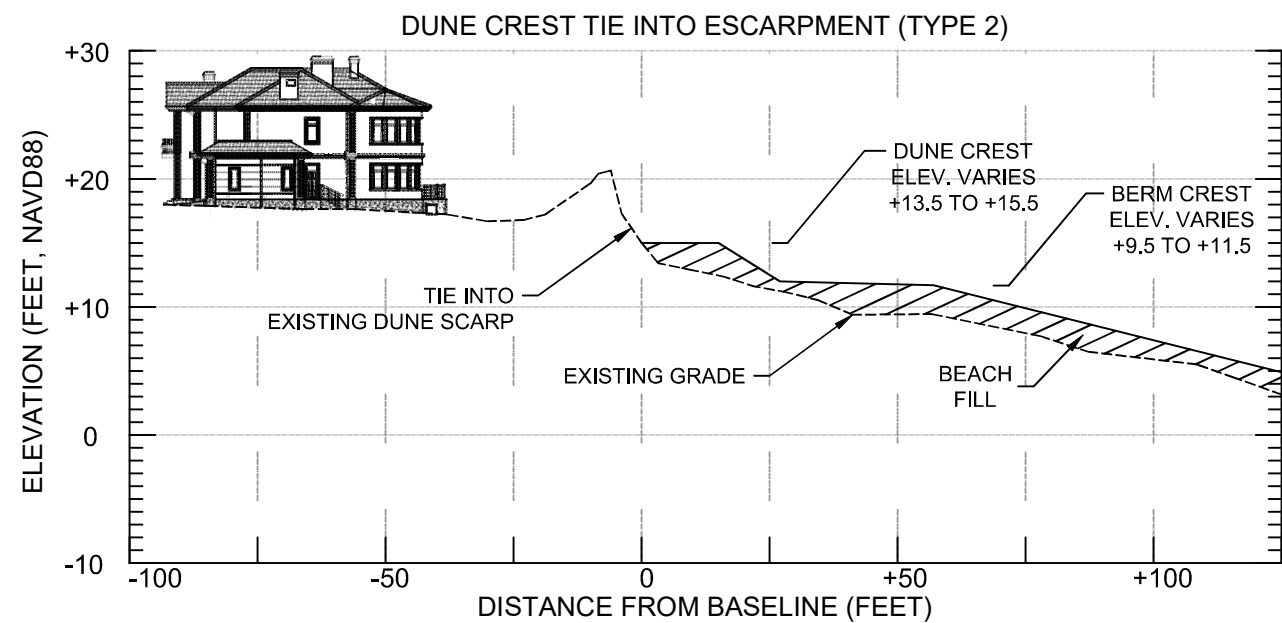
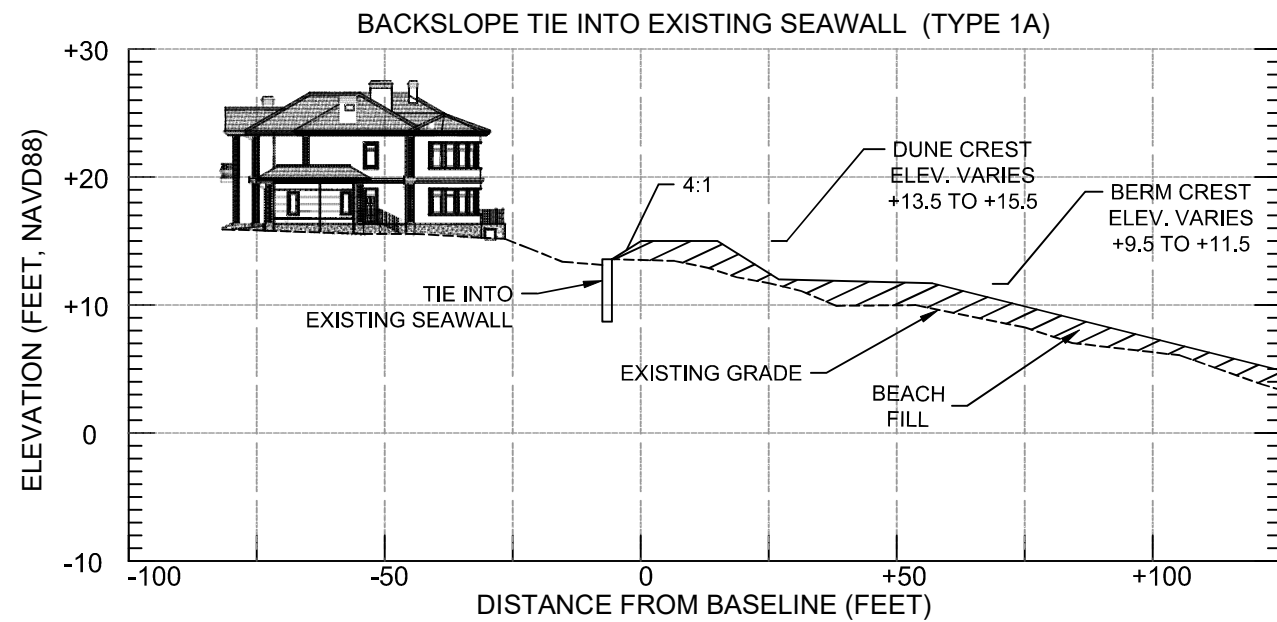
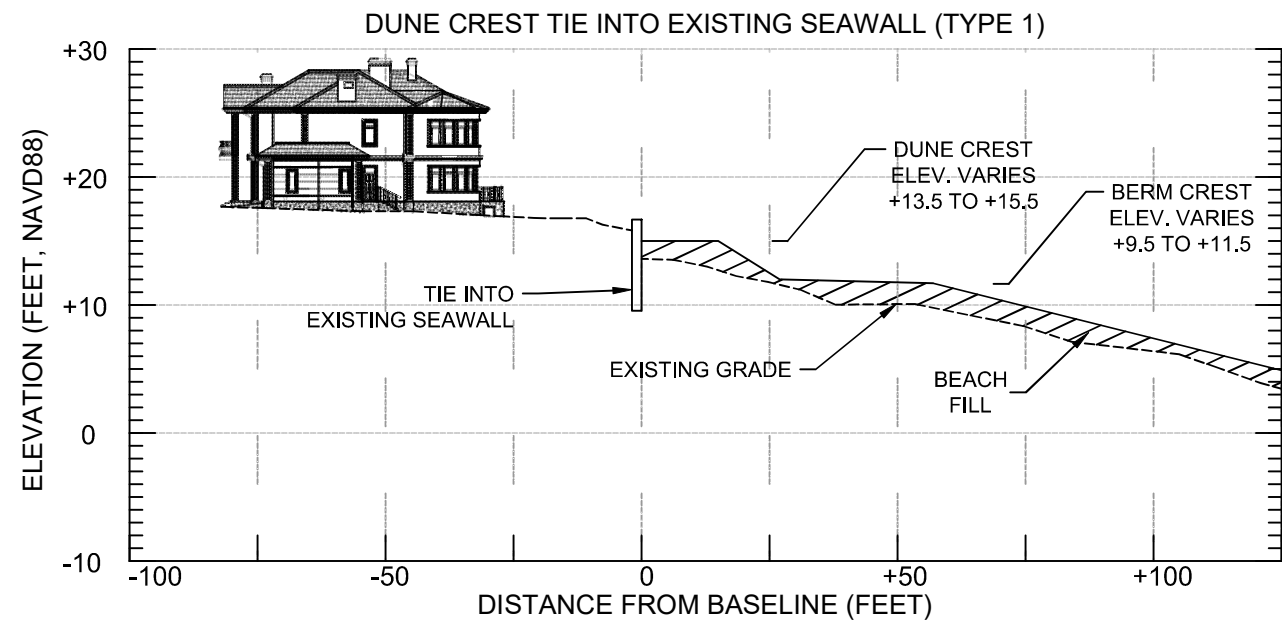
- NOTES:
1. TAPER MAY VARY BASED ON EXISTING CONDITIONS AT THE TIME OF BEACH FILL ACTIVITIES. CONTRACTOR TO COORDINATE WITH ST. JOHNS COUNTY PRIOR TO SAND PLACEMENT SOUTH OF R-103.
 2. SOUNDINGS SHOWN DEMONSTRATE CONDITIONS EXISTING AT THE TIME OF THE DECEMBER 2021 SURVEY.



ENGINEER OF RECORD:		ELECTRONICALLY SIGNED ON COVER PAGE		DATE: 10/21/2021	
ST. JOHNS COUNTY		SOUTH PONTE VEDRA BEACH DUNE RESTORATION		TITLE	
CLIENT		PROJECT		TITLE	
ATKINS		ATKINS		ATKINS	
JOB NO.: 100075997		DRAWN: JLP		DESIGN: JLP	
CHECKED: SLR		APPROVED: JB		SHEET NO.	
C-111					

User Name: PIER9037
Drawing Name: C:\Users\pier9037\OneDrive - Atkins Ltd\Documents\SP\CAD\100 CAD\C-100_TYP.dwg
Feb 14, 2022 - 3:00pm





ENGINEER OF RECORD:

**ELECTRONICALLY
SIGNED ON
COVER PAGE**

ORIGINAL ISSUED DATE : 10/21/2021

[illegible]THE
SUMMER
LECTURE

[illegible]

ST. JOHNS COUNTY

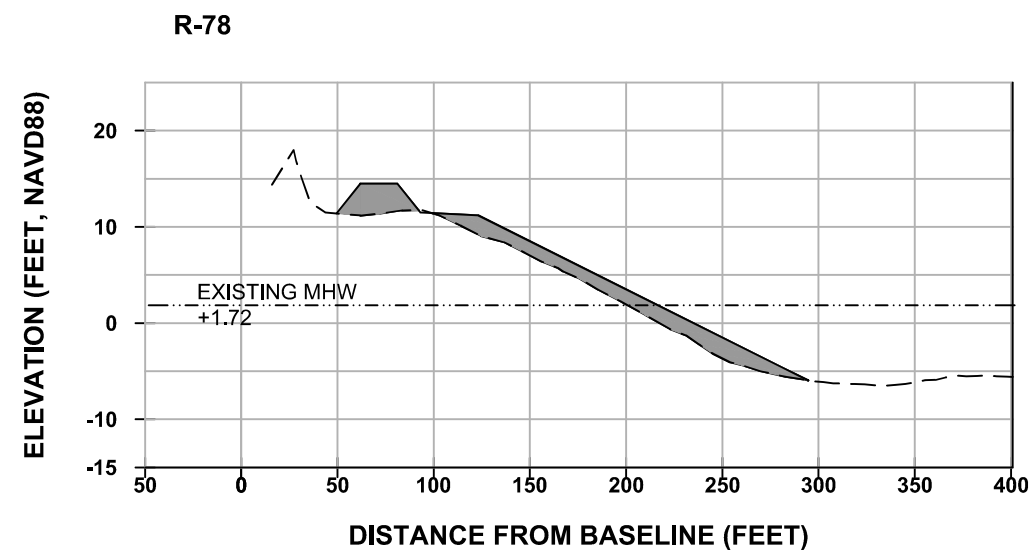
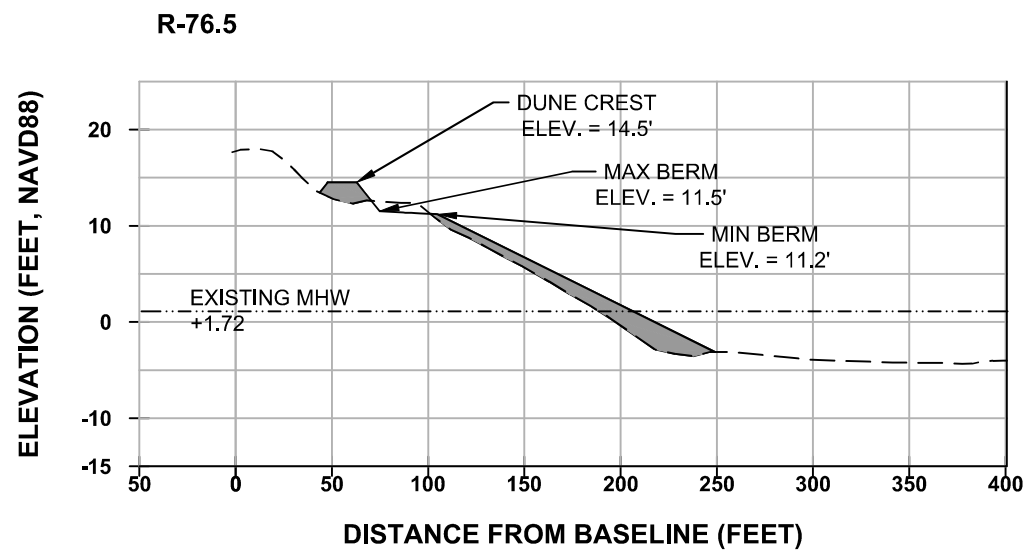
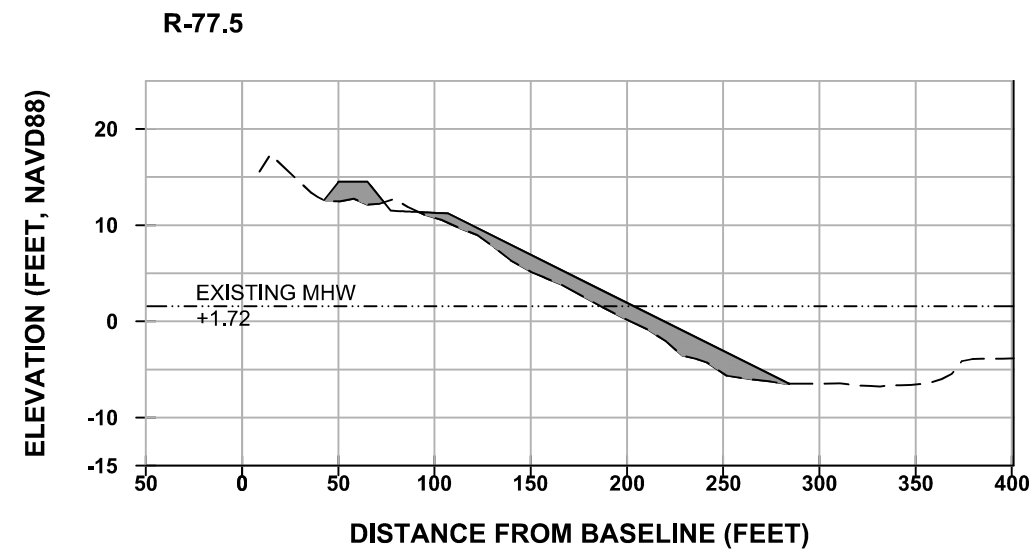
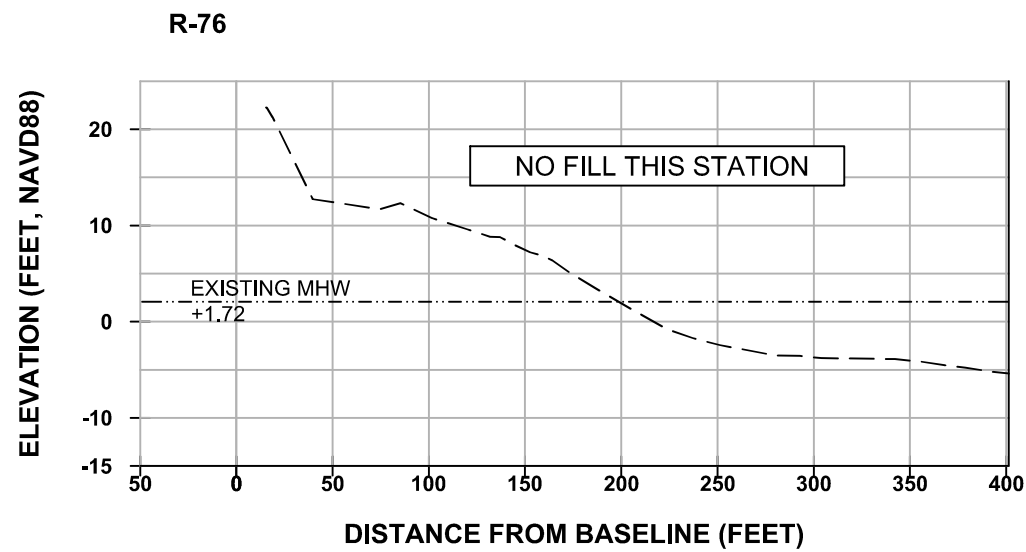
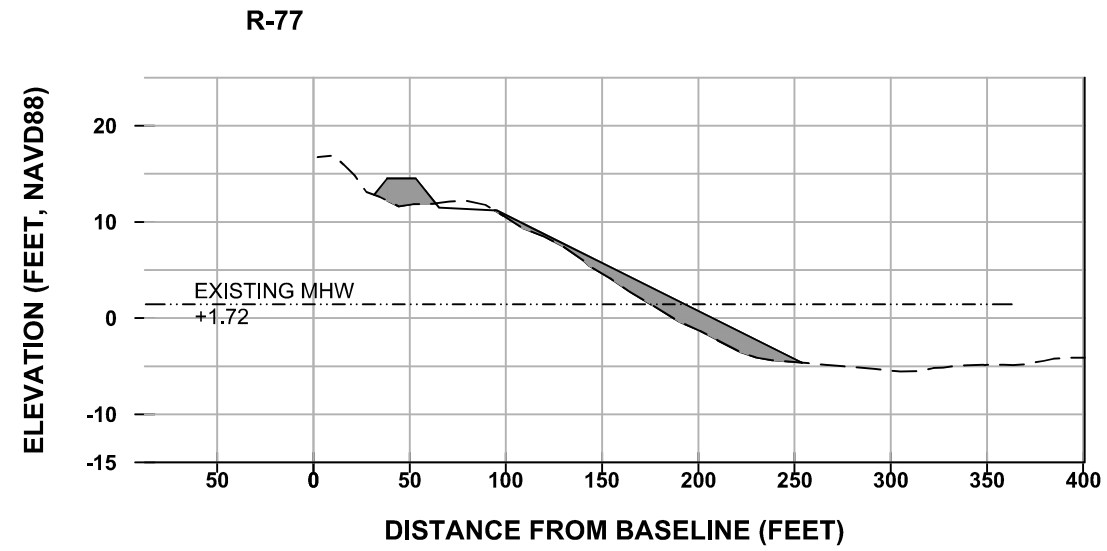
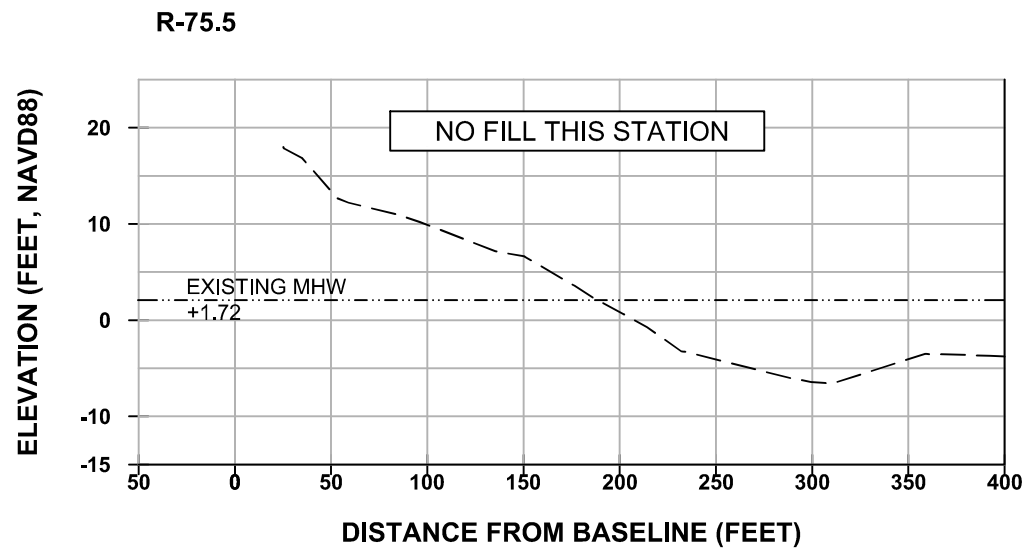
**SOUTH PONTE VEDRA
BEACH DUNE RESTORATION**

LANDWARD DUNE TIE-IN SCENARIOS

ATKINS

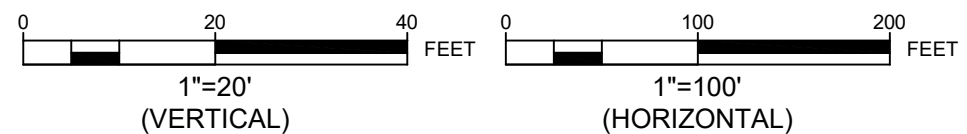
WWW.ATKINSGLOBAL.COM	8375 DIX ELLIS TRAIL, SUITE 102, JACKSONVILLE, FL 32225 TEL: (904) 383-6100
JOB NO.: 100075997	
DRAWN: JLP	
DESIGN: JLP	
CHECKED: SLR	
APPROVED: JB	
SHEET NO.	

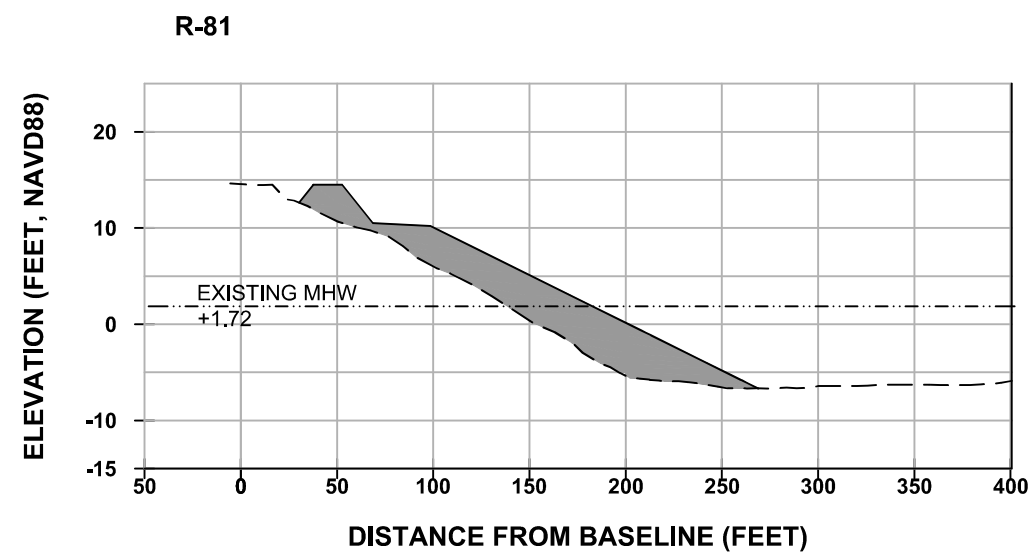
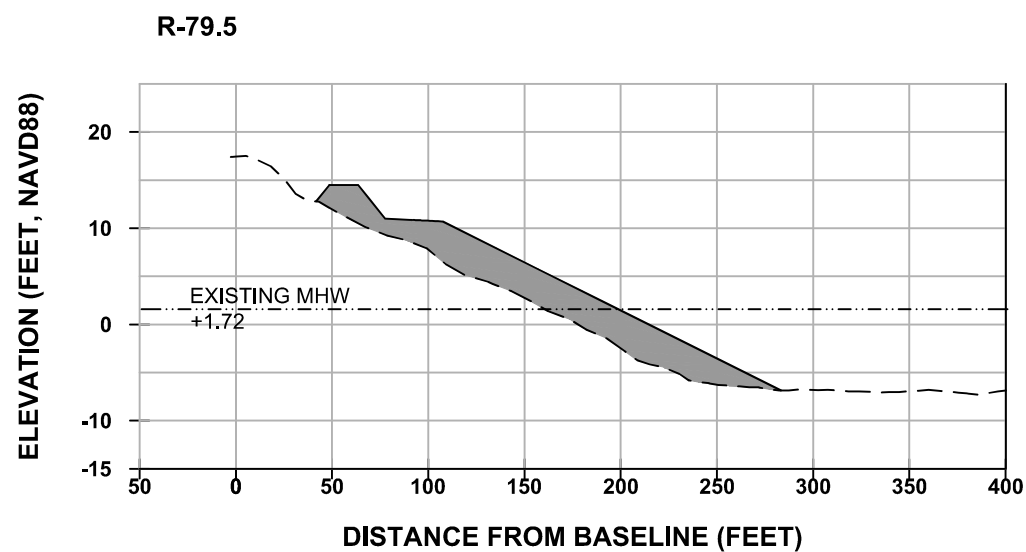
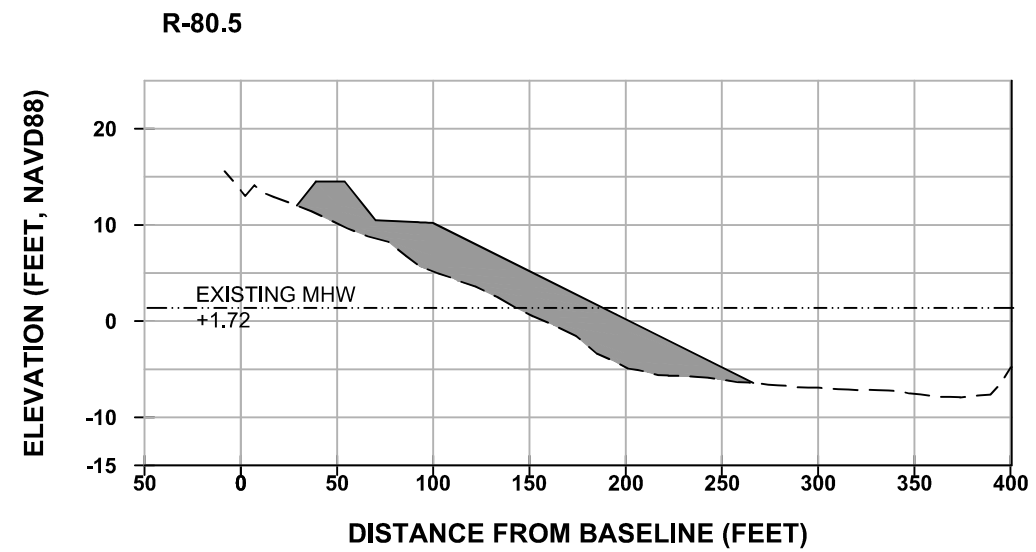
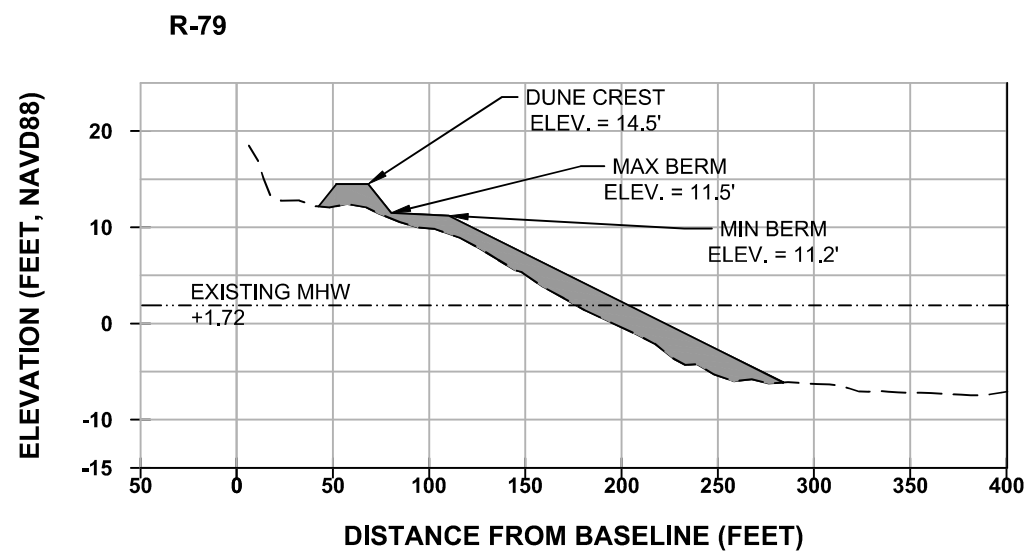
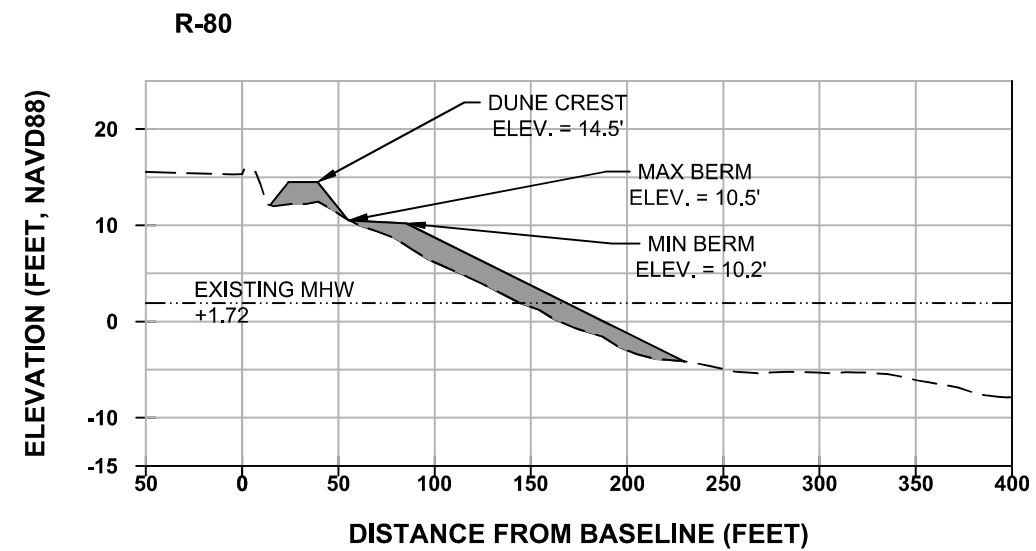
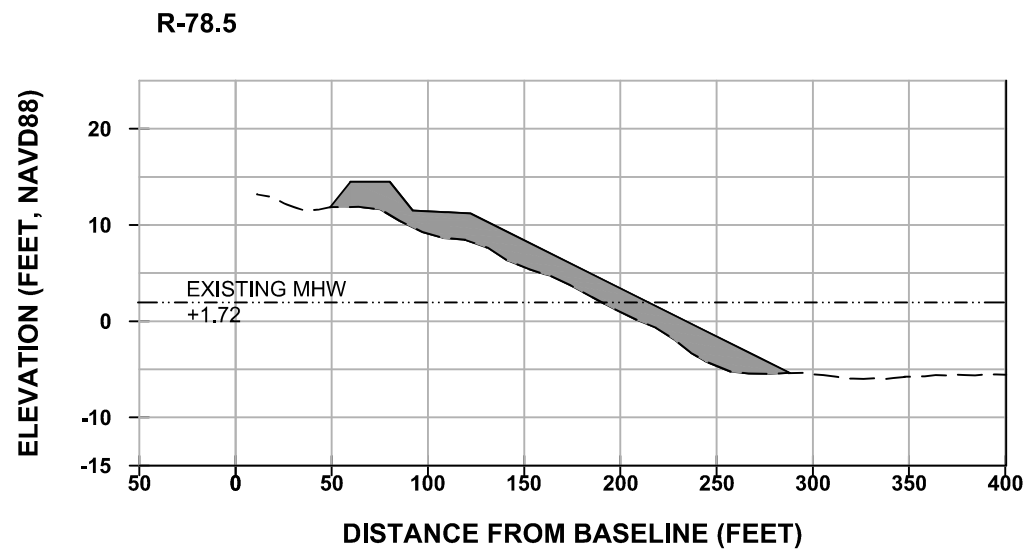
CONSTRUCTION DRAWINGS



NOTES:

1. DEPTHS SHOWN DEMONSTRATE CONDITIONS EXISTING AT THE TIME OF THE DECEMBER 2021 SURVEY.

[illegible]



NOTES:

1. MAX BERM ELEVATION GRADUALLY TRANSITIONS FROM 11.5 TO 10.5 FEET BETWEEN R-79 AND R-80.
2. TEMPLATE TRANSITION START AT STATION 4+100, END AT STATION 4+200.
3. DEPTHS SHOWN DEMONSTRATE CONDITIONS EXISTING AT THE TIME OF THE DECEMBER 2021 SURVEY.

ENGINEER OF RECORD:

**ELECTRONICALLY
SIGNED ON
COVER PAGE**

NOTICE: INFORMATION IN THIS DOCUMENT WAS PREPARED BY THE AIR FORCE RESEARCH AND DEVELOPMENT COMMAND, HANSON AIR FORCE BASE, MINNAPOLIS, MINN. WHILE IT HAS BEEN MADE AVAILABLE TO THE PUBLIC, THIS DOCUMENT IS NOT GUARANTEED TO BE FREE OF ERRORS OR OMISSIONS. THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED, BUT IT MAY BE SUBJECT TO CHANGE WITHOUT NOTICE. THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED, BUT IT MAY BE SUBJECT TO CHANGE WITHOUT NOTICE. THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED, BUT IT MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

ST. JOHNS COUNTY

SOUTH PONTE VEDRA BEACH DUNE RESTORATION

BEACH PROFILES

ATKINS

8375 DIX ELLIS TRAIL,
SUITE 102,
JACKSONVILLE, FL 32256
TEL : (904) 363-6100

JOB NO.: 100075997

DRAWN: JLP

DESIGN: JLP

CHECKED: SL

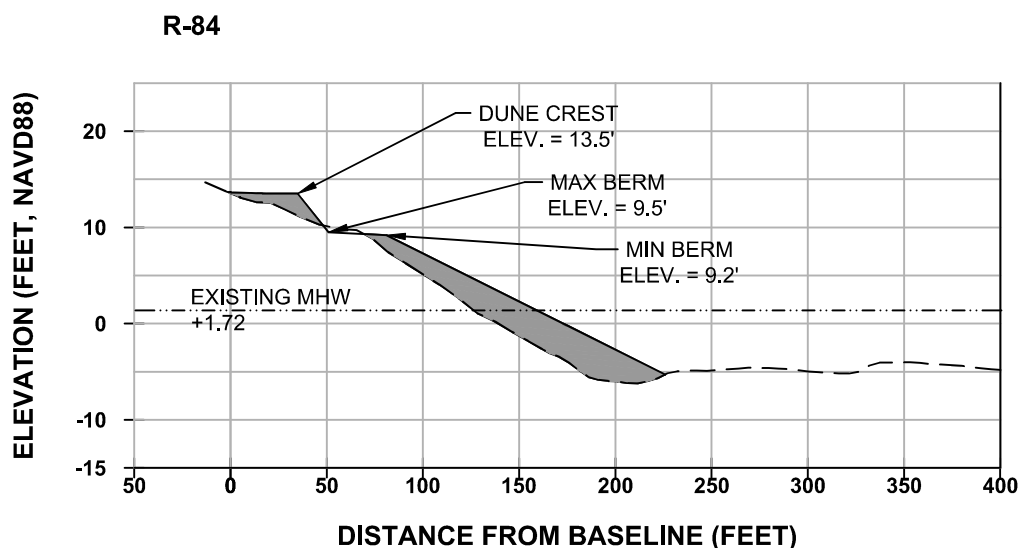
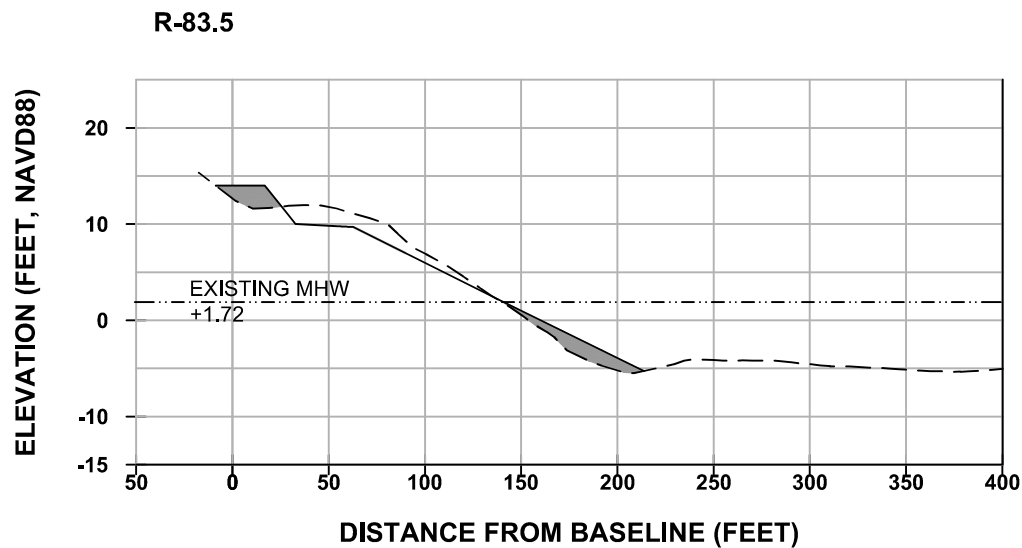
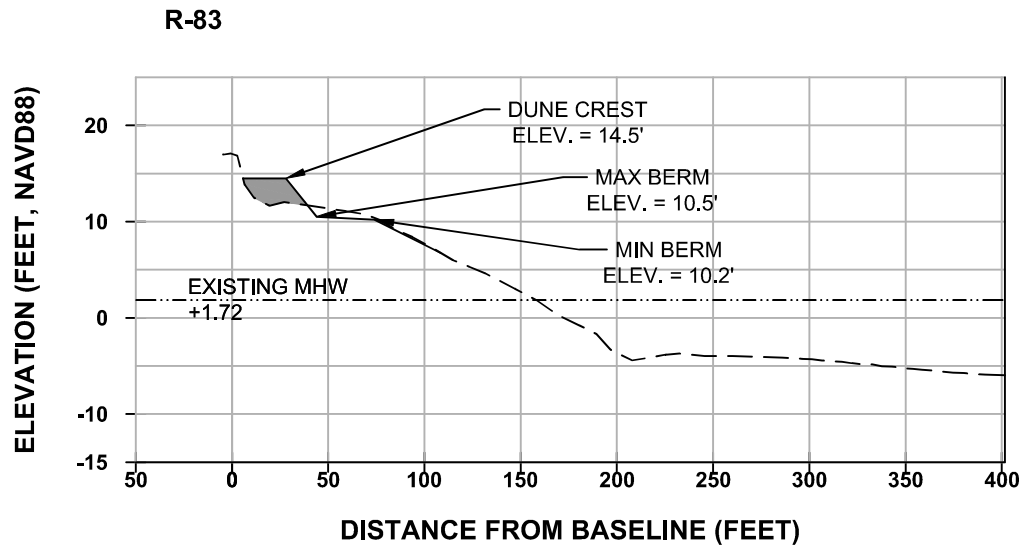
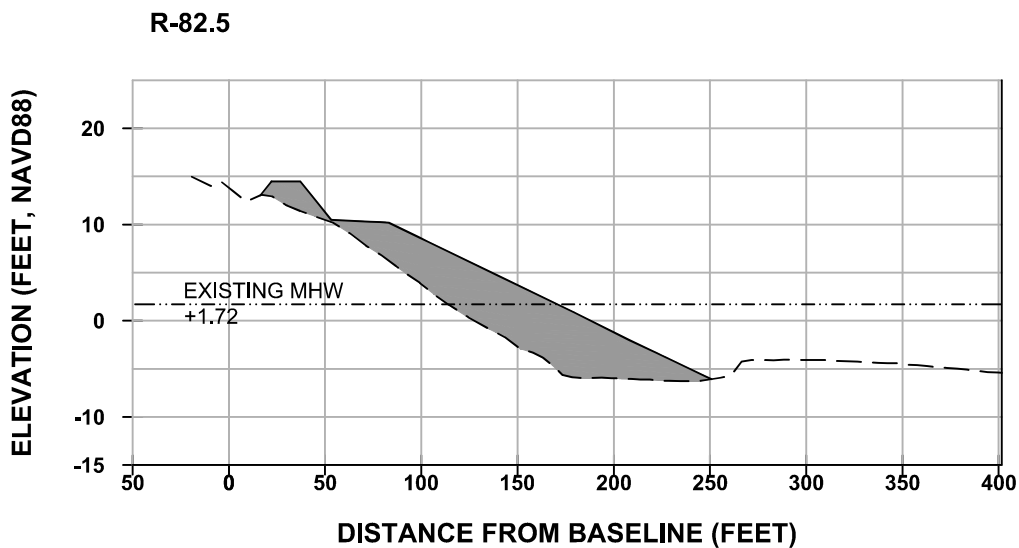
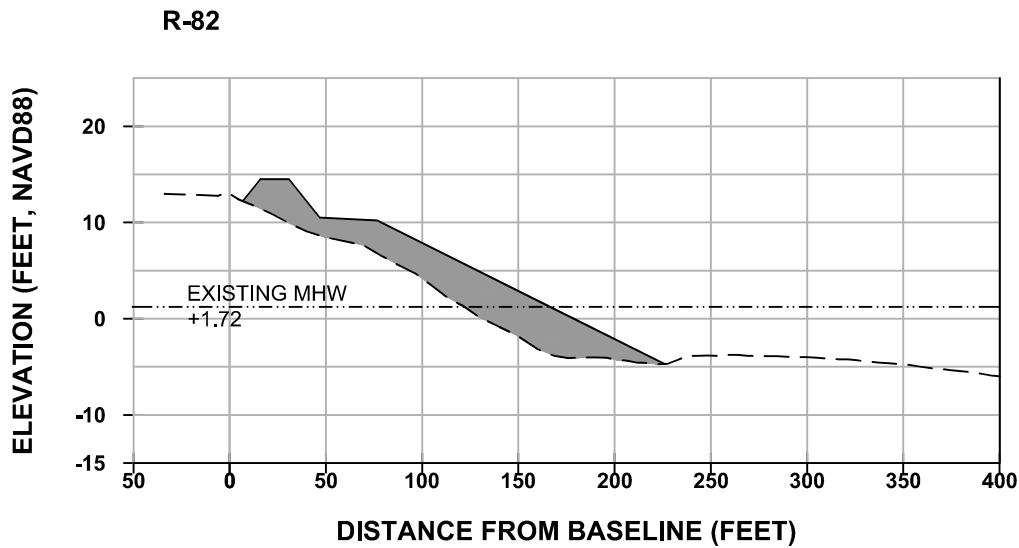
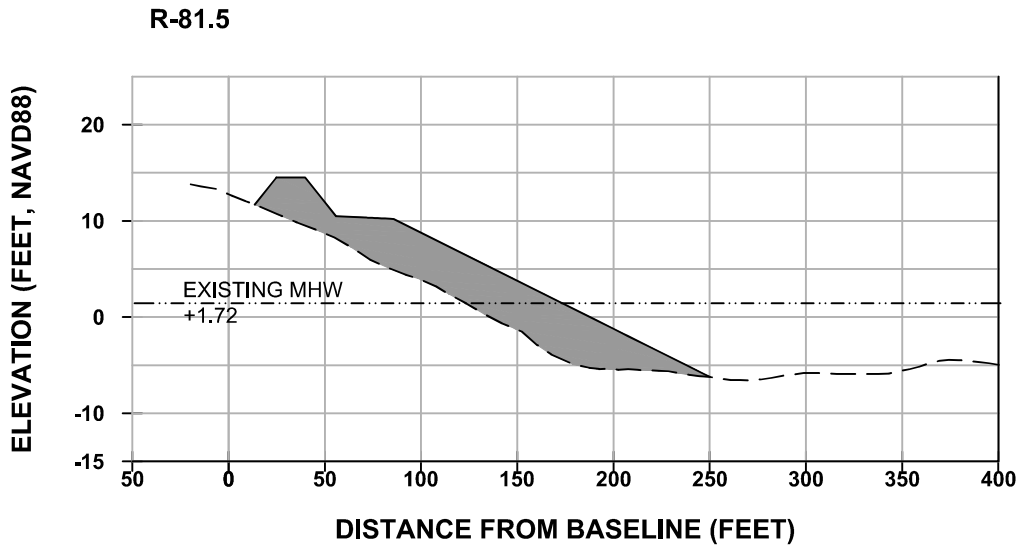
APPROVED: J

SHEET NO

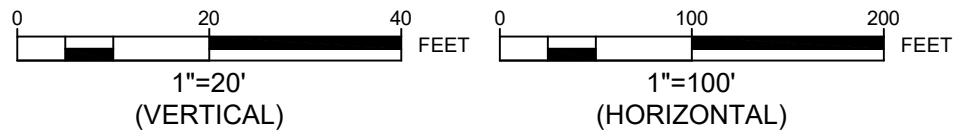
C-115

CONSTRUCTION DRAWINGS

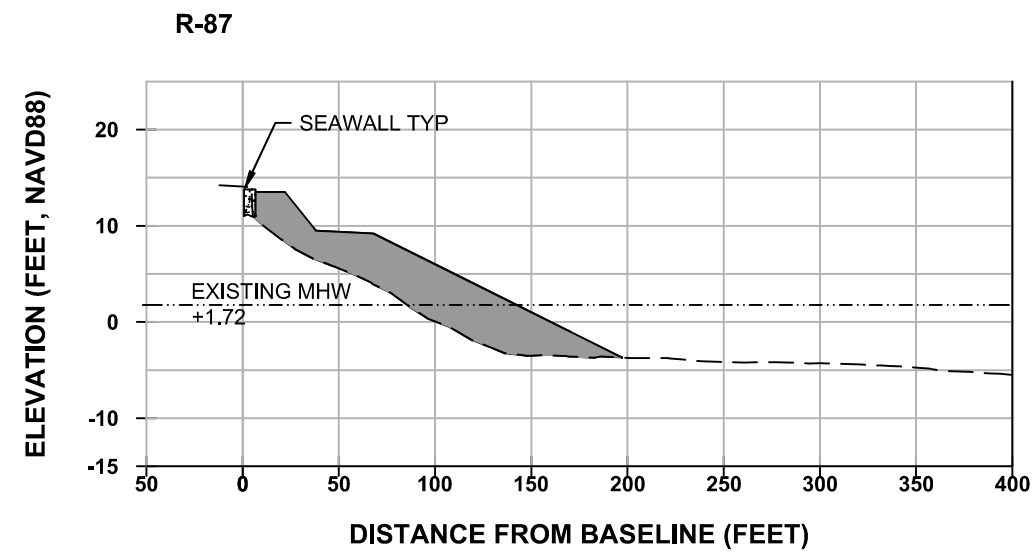
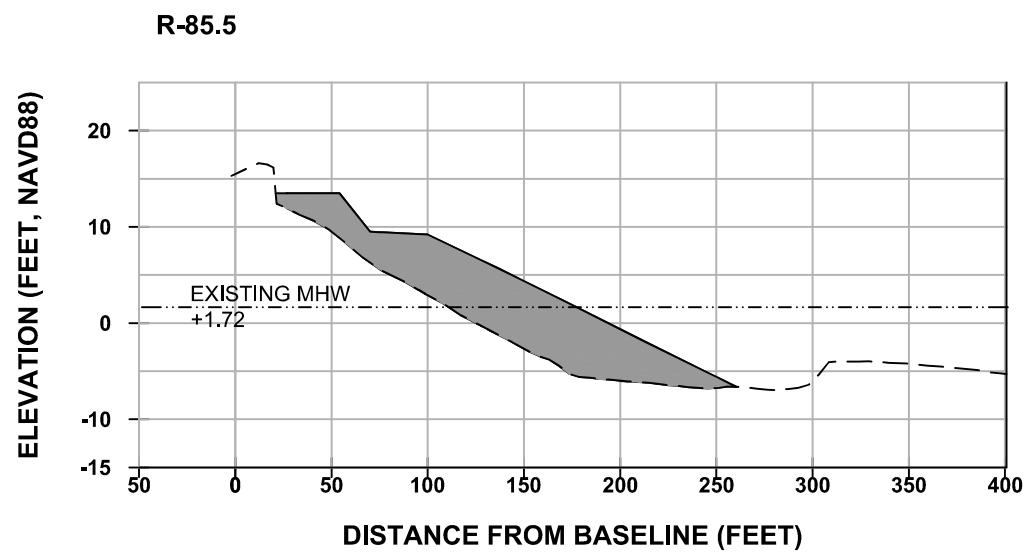
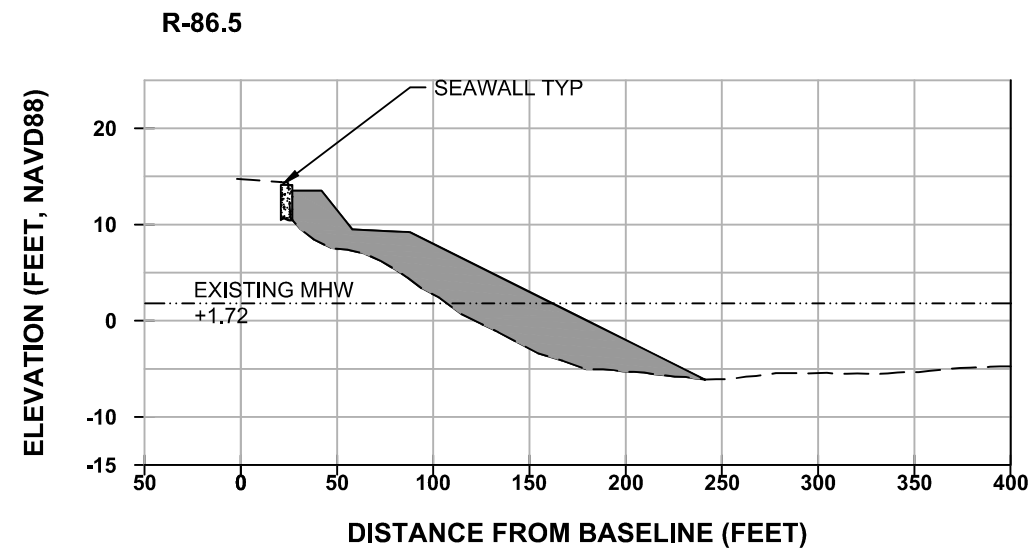
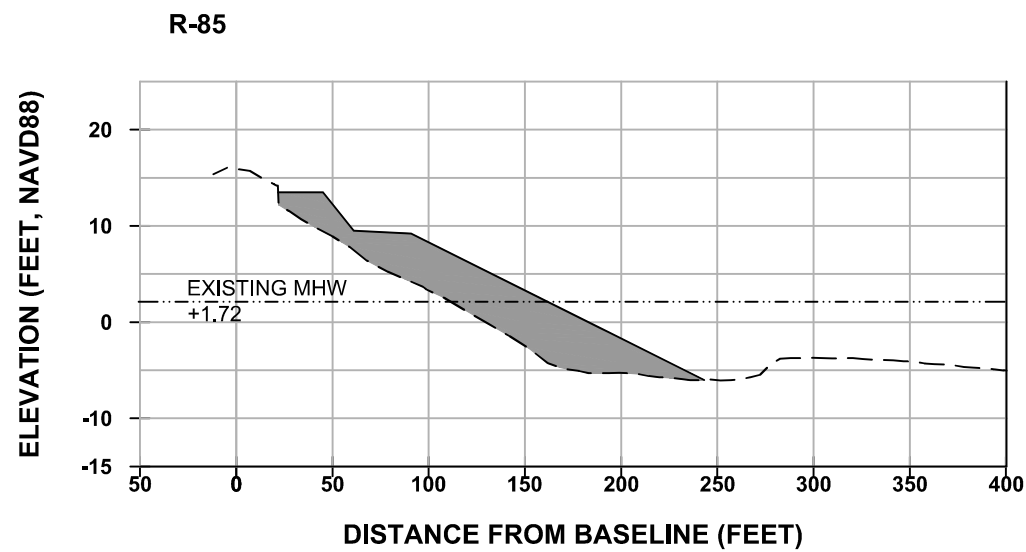
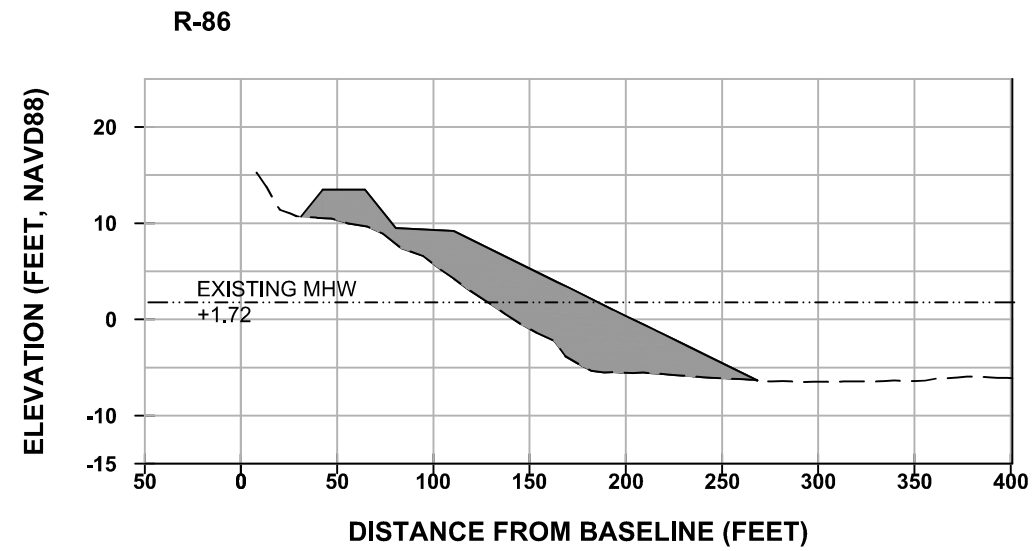
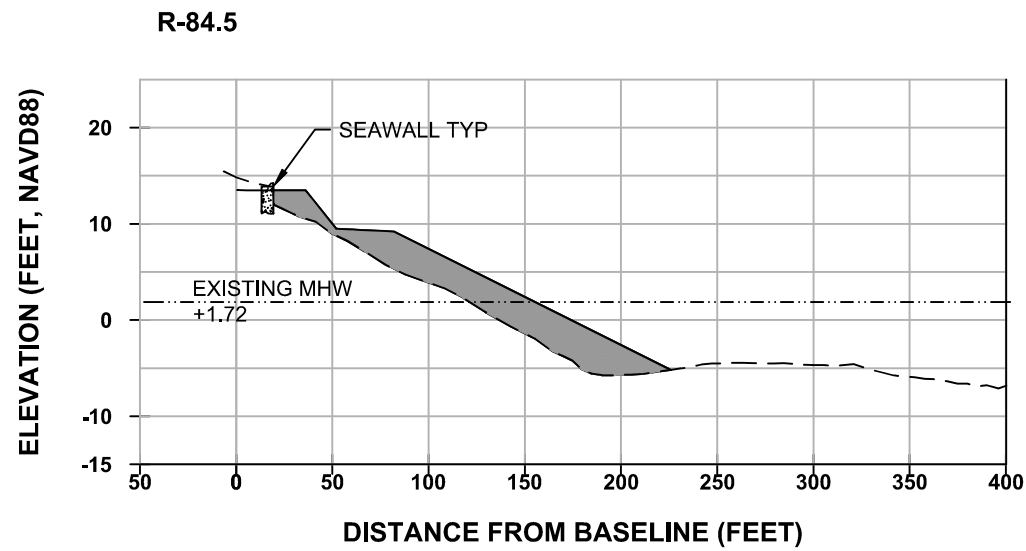
User Name: PIER9937
Drawing Name: C:\Users\pier9937\OneDrive Corp\OneDrive - Atkins Ltd\Documents\SPYCAD100 CAD/C-100 Cross Sections.dwg Feb 14, 2022 - 3:01pm



- NOTES:
1. DUNE ELEVATION GRADAULLY TRANSITIONS FROM 14.5 TO 13.5 FEET BETWEEN R-83 AND R-84.
 2. MAX BERM ELEVATION GRADUALLY TRANSITIONS FROM 10.5 TO 9.5 FEET BETWEEN R-83 AND R-84.
 3. TEMPLATE TRANSITION START AT STATION 8+400, END AT STATION 8+500.
 4. DEPTHS SHOWN DEMONSTRATE CONDITIONS EXISTING AT THE TIME OF THE DECEMBER 2021 SURVEY.

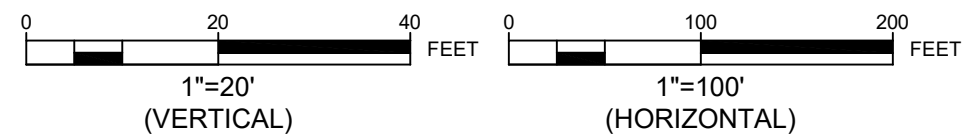


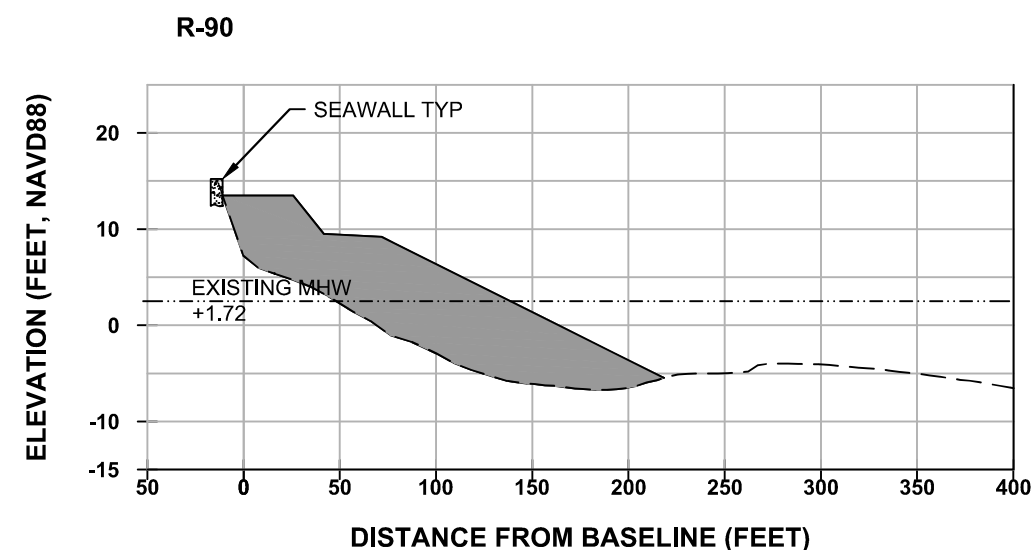
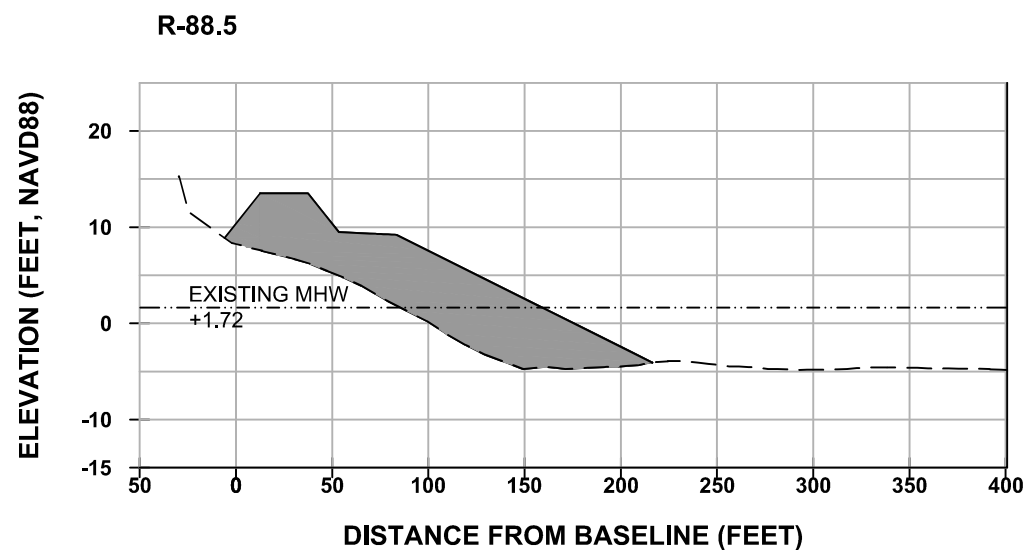
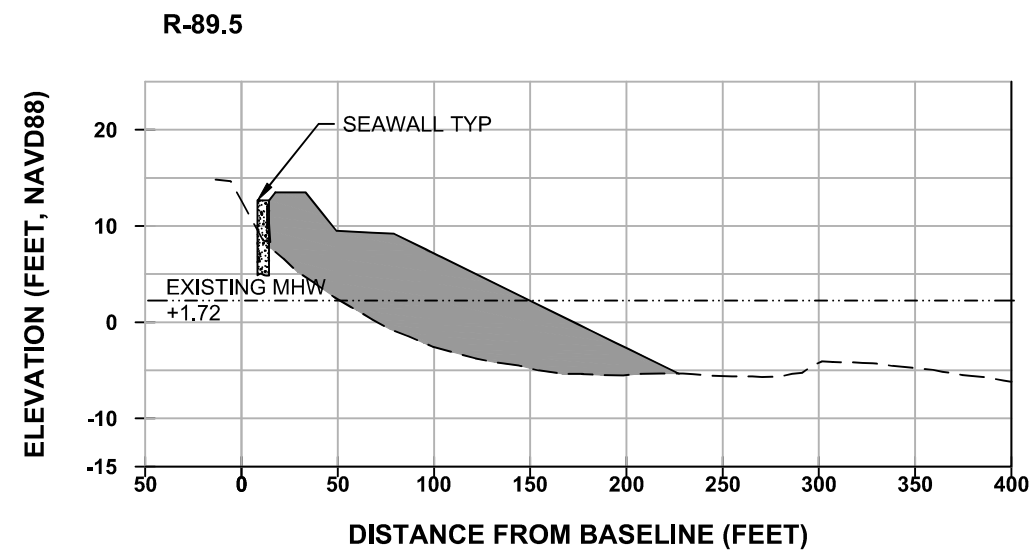
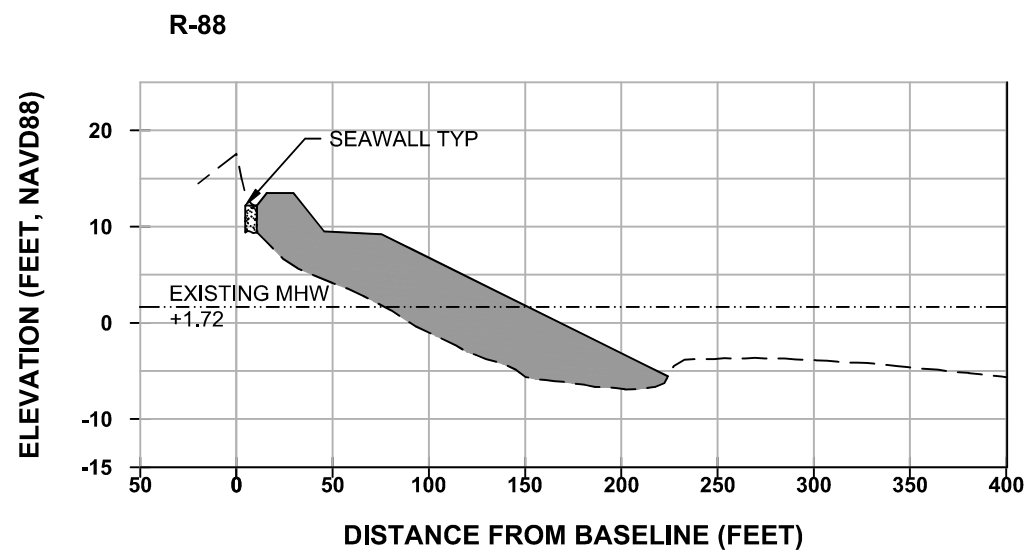
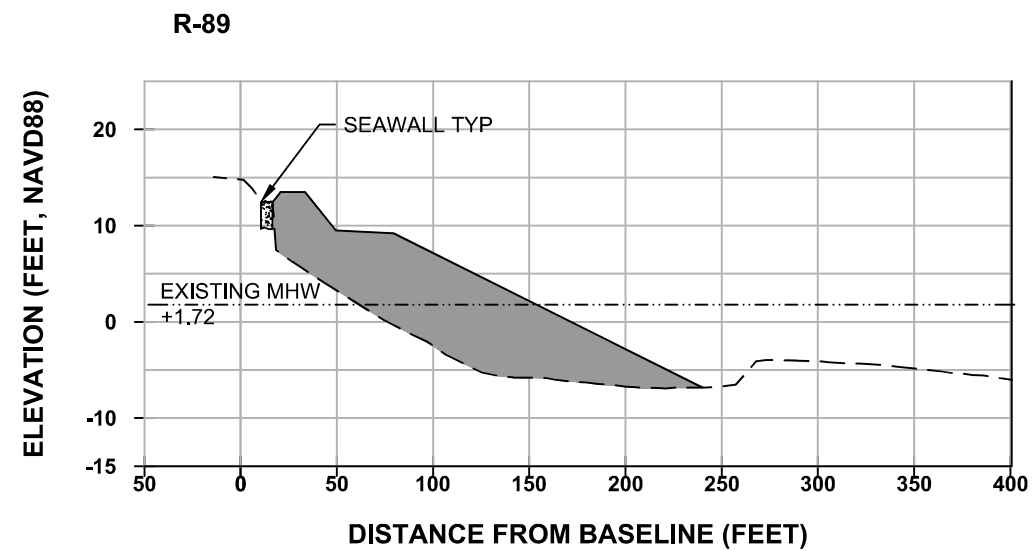
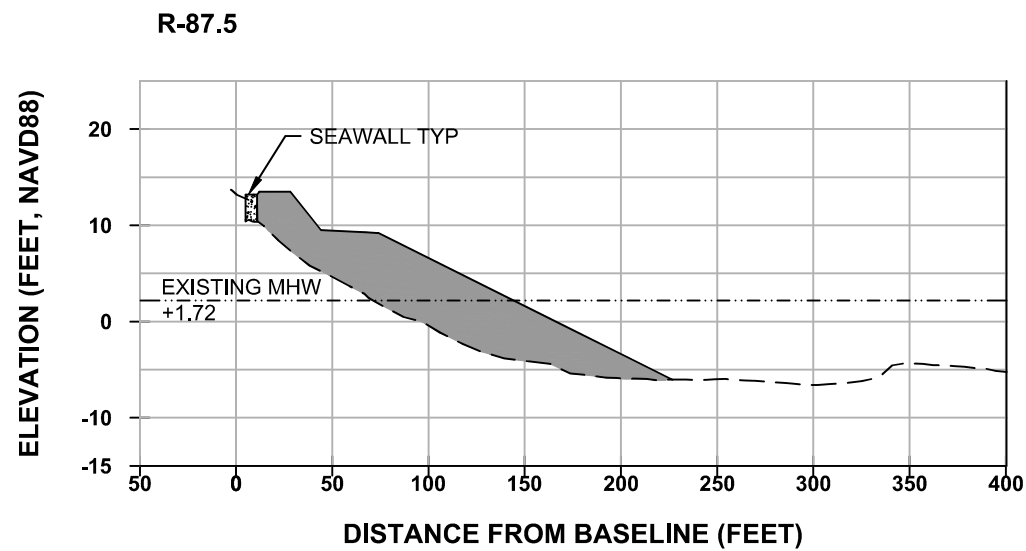
ENGINEER OF RECORD:		ELECTRONICALLY SIGNED ON COVER PAGE		ORIGINAL ISSUED DATE : 10/21/2021	
ST. JOHNS COUNTY		SOUTH PONTE VEDRA BEACH DUNE RESTORATION		BEACH PROFILES	
CLIENT		PROJECT		TITLE	
ATKINS		ATKINS		ATKINS	
JOB NO.: 100075997		DRAWN: JLP		DESIGN: JLP	
CHECKED: SLR		APPROVED: JB		SHEET NO.	
C-116					



NOTES:

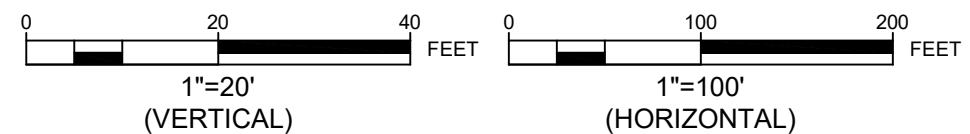
1. DEPTHS SHOWN DEMONSTRATE CONDITIONS EXISTING AT THE TIME OF THE DECEMBER 2021 SURVEY.

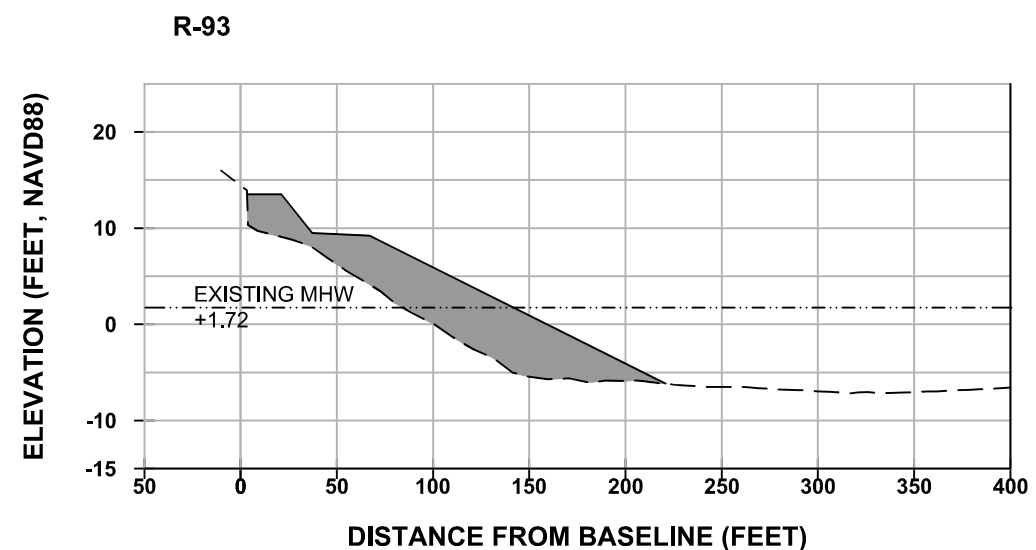
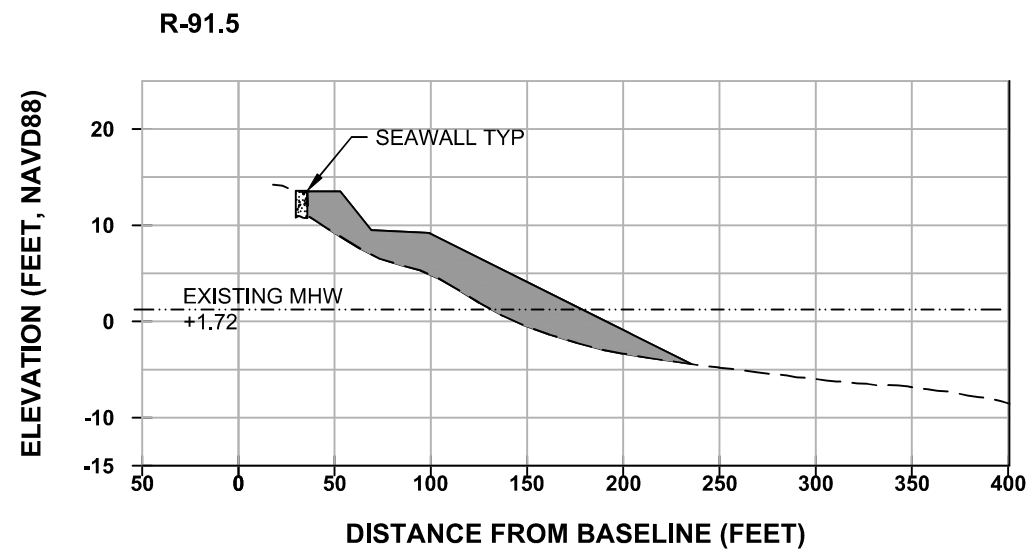
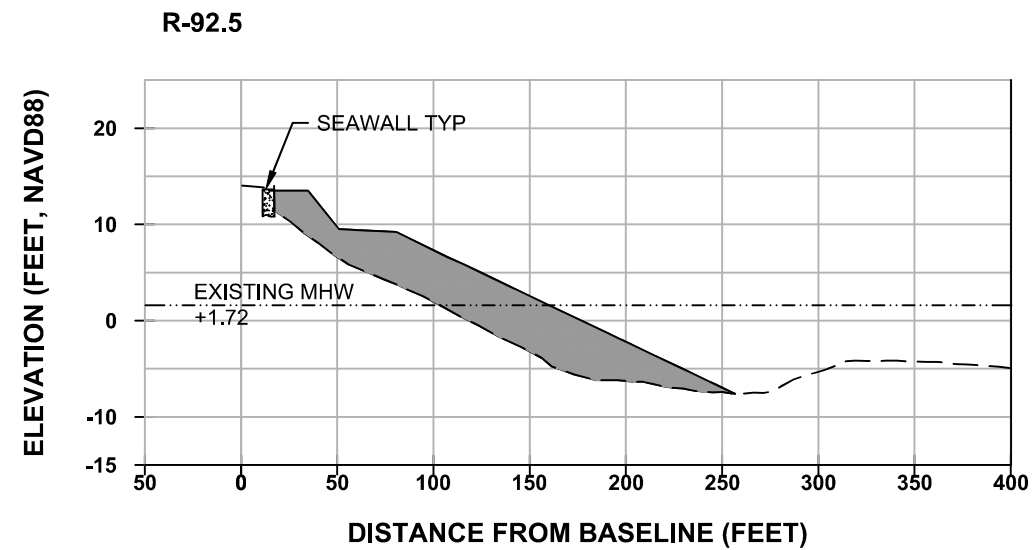
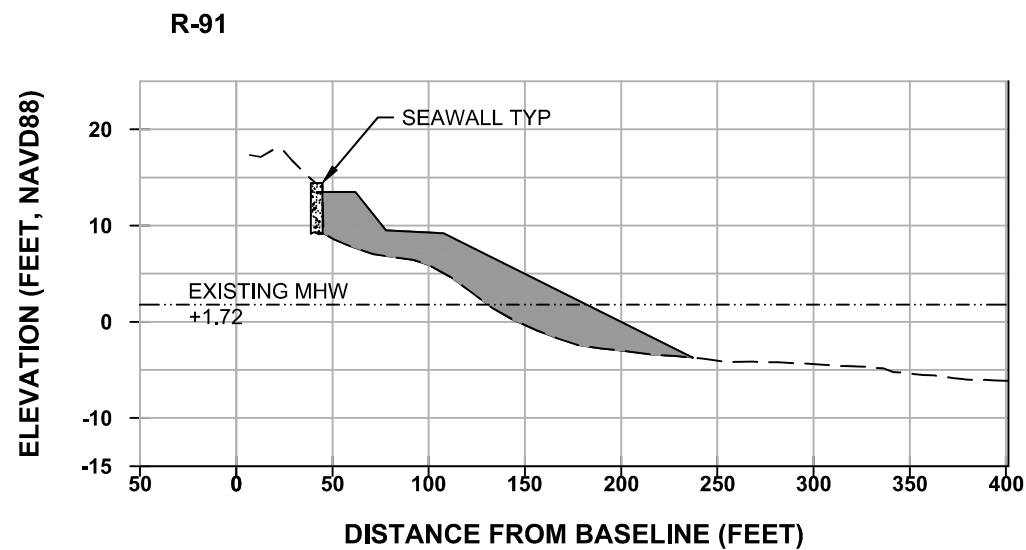
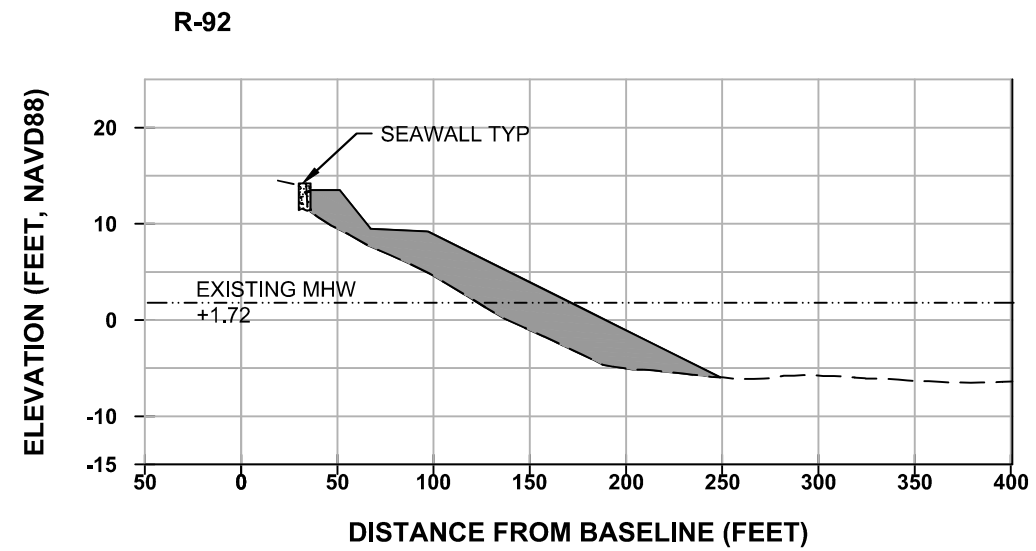
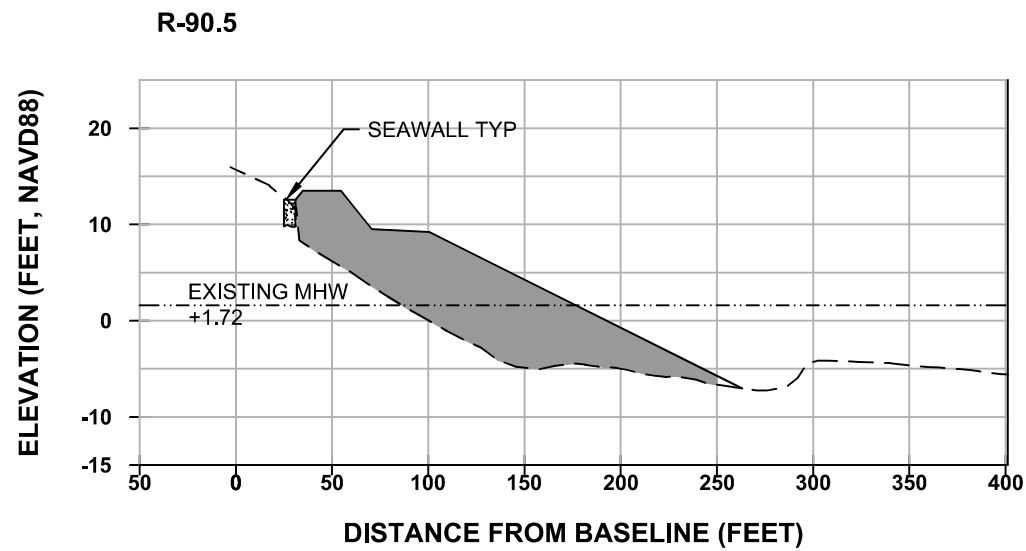
[illegible]



NOTES:

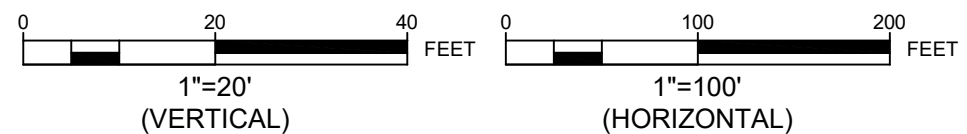
1. DEPTHS SHOWN DEMONSTRATE CONDITIONS EXISTING AT THE TIME OF THE DECEMBER 2021 SURVEY.

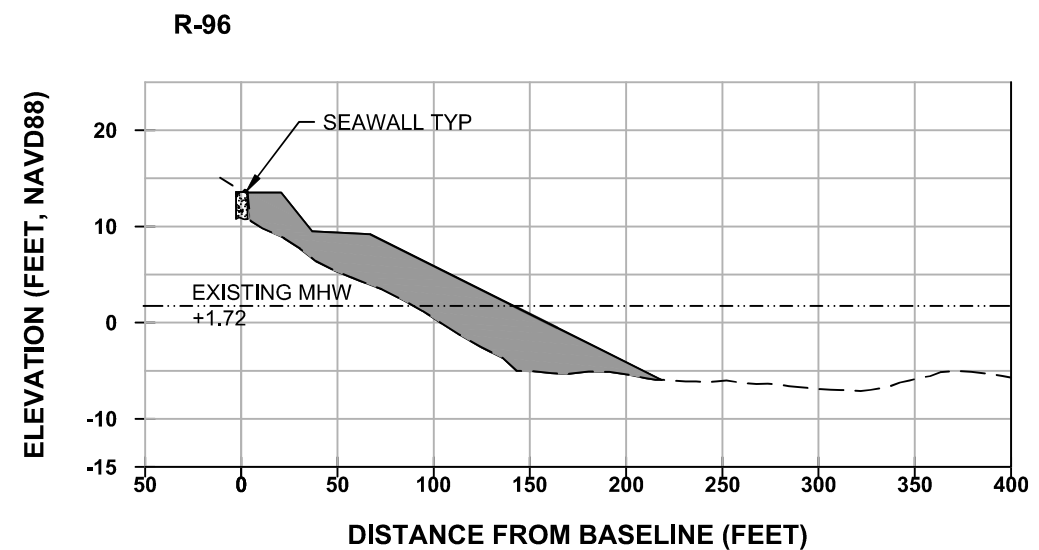
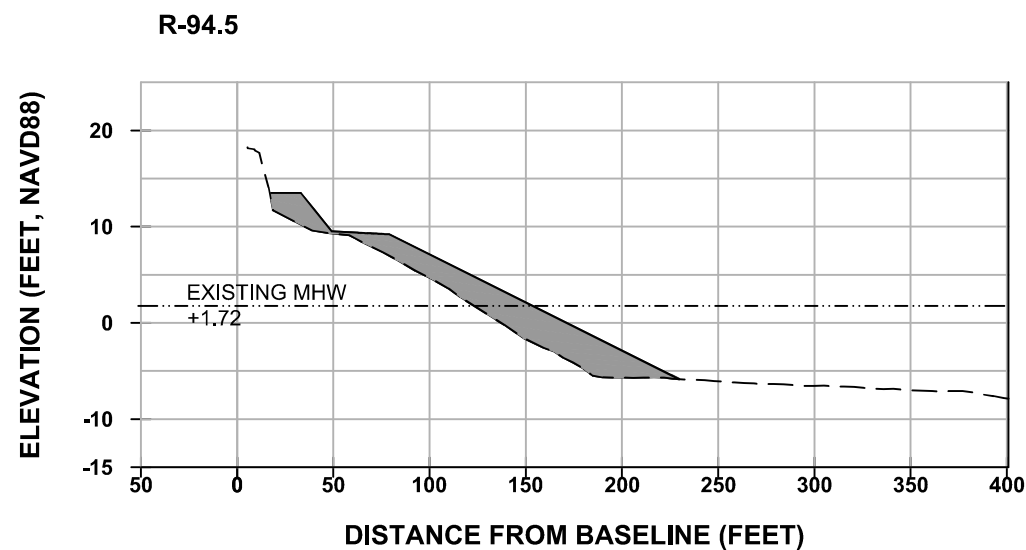
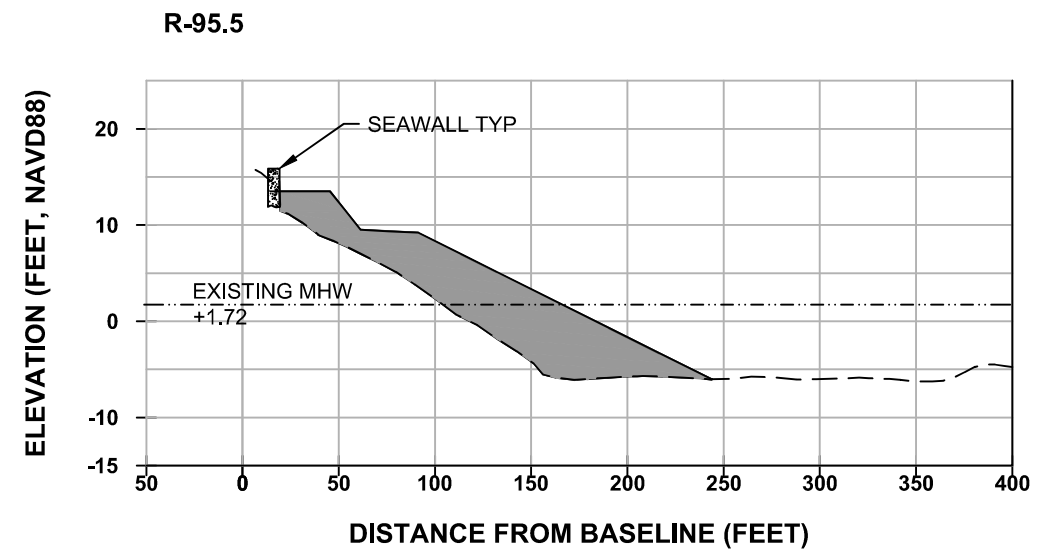
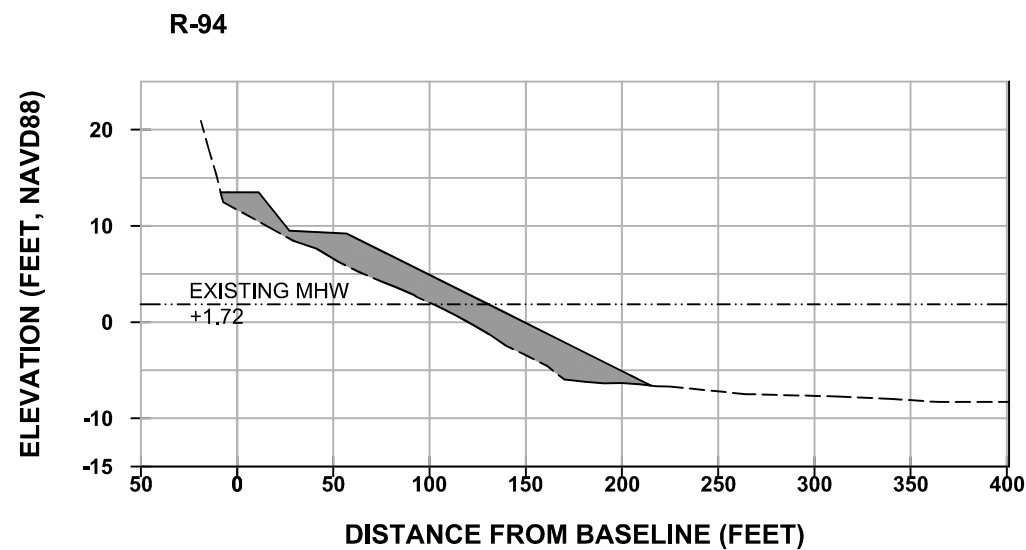
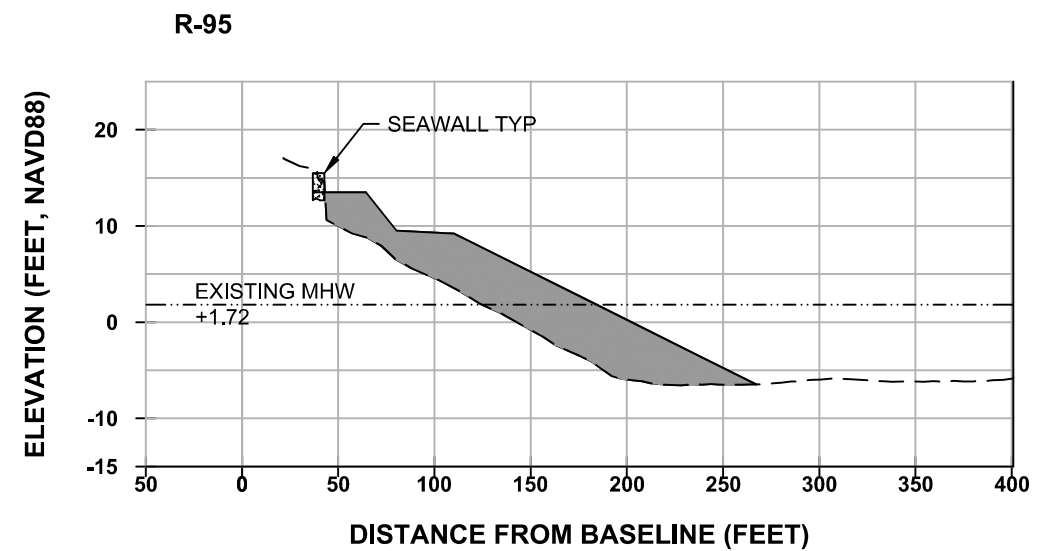
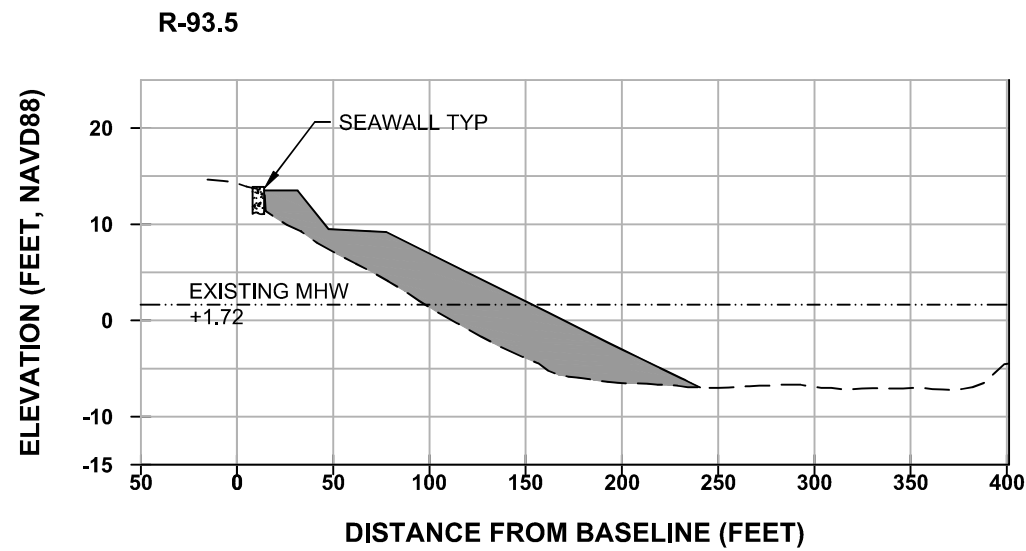
[illegible]



NOTES:

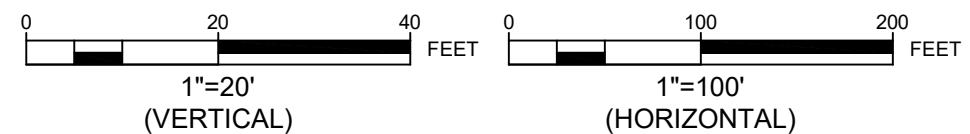
1. DEPTHS SHOWN DEMONSTRATE CONDITIONS EXISTING AT THE TIME OF THE DECEMBER 2021 SURVEY.

[illegible]



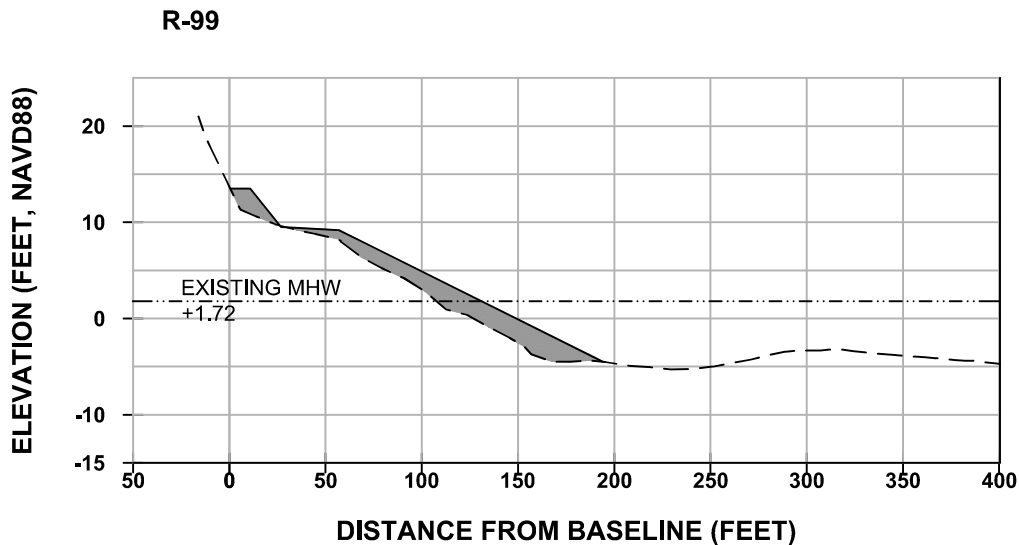
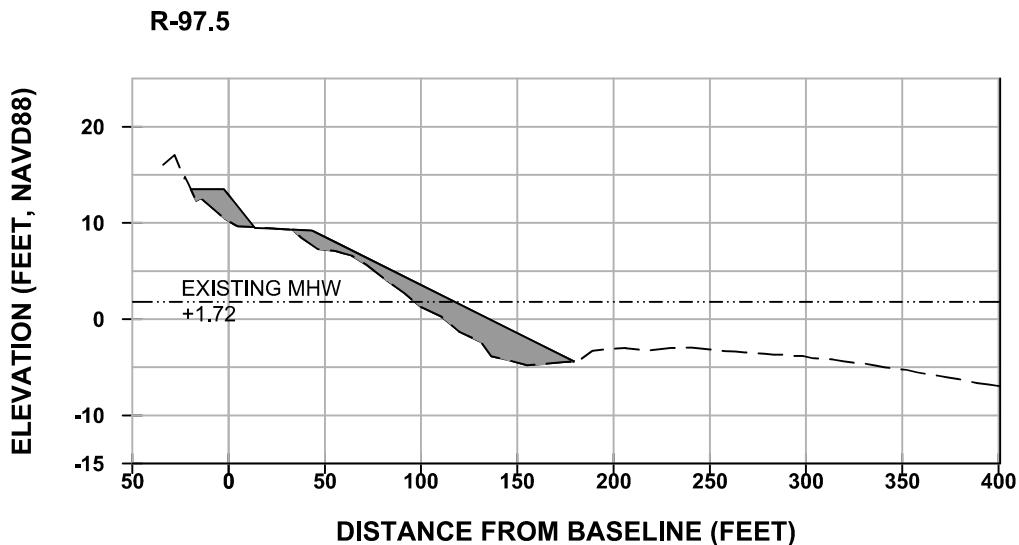
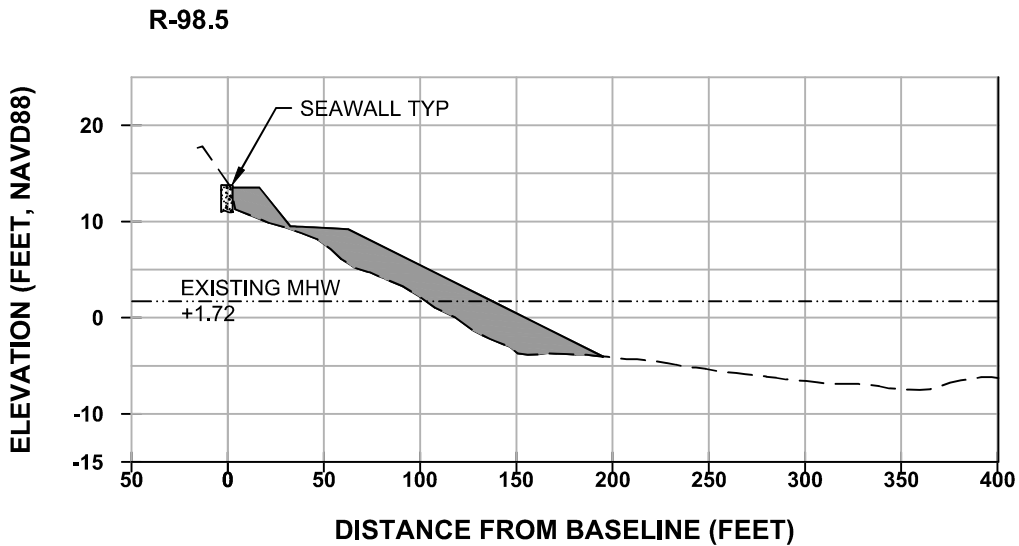
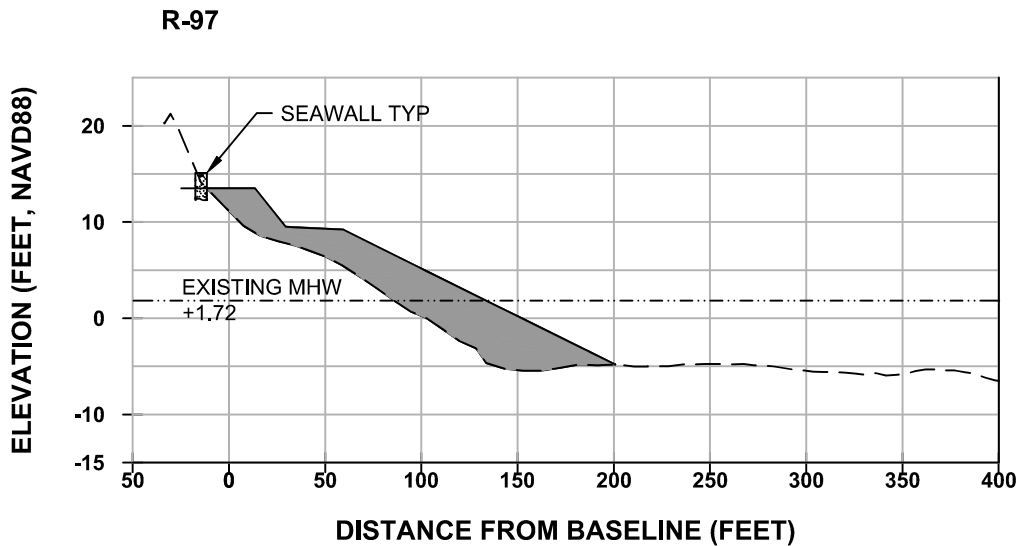
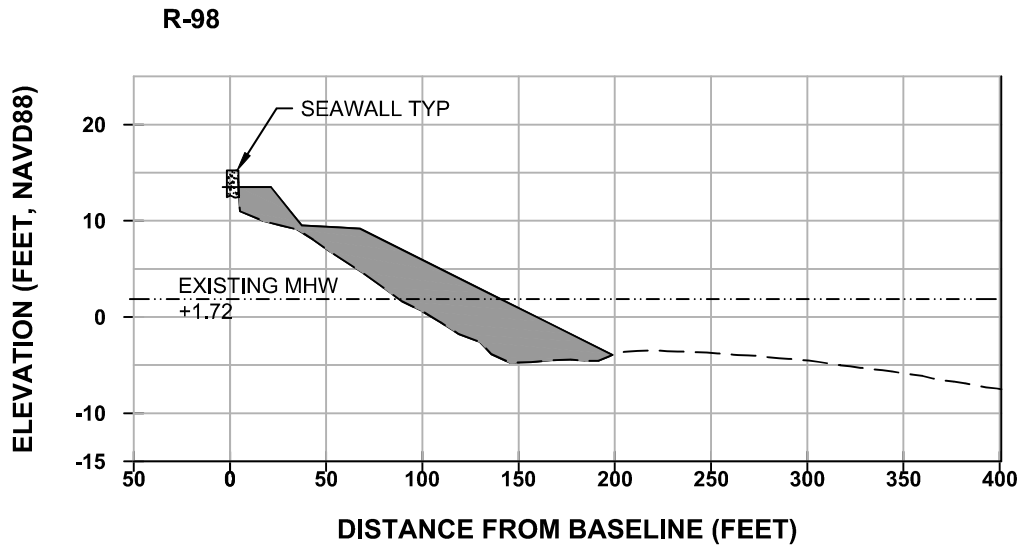
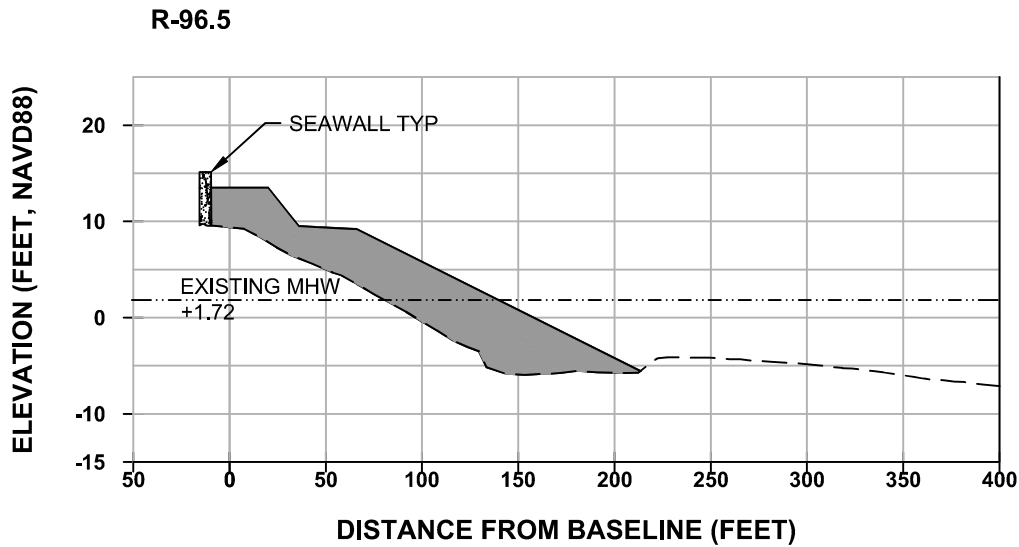
NOTES:

1. DEPTHS SHOWN DEMONSTRATE CONDITIONS EXISTING AT THE TIME OF THE DECEMBER 2021 SURVEY.

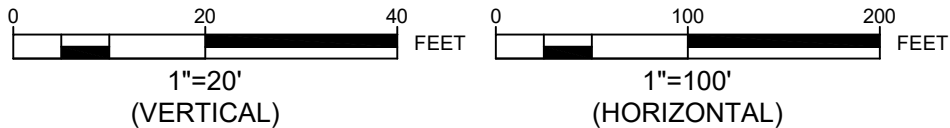


CLIENT ST. JOHNS COUNTY SOUTH PONTE VEDRA BEACH DUNE RESTORATION BEACH PROFILES	PROJECT TITLE	NOTICE: THE INFORMATION IN THIS DOCUMENT WAS PREPARED BY AN ELECTRONIC MEANS. IT IS THE USER'S RESPONSIBILITY TO ASSURE THE ACCURACY OF THE INFORMATION CONTAINED IN THIS DOCUMENT. IT CANNOT GUARANTEE THAT CHANGES OR ALTERATIONS TO THE INFORMATION WILL BE REFLECTED IN THIS DOCUMENT. OTHER THAN ATKINS' PERSONNEL, AFTER THE INFORMATION HAS BEEN TRANSMITTED TO THE USER, ANY ALTERATIONS MAY BE SAFETY RELATED AND RESULT IN DAMAGE TO PROPERTY, PERSONAL INJURY OR DEATH. IF VERIFICATION OF THE INFORMATION IS REQUIRED, THE USER SHOULD BE ADVISED THAT NEEDED CONTACT SHOULD BE MADE DIRECTLY WITH ATKINS. ANY INFORMATION CONTAINED HEREIN IS UNCLASSIFIED, UNLESS OTHERWISE INDICATED. IT IS THE USER'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMISSIONS TO REPRODUCE OR TRANSMIT THIS INFORMATION. ANY ALTERATIONS OR MODIFICATIONS HAVE BEEN MADE TO THE DOCUMENT AND ARE NOT REFLECTED IN THIS DOCUMENT. THE DOCUMENTATION TRANSMITTED OR REVIEWED BY COMPUTER OR OTHER ELECTRONIC MEANS UNLESS IT IS FIRST COMPARED TO THE ORIGINAL DOCUMENTATION. THE USER SHOULD BE IMPLIED, CONCERNING THE ACCURACY OF THE INFORMATION TRANSMITTED OR REVIEWED BY COMPUTER OR OTHER ELECTRONIC MEANS.	C		B	D	m	T	G
			ENGINEER OF RECORD:						
			ELECTRONICALLY SIGNED ON COVER PAGE						
			DATE: 10/21/2021						
			ORIGINAL ISSUED DATE : 10/21/2021						
			REV						
			DATE						
			DESCRIPTION						

User Name: PIER9037
Drawing Name: C:\Users\pie9037\OneDrive - Atkins Ltd\Documents\SP\CAD\100 CAD\C-100 Cross Sections.dwg
Feb 14, 2022 - 3:01pm



NOTES:
1. DEPTHS SHOWN DEMONSTRATE CONDITIONS EXISTING AT THE TIME OF THE DECEMBER 2021 SURVEY.



REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
71		
72		
73		
74		
75		
76		
77		
78		
79		
80		
81		
82		
83		
84		
85		
86		
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
99		
100		
101		
102		
103		
104		
105		
106		
107		
108		
109		
110		
111		
112		
113		
114		
115		
116		
117		
118		
119		
120		
121		
122		
123		
124		
125		
126		
127		
128		
129		
130		
131		
132		
133		
134		
135		
136		
137		
138		
139		
140		
141		
142		
143		
144		
145		
146		
147		
148		
149		
150		
151		
152		
153		
154		
155		
156		
157		
158		
159		
160		
161		
162		
163		
164		
165		
166		
167		
168		
169		
170		
171		
172		
173		
174		
175		
176		
177		
178		
179		
180		
181		
182		
183		
184		
185		
186		
187		
188		
189		
190		
191		
192		
193		
194		
195		
196		
197		
198		
199		
200		
201		
202		
203		
204		
205		
206		
207		
208		
209		
210		
211		
212		
213		
214		
215		
216		
217		
218		
219		
220		
221		
222		
223		
224		
225		
226		
227		
228		
229		
230		
231		
232		
233		
234		
235		
236		
237		
238		
239		
240		
241		
242		
243		
244		
245		
246		
247		
248		
249		
250		
251		
252		
253		
254		
255		
256		
257		
258		
259		
260		
261		
262		
263		
264		
265		
266		
267		
268		
269		
270		
271		
272		
273		
274		
275		
276		
277		
278		
279		
280		
281		
282		
283		
284		
285		
286		
287		
288		
289		
290		
291		
292		
293		
294		
295		
296		
297		
298		
299		
300		
301		
302		
303		
304		
305		
306		
307		
308		
309		
310		
311		
312		
313		
314		
315		
316		
317		
318		
319		
320		
321		
322		
323		
324		
325		
326		
327		
328		
329		
330		
331		
332		
333		
334		
335		
336		
337		
338		
339		
340		
341		
342		
343		
344		
345		
346		
347		
348		
349		
350		
351		
352		
353		
354		
355		
356		
357		
358		
359		
360		
361		
362		
363		
364		
365		
366		
367		
368		
369		
370		
371		
372		
373		
374		
375		
376		
377		
378		
379		
380		
381		
382		
383		
384		
385		
386		
387		
388		
389		
390		
391		
392		
393		
394		
395		
396		
397		
398		
399		
400		

ENGINEER OF RECORD:
**ELECTRONICALLY
SIGNED ON
COVER PAGE**

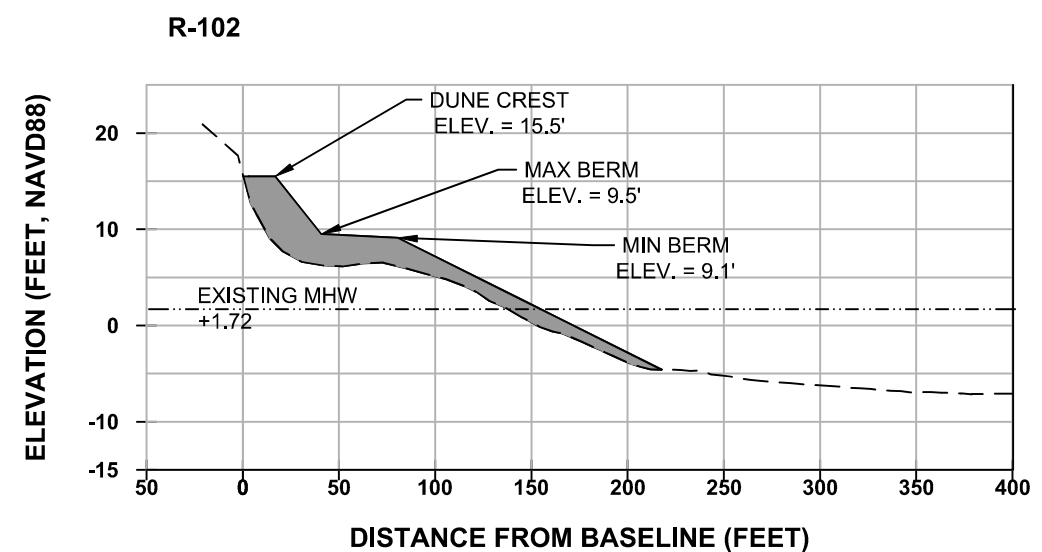
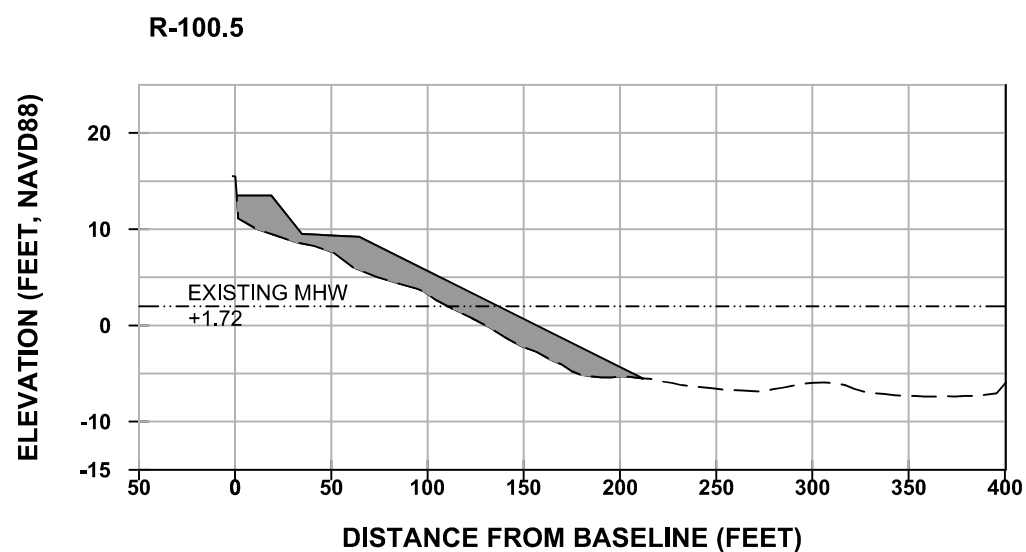
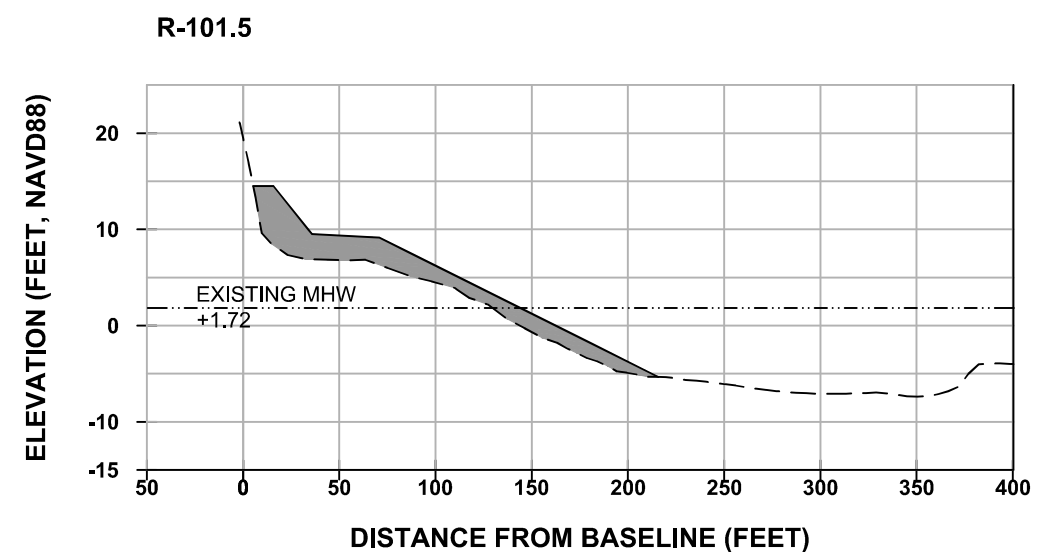
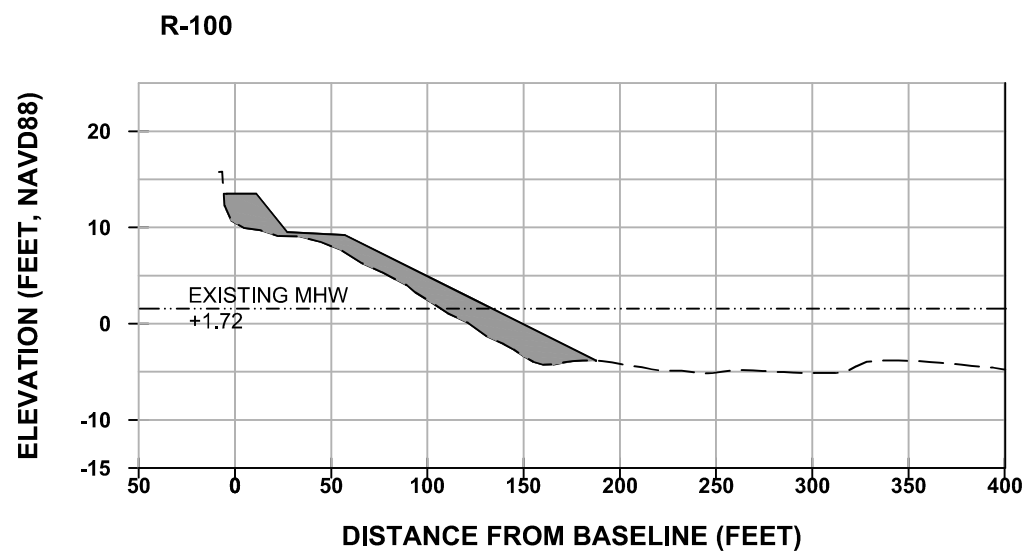
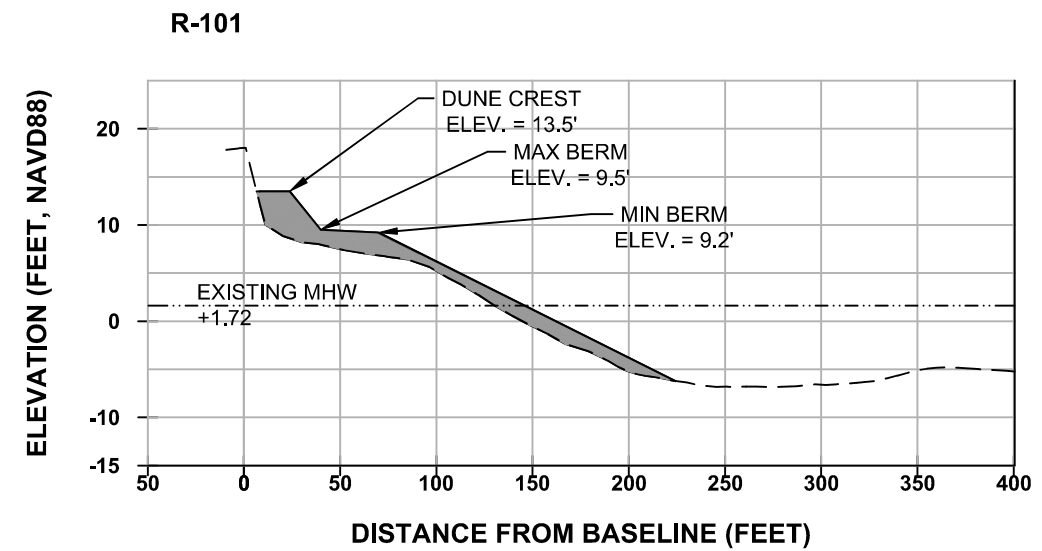
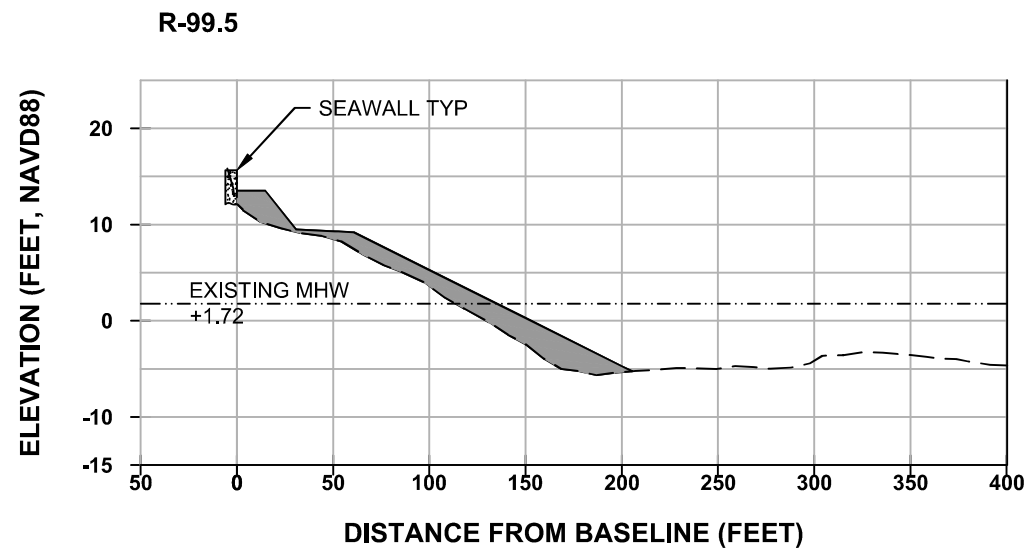
DATE: 10/21/2021
ORIGINAL ISSUED DATE: 10/21/2021

NOTICE: INFORMATION IN THIS DOCUMENT WAS PREPARED BY
ATKINS, INC. WHILE ATKINS HAS TAKEN ALL REASONABLE STEPS
TO ENSURE THE ACCURACY OF THE INFORMATION CONTAINED
HEREIN, IT DOES NOT WARRANT THE ACCURACY OF THE
INFORMATION. THE INFORMATION IS PROVIDED "AS IS" WITHOUT
WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE,
AND NON-INFRINGEMENT. THE INFORMATION IS NOT TO BE
USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT
WAS PREPARED. THE INFORMATION IS NOT TO BE
REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY
MEANS, ELECTRONIC OR MECHANICAL, INCLUDING
PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION
STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION
IN WRITING FROM ATKINS, INC. THE INFORMATION IS
NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT
FOR WHICH IT WAS PREPARED. THE INFORMATION IS
NOT TO BE REPRODUCED OR TRANSMITTED IN ANY
FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL,
INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY
INFORMATION STORAGE AND RETRIEVAL SYSTEM,
WITHOUT PERMISSION IN WRITING FROM ATKINS, INC.

CLIENT: ST. JOHNS COUNTY
PROJECT: SOUTH PONTE VEDRA
BEACH DUNE RESTORATION
TITLE: BEACH PROFILES

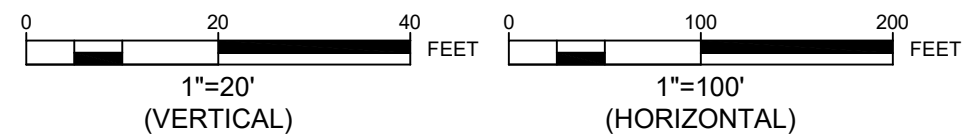
ATKINS
8311 SIX ELLIS TRAIL,
SUITE 100
JACKSONVILLE, FL 32256
TEL: 904.363.6100
WWW.ATKINSGLOBAL.COM
JOB NO.: 100075997
DRAWN: JLP
DESIGN: JLP
CHECKED: SLR
APPROVED: JB
SHEET NO. C-121

CONSTRUCTION DRAWINGS



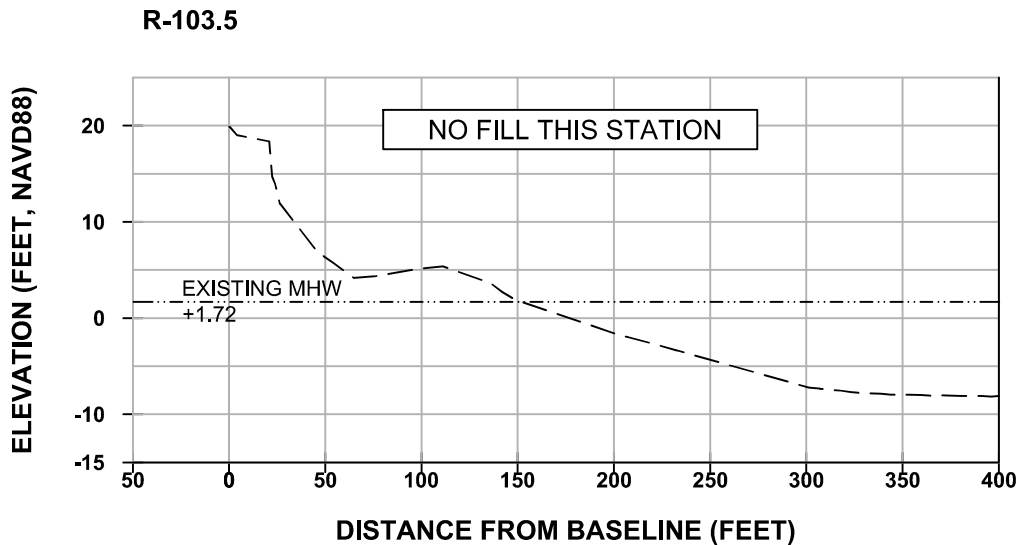
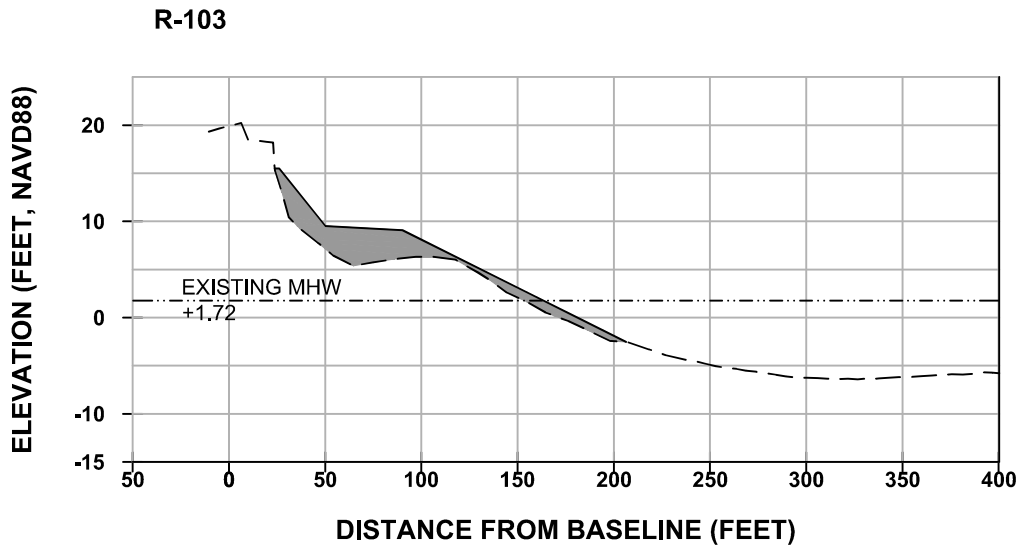
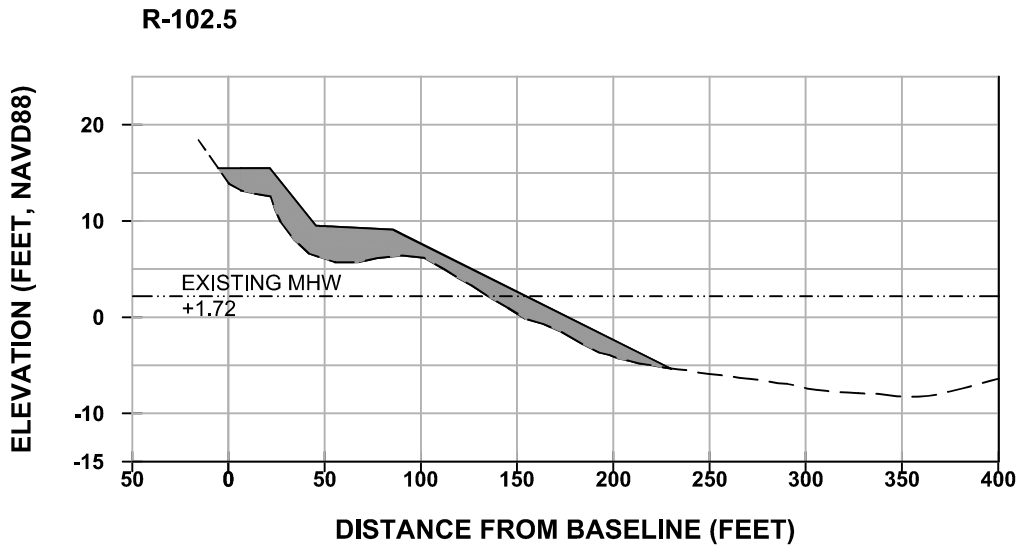
NOTES:

1. DUNE ELEVATION GRADUALLY TRANSITIONS FROM 13.5 TO 15.5 FEET BETWEEN R-101 AND R-102.
2. WIDTH OF BERM GRADUALLY TRANSITIONS FROM 30 TO 40 FEET BETWEEN R-101 AND R-102.
3. TEMPLATE TRANSITION START AT STATION 26+500, END AT STATION 26+600.
4. DEPTHS SHOWN DEMONSTRATE CONDITIONS EXISTING AT THE TIME OF THE DECEMBER 2021 SURVEY.

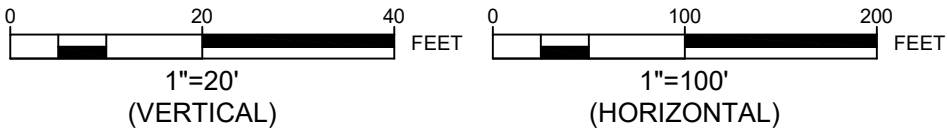


CLIENT		C		B		A	
ST. JOHNS COUNTY		SOUTH PONTE VEDRA BEACH DUNE RESTORATION		BEACH PROFILES		ATKINS	
PROJECT		TITLE		JOB NO.: 100075997		DRAWN: JLP	
				DESIGN: JLP		CHECKED: SLR	
				APPROVED: JB		SHEET NO.	
				C-122		C-122	
NOTICE: THE INFORMATION IN THIS DOCUMENT WAS PREPARED BY THE ENGINEER OR ENGINEER-IN-CHARGE FOR THE CLIENT AND IS NOT TO BE USED FOR ANY OTHER PURPOSE. THE ENGINEER OR ENGINEER-IN-CHARGE DOES NOT WARRANT THE ACCURACY OF THE INFORMATION CONTAINED IN THIS DOCUMENT. IT CANNOT GUARANTEE THAT CHANGES OR ADDITIONS TO THE INFORMATION CONTAINED IN THIS DOCUMENT WILL BE MADE BY THE ENGINEER OR ENGINEER-IN-CHARGE. THE ENGINEER OR ENGINEER-IN-CHARGE DOES NOT WARRANT THE ACCURACY OF THE INFORMATION CONTAINED IN THIS DOCUMENT. IT CANNOT GUARANTEE THAT CHANGES OR ADDITIONS TO THE INFORMATION CONTAINED IN THIS DOCUMENT WILL BE MADE BY THE ENGINEER OR ENGINEER-IN-CHARGE. THE ENGINEER OR ENGINEER-IN-CHARGE DOES NOT WARRANT THE ACCURACY OF THE INFORMATION CONTAINED IN THIS DOCUMENT. IT CANNOT GUARANTEE THAT CHANGES OR ADDITIONS TO THE INFORMATION CONTAINED IN THIS DOCUMENT WILL BE MADE BY THE ENGINEER OR ENGINEER-IN-CHARGE.		DATE: 10/21/2021		ORIGINAL ISSUED DATE: 10/21/2021		G	

User Name: PIER9037
Drawing Name: C:\Users\pie9037\OneDrive - Atkins Ltd\Documents\SP\CAD\100 CAD\C-100 Cross Sections.dwg
Feb 14, 2022 - 3:01pm



- NOTES:
1. DEPTHS SHOWN DEMONSTRATE CONDITIONS EXISTING AT THE TIME OF THE DECEMBER 2021 SURVEY.



ATKINS

8331 DIX ELLIS TRAIL,
SUITE 100
JACKSONVILLE, FL 32256
TEL: 904.363.6100

WWW.ATKINSGLOBAL.COM

JOB NO.: 100075997
DRAWN: JLP
DESIGN: JLP
CHECKED: SLR
APPROVED: JB
SHEET NO.

C-123

CLIENT
ST. JOHNS COUNTY

PROJECT
**SOUTH PONTE VEDRA
BEACH DUNE RESTORATION**

TITLE
BEACH PROFILES

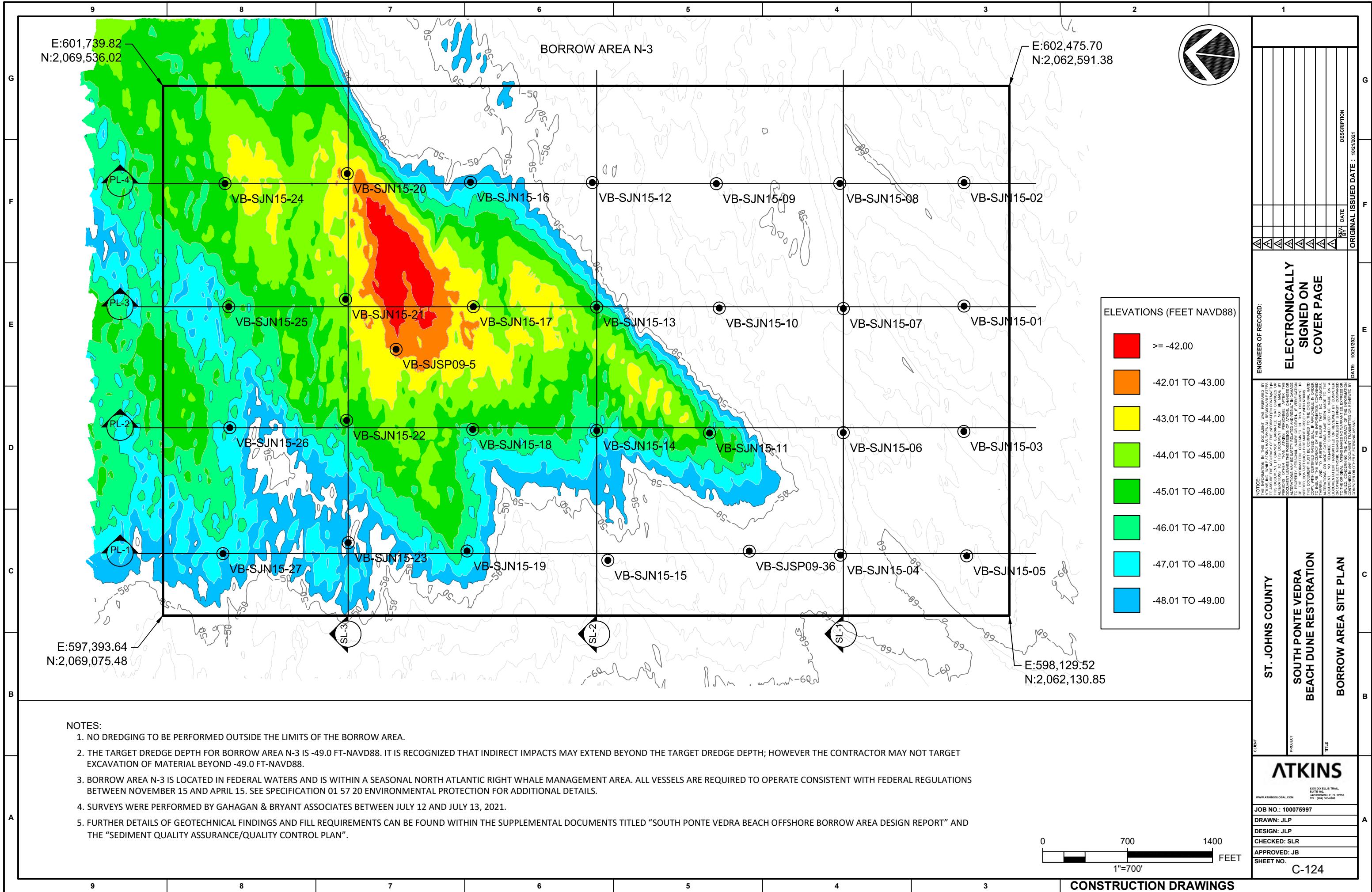
NOTICE: THE INFORMATION IN THIS DOCUMENT WAS PREPARED BY ATKINS, INC. WHILE ATKINS HAS TAKEN ALL REASONABLE STEPS TO ENSURE THE ACCURACY OF THE INFORMATION CONTAINED HEREIN, IT DOES NOT WARRANT THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. THE DOCUMENT IT CANNOT GUARANTEE THAT CHANGES OR ALTERATIONS TO THIS DOCUMENT WILL NOT BE MADE. IT IS THE RESPONSIBILITY OF THE USER TO VERIFY THE INFORMATION CONTAINED HEREIN. THE USER'S USE OF THE INFORMATION CONTAINED HEREIN IS AT THEIR OWN RISK. THE USER'S USE OF THE INFORMATION CONTAINED HEREIN IS NOT A WARRANTY OF ANY KIND. THE USER'S USE OF THE INFORMATION CONTAINED HEREIN IS NOT A WARRANTY OF ANY KIND. THE USER'S USE OF THE INFORMATION CONTAINED HEREIN IS NOT A WARRANTY OF ANY KIND.

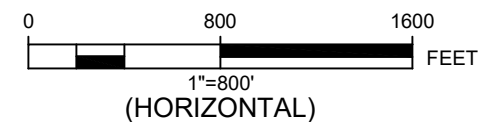
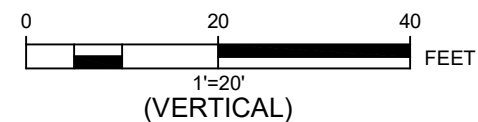
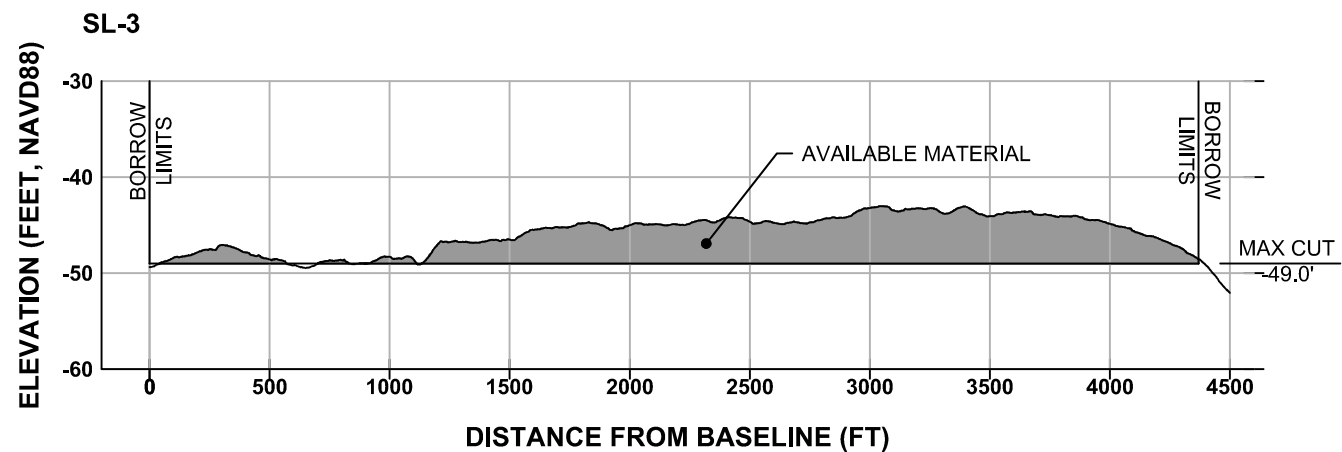
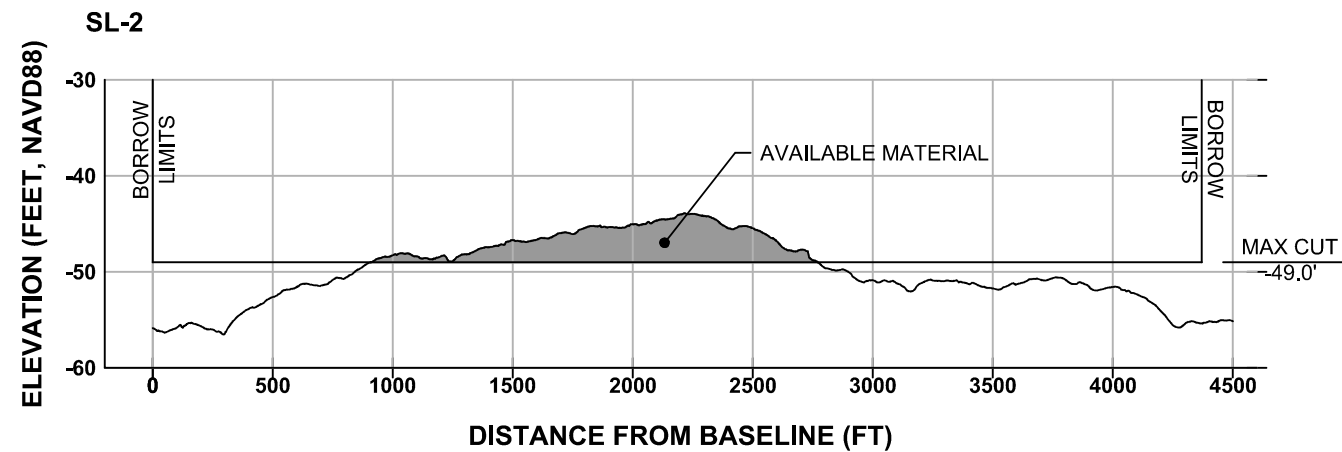
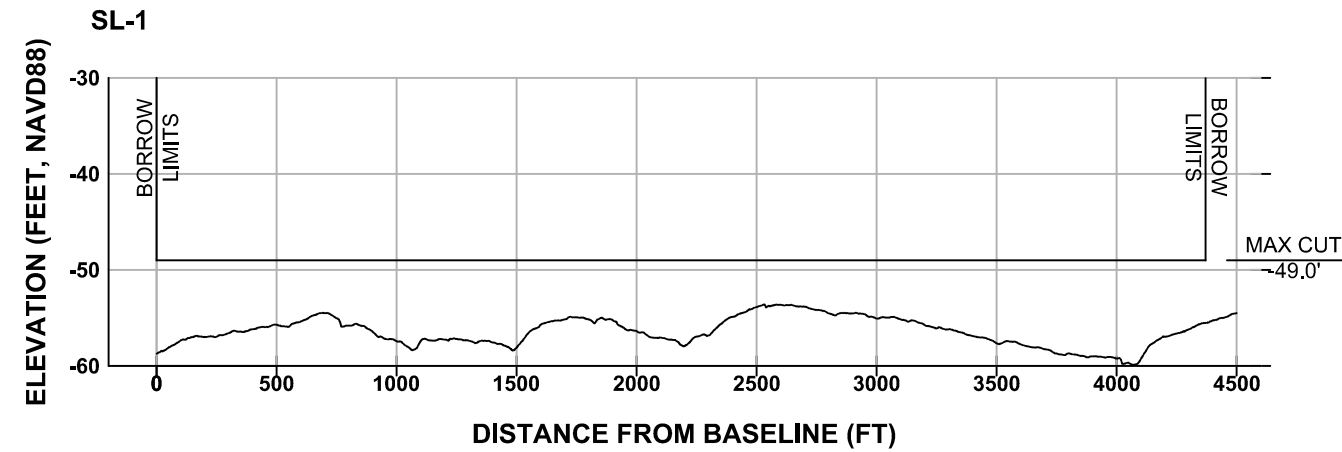
ENGINEER OF RECORD:
**ELECTRONICALLY
SIGNED ON
COVER PAGE**

DATE: 10/21/2021

REV	DATE	DESCRIPTION
1	10/21/2021	ORIGINAL

User Name: P1EF0937
Drawing Name: C:\Users\jpe937\OneDrive - Atkins Ltd\Documents\SP\CAD\100 CAD\100_Borrow.dwg
Feb 14, 2022 - 3:02pm





ENGINEER OF RECORD:
ELECTRONICALLY
SIGNED ON
COVER PAGE

[illegible]

ST. JOHNS COUNTY

SOUTH PONTE VEDRA

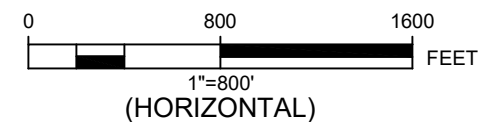
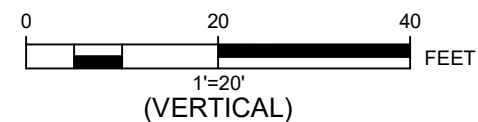
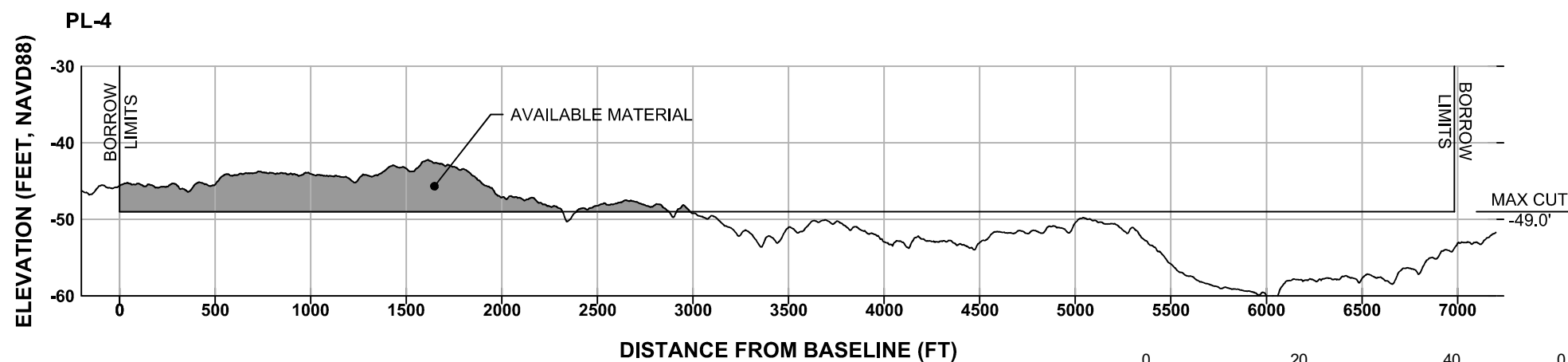
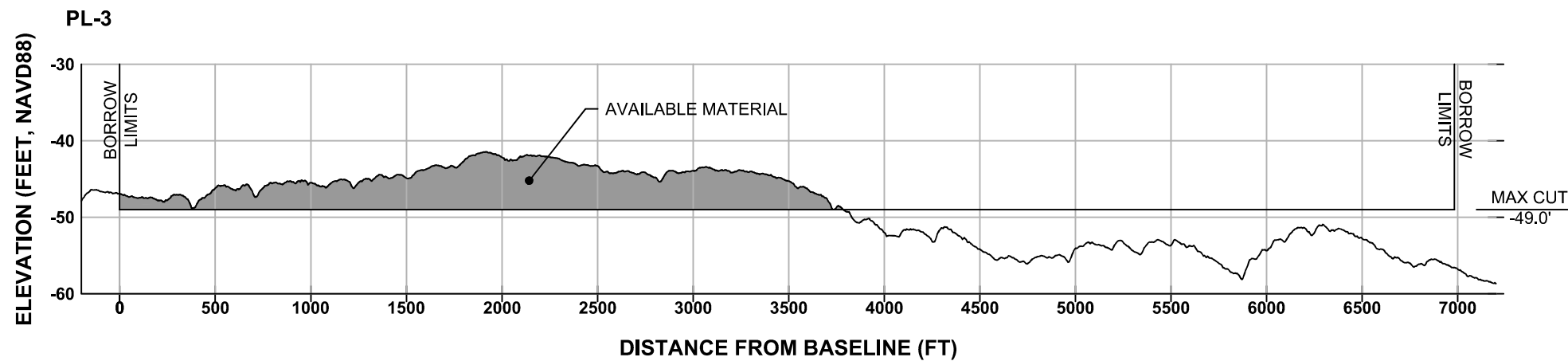
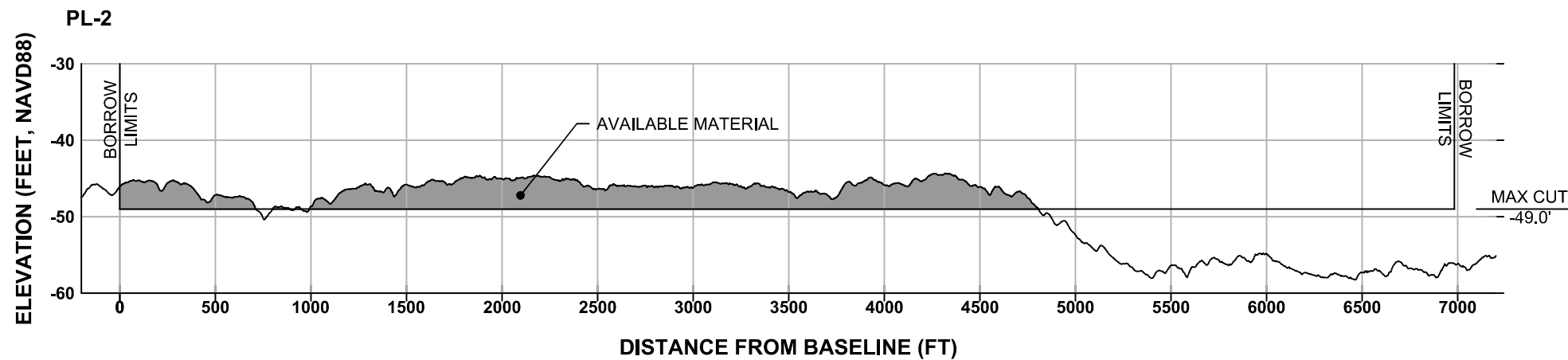
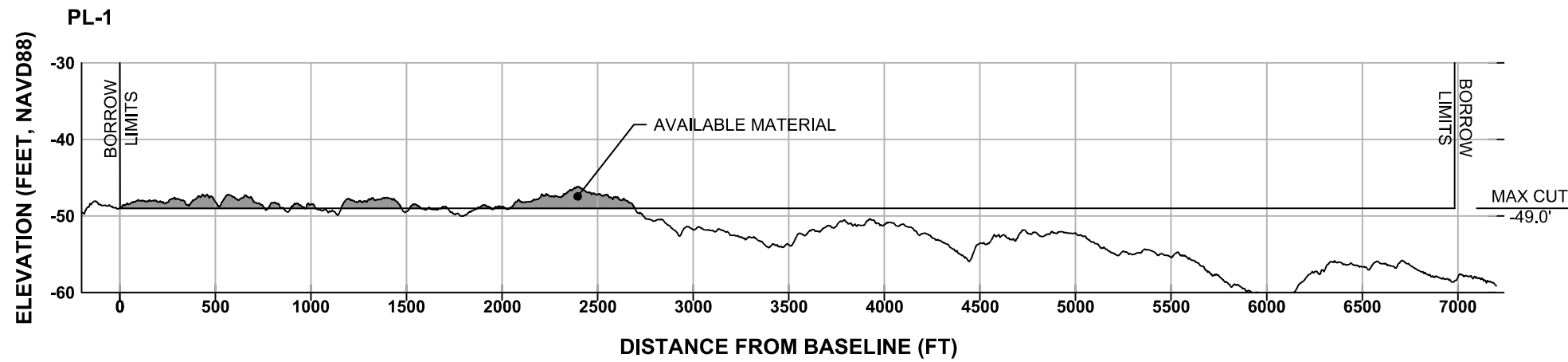
BEACH DUNE RESTORATION

BORROW AREA CROSS SECTIONS

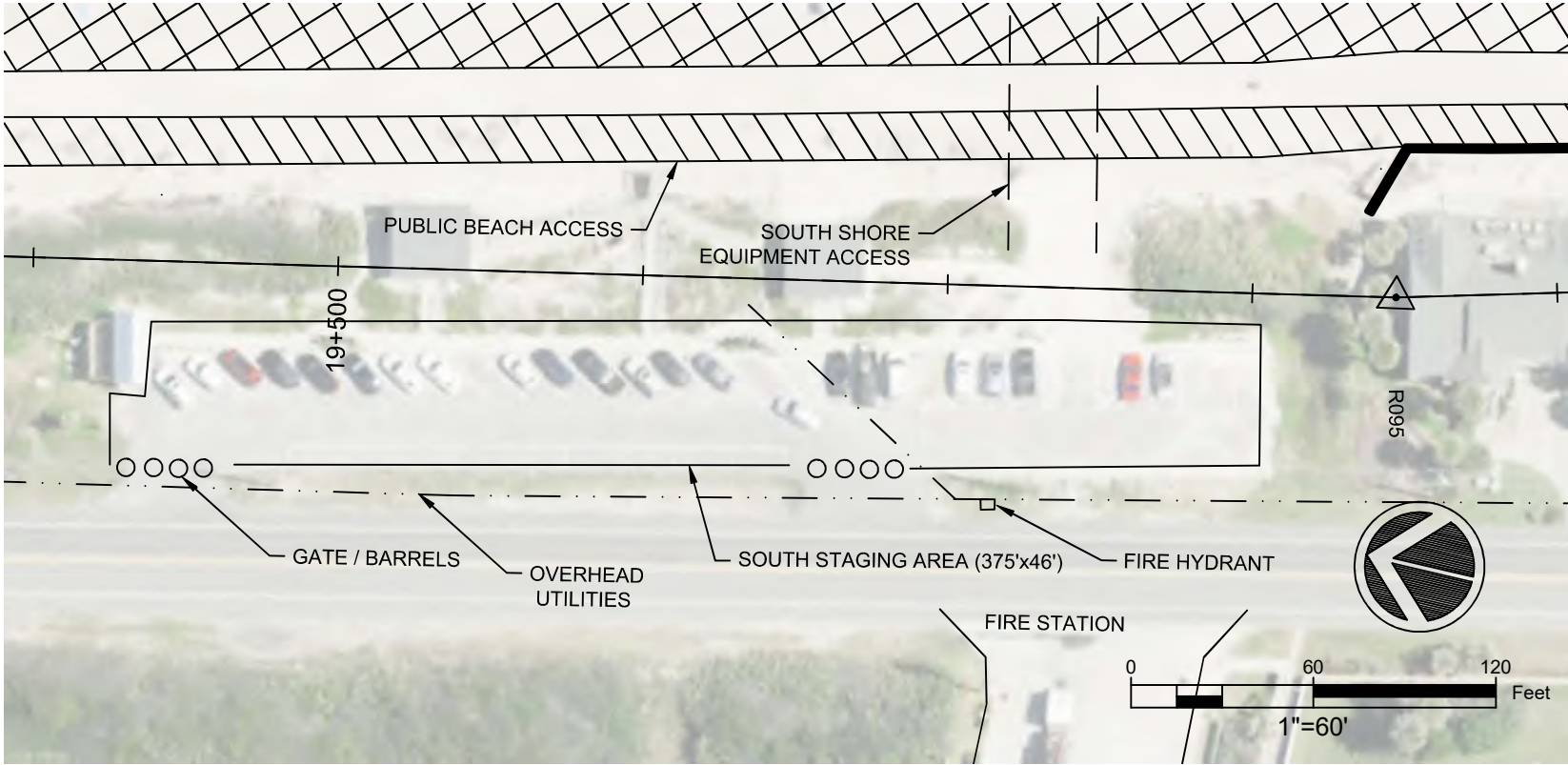
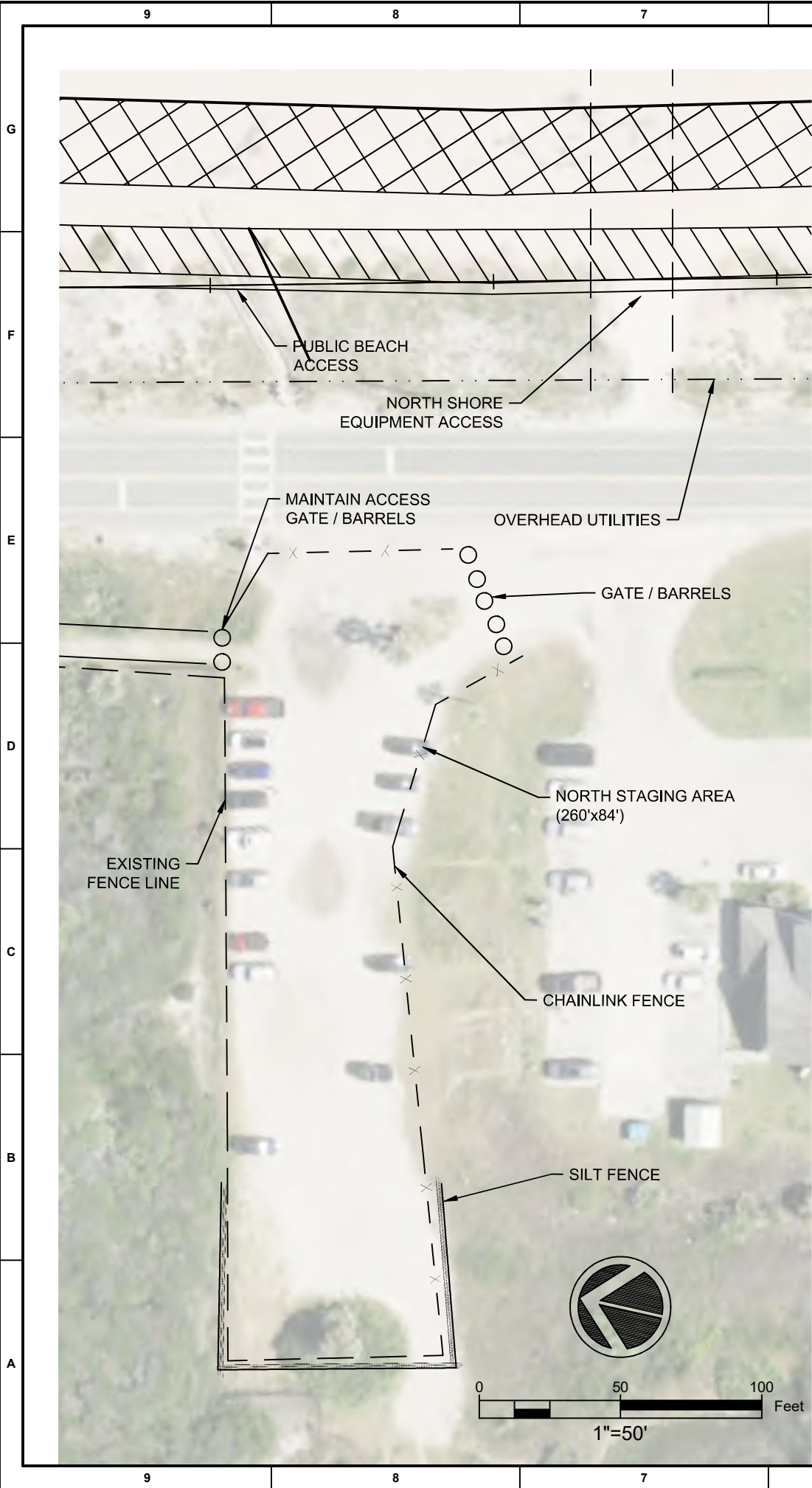
	
8375 DIX ELLIS TRAIL, SUITE 102, JACKSONVILLE, FL 32256 TEL. (904) 383-6180	
WWW.ATKINSGLOBAL.COM	
JOB NO.: 100075997	
DRAWN: JLP	
DESIGN: JLP	
CHECKED: SLR	
APPROVED: JB	
SHEET NO.	
C-125	

User Name: PIER9937
Drawing Name: C:\Users\pier9937\OneDrive - Atkins Ltd\Documents\SP\CAD\100 CADIC-100 BORROW CORSS SECTIONS.dwg
Feb 14, 2022 - 3:02pm

CONSTRUCTION DRAWINGS



CLIENT		ST. JOHNS COUNTY		PROJECT		SOUTH PONTE VEDRA BEACH DUNE RESTORATION		TITLE		Borrow Area Profiles		B		C		D		E		F		G	
ATKINS 8275 DIX ELLIS TRAIL, SUITE 102, JACKSONVILLE, FL 32244 TEL: (904) 363-6180 WWW.ATKINSGLOBAL.COM																							
JOB NO.: 100075997																							
DRAWN: JLP																							
DESIGN: JLP																							
CHECKED: SLR																							
APPROVED: JB																							
SHEET NO. C-126																							
NOTICE: THE INFORMATION IN THIS DOCUMENT WAS PREPARED BY ATKINS CONSULTANTS, INC. (ATKINS) FOR THE CLIENT'S USE. IT IS TO BE USED ONLY FOR THE PROJECT AND PURPOSES SPECIFICALLY IDENTIFIED IN THE CONTRACT. IT IS NOT TO BE USED FOR ANY OTHER PROJECT OR PURPOSE WITHOUT THE WRITTEN CONSENT OF ATKINS. ATKINS DOES NOT WARRANT THE ACCURACY OF THE INFORMATION CONTAINED IN THIS DOCUMENT. IT DOES NOT GUARANTEE THAT CHANGES OR OMISSIONS WILL BE MADE TO THE INFORMATION CONTAINED HEREIN. THE INFORMATION IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, INCLUDING WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. THE CLIENT ASSUMES ALL LIABILITY FOR THE USE OF THE INFORMATION CONTAINED IN THIS DOCUMENT. THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF ATKINS CONSULTANTS, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF ATKINS CONSULTANTS, INC.																							
ENGINEER OF RECORD:																							
ELECTRONICALLY SIGNED ON COVER PAGE																							
DATE: 10/21/2021																							
ORIGINAL ISSUED DATE: 10/21/2021																							
DESCRIPTION REV DATE																							



- NOTES
1. CONTRACTOR SHALL PROVIDE TEMPORARY CHAIN-LINK SECURITY FENCING WITH LOCKED ACCESS AROUND THE PERIMETER OF THE UTILIZED PORTION OF THE UPLAND STAGING AREAS.
 2. CONTRACTOR TO COORDINATE ALL ROADWAY CROSSINGS AND TEMPORARY LANE CLOSURES WITH COUNTY AND FLORIDA DOT IN ACCORDANCE WITH AN APPROVED MAINTENANCE OF TRAFFIC (MOT) PLAN.
 3. CONTRACTOR TO RESTORE ALL STAGING AND ACCESS AREAS TO PRECONSTRUCTION OR BETTER CONDITIONS. THIS MAY INCLUDE FILLING OF RUTS AND POTHOLES, GRADING, OR REPAIRS TO PAVEMENT/CONCRETE.
 4. CREW PARKING ACCESS IS LIMITED TO THE LIMITS OF THE PROVIDED STAGING AREAS.
 5. CONTRACTOR TO CONDUCT PRE-MOBILIZATION AND POST-CONSTRUCTION INSPECTIONS OF ALL STAGING AREAS.
 6. REFER TO PROJECT SPECIFICATIONS SECTION 01 50 02 TEMPORARY CONSTRUCTION FACILITIES FOR ADDITIONAL REQUIREMENTS.
 7. SOUTH ACCESS: INSTALL RAMP AND MATTING TO PROTECT SIDEWALK AND CURBING IF EQUIPMENT ACCESS IS UTILIZED.
 8. SOUTH ACCESS: CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS AT ALL TIMES AT THE FIRE STATION. COORDINATE STAGING AREA PLAN AND ALL DELIVERIES WITH FIRE CHIEF.
 9. OVERHEAD UTILITIES EXIST AT BOTH STAGING AREAS. UNDERGROUND UTILITIES MAY BE PRESENT, AND SHALL BE INVESTIGATED BY THE CONTRACTOR PRIOR TO HEAVY EQUIPMENT ACCESS OR OTHER GROUND-DISTURBING ACTIVITIES.

ENGINEER OF RECORD:
ELECTRONICALLY SIGNED ON COVER PAGE

DATE: 10/21/2021

ST. JOHNS COUNTY

SOUTH PONTE VEDRA
BEACH DUNE RESTORATION

UPLAND STAGING AREAS

ATKINS

8371 DIX ELLIS TRAIL,
SUITE 100
JACKSONVILLE, FL 32256
TEL: 904.343.4100

WWW.ATKINSGLOBAL.COM

JOB NO.: 100075997

DRAWN: JLP

DESIGN: JLP

CHECKED: SLR

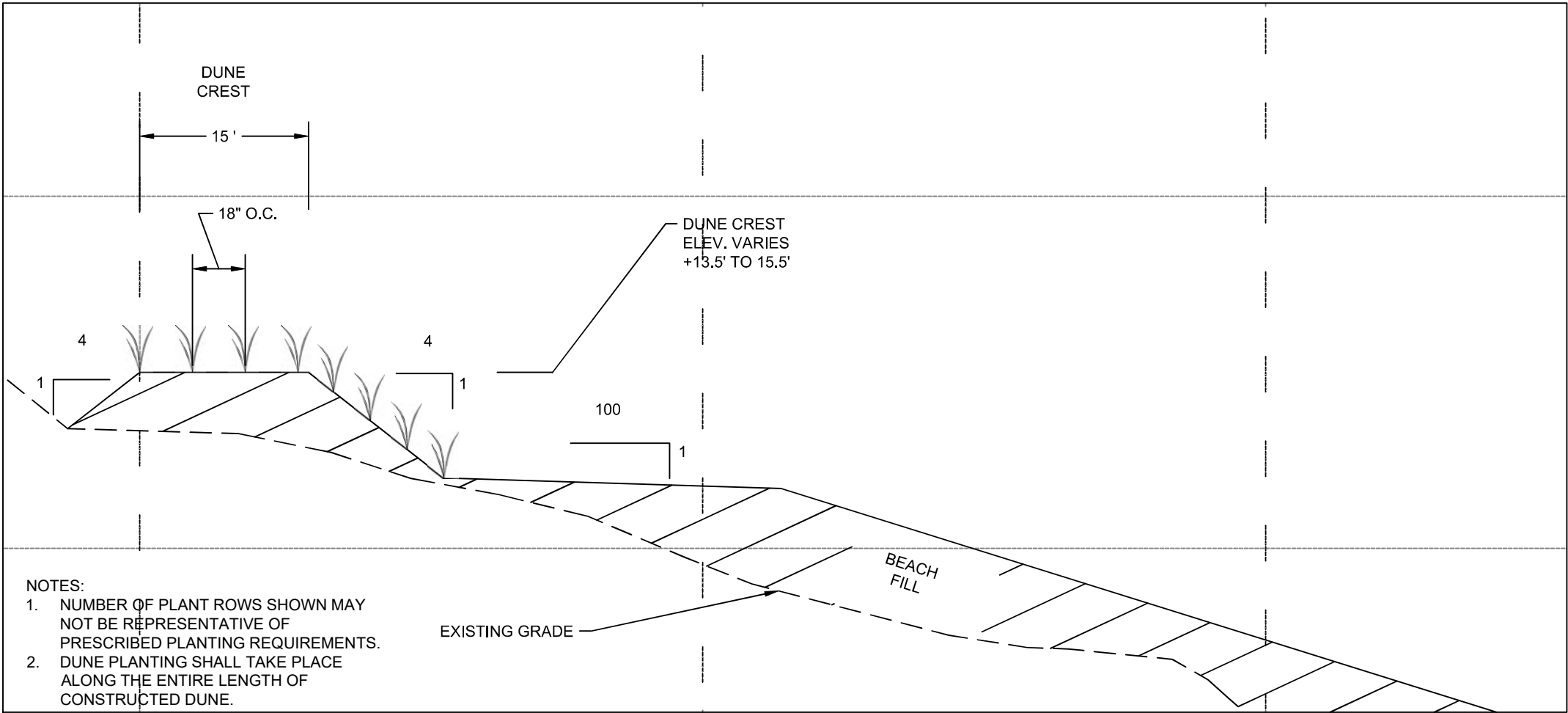
APPROVED: JB

SHEET NO.

C-127

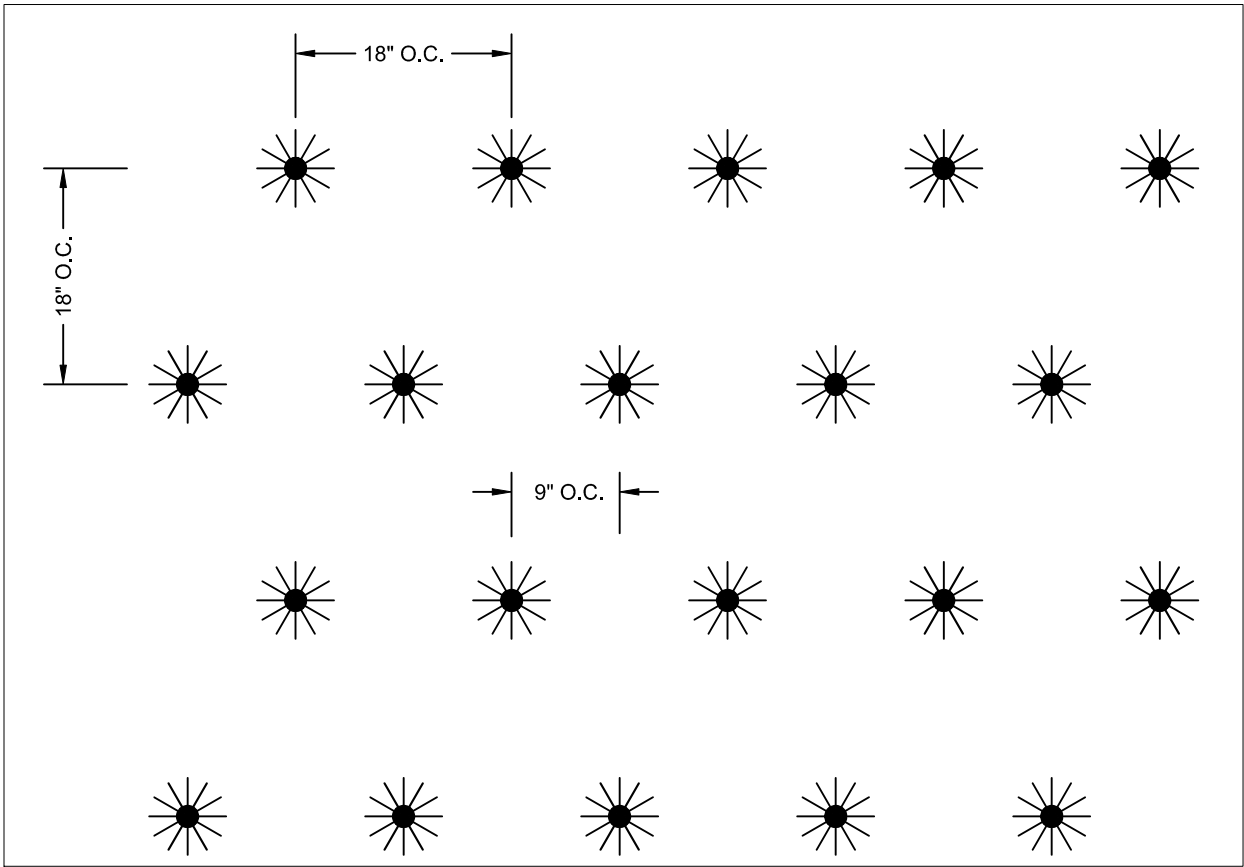
User Name: PIER9037
Drawing Name: C:\Users\pie9037\OneDrive - Atkins Ltd\Documents\SP\CAD\100 CAD\100 CAD\100 TYP.dwg
Feb 14, 2022 - 3:02pm

TYPICAL DUNE PLANTING PROFILE

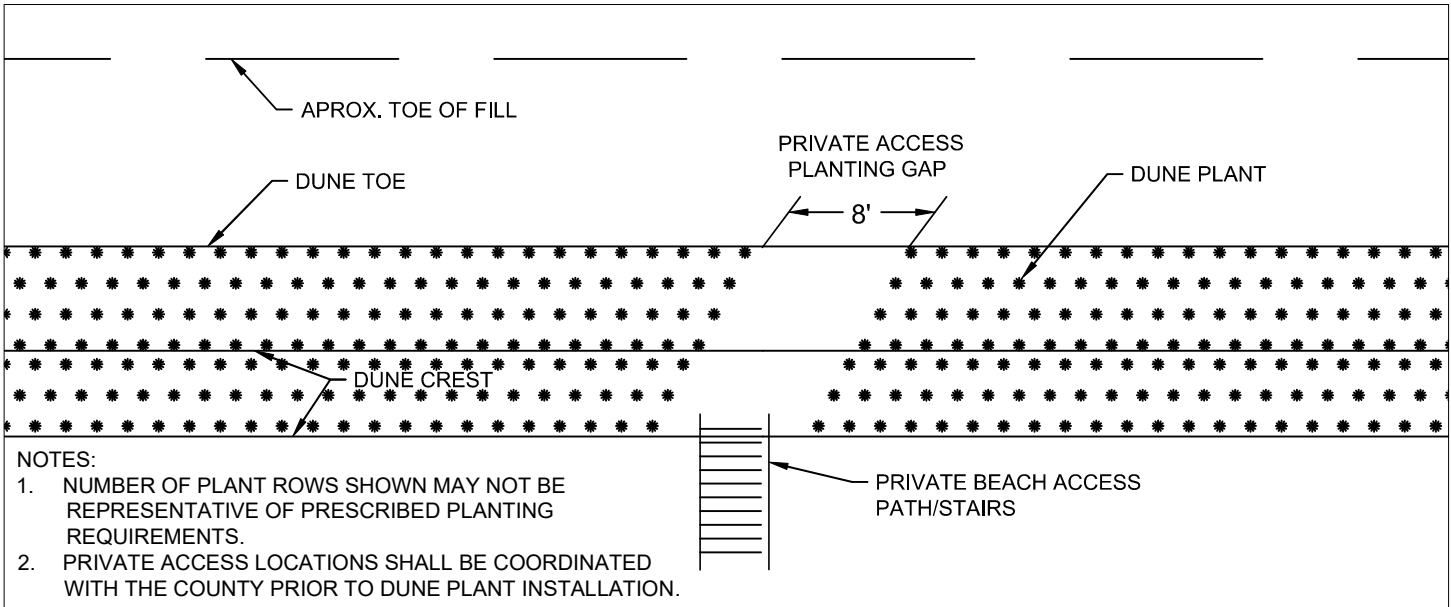


- NOTES:
1. NUMBER OF PLANT ROWS SHOWN MAY NOT BE REPRESENTATIVE OF PRESCRIBED PLANTING REQUIREMENTS.
 2. DUNE PLANTING SHALL TAKE PLACE ALONG THE ENTIRE LENGTH OF CONSTRUCTED DUNE.

DUNE PLANTING LAYOUT AND SPACING



PRIVATE BEACH ACCESS DUNE PLANTING DETAIL



- NOTES:
1. NUMBER OF PLANT ROWS SHOWN MAY NOT BE REPRESENTATIVE OF PRESCRIBED PLANTING REQUIREMENTS.
 2. PRIVATE ACCESS LOCATIONS SHALL BE COORDINATED WITH THE COUNTY PRIOR TO DUNE PLANT INSTALLATION.

PLANTING DETAILS					
PLANT TYPE	SCIENTIFIC NAME	PERCENT DISTRIBUTION	QUANTITY (APROX.)	SIZE	SPACING
SEA OATS	UNIOLA PANICULATA	80% TO 85%	464,000	1" LINER	18" O.C.
BITTER PANICGRASS	PANICUM AMARUM	10% TO 15%	87,000	1" LINER	18" O.C.
RAILROAD VINE	IPOMOEA PES-CAPRAE	3% TO 7% (RELATIVELY EQUAL ABUNDANCE OF EACH)	29,000	2" LINER	18" O.C.
DUNE SUNFLOWER	HELIANTHUS DEBILIS		29,000	2" LINER	18" O.C.

NOT TO SCALE

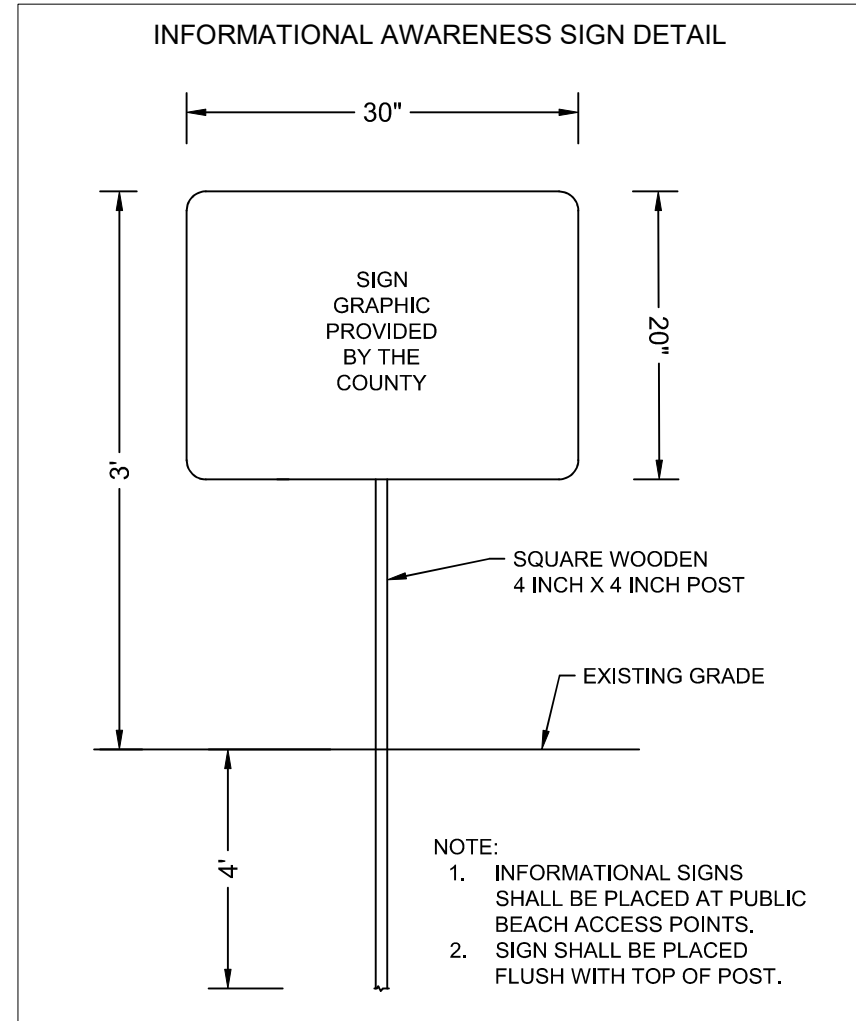
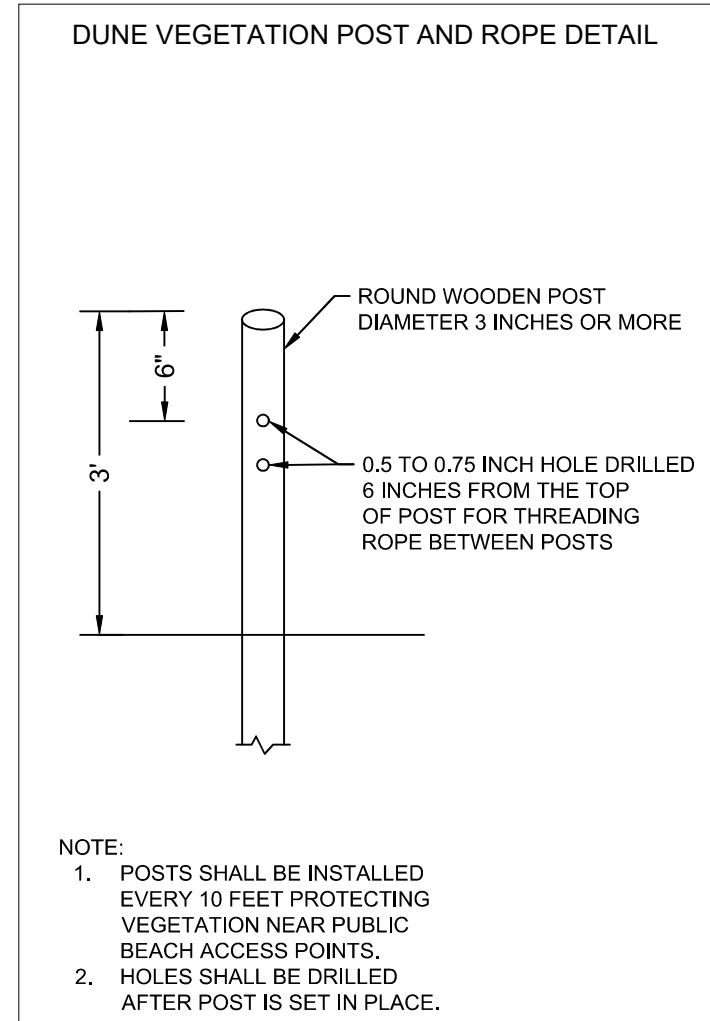
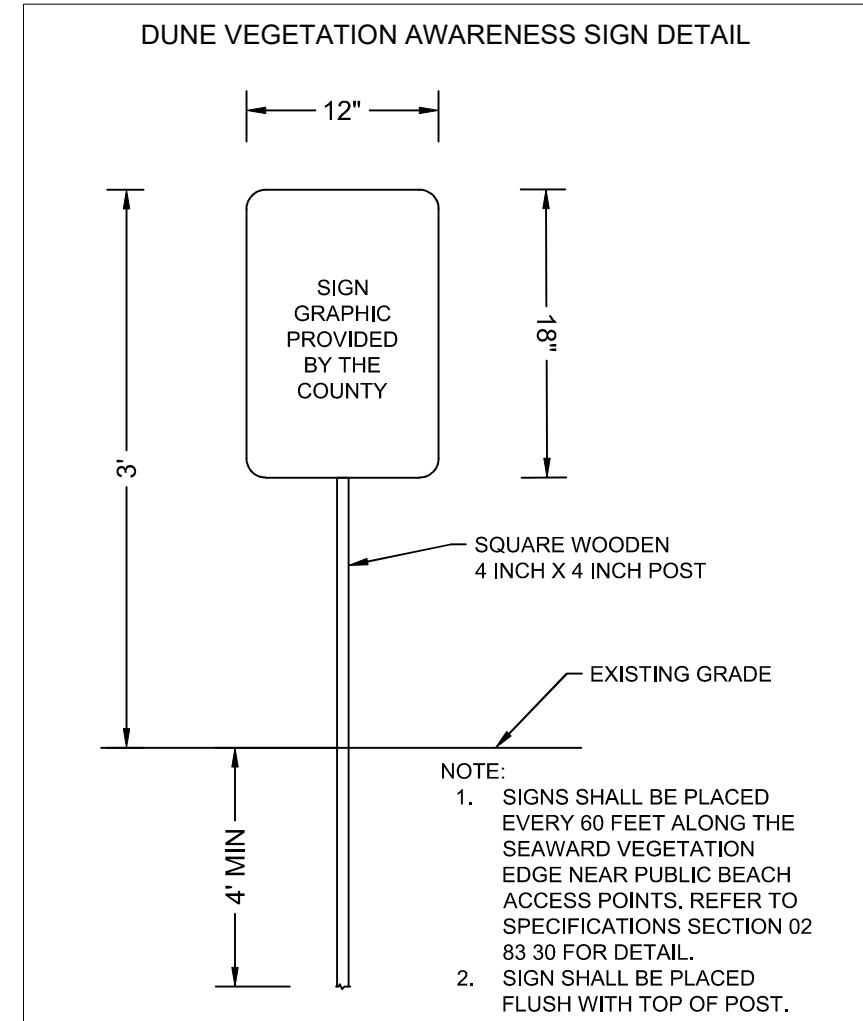
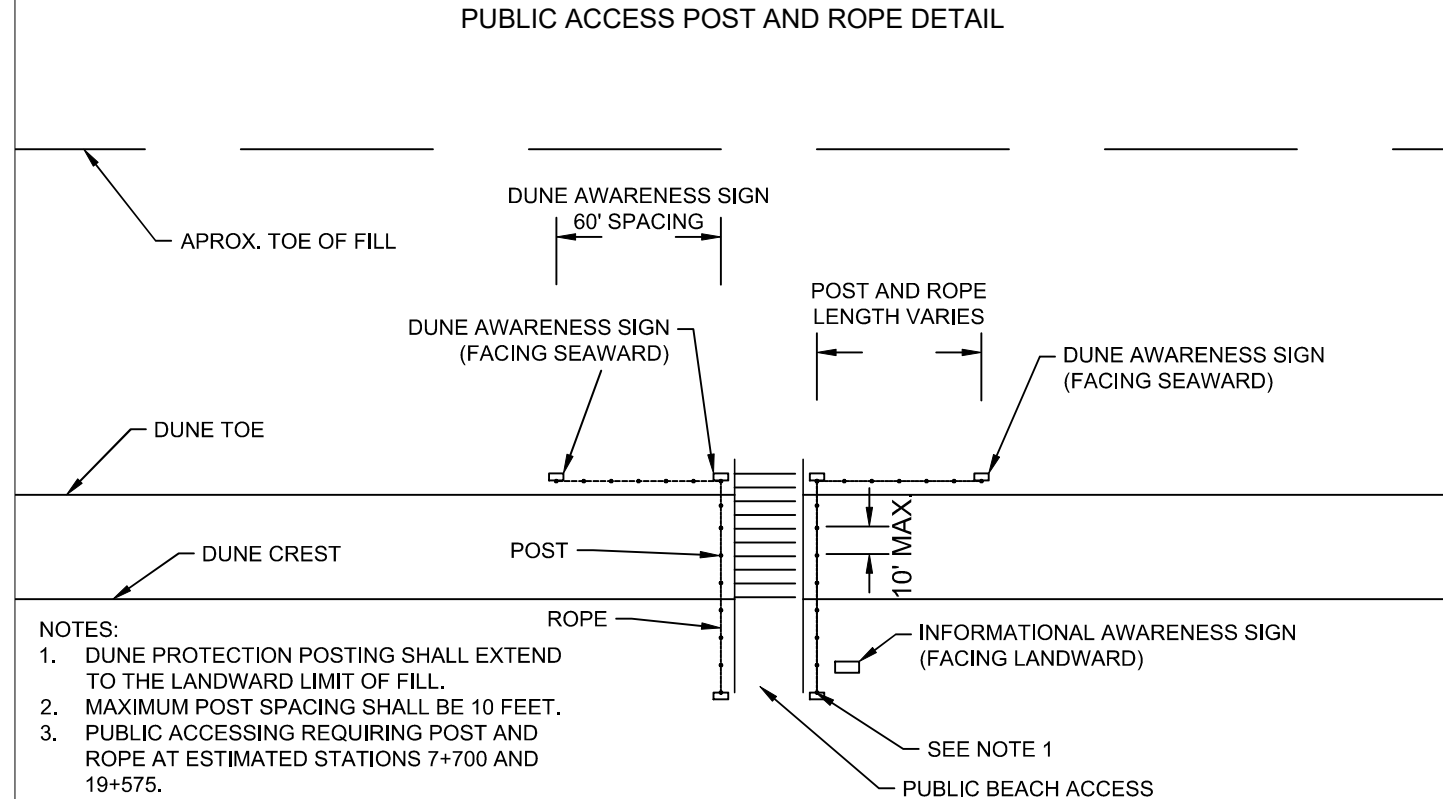
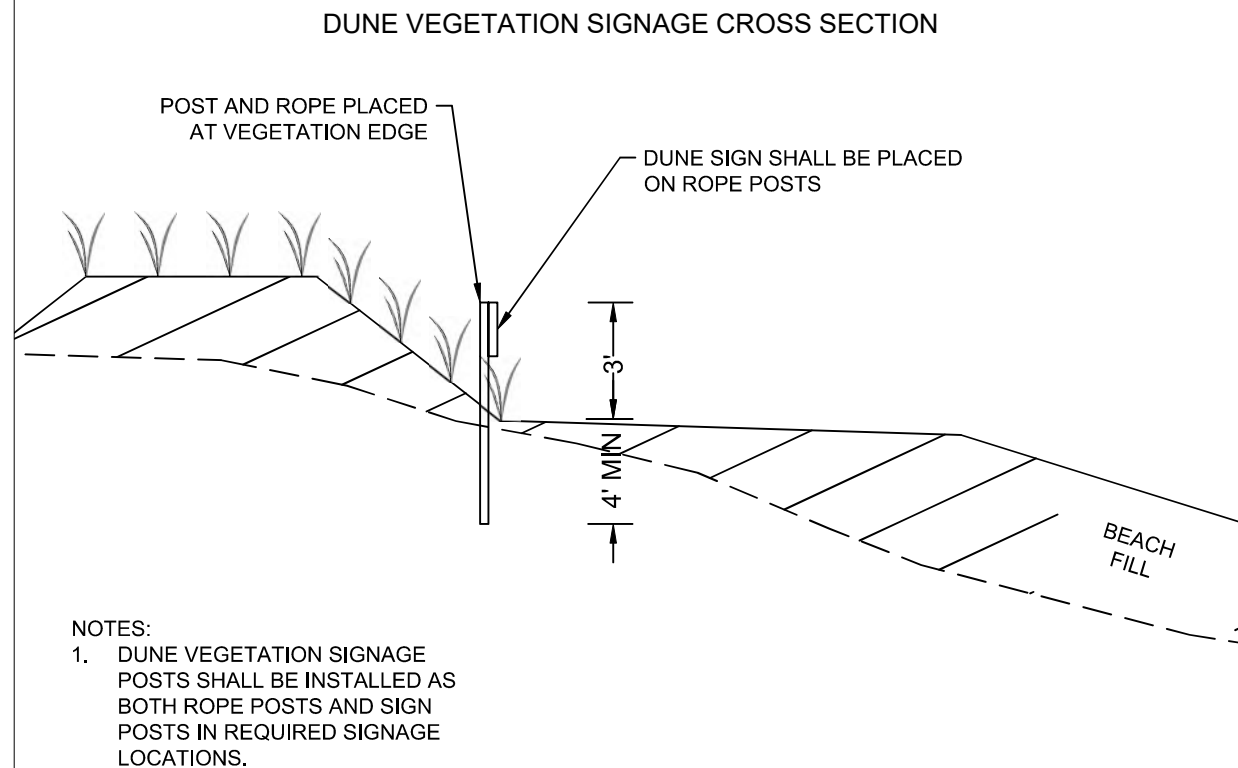
REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
71		
72		
73		
74		
75		
76		
77		
78		
79		
80		
81		
82		
83		
84		
85		
86		
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
99		
100		

ENGINEER OF RECORD:
ELECTRONICALLY SIGNED ON COVER PAGE

NOTICE: THE INFORMATION IN THIS DOCUMENT WAS PREPARED BY ATKINS INC. WHILE ATKINS HAS TAKEN ALL REASONABLE STEPS TO ENSURE THE ACCURACY OF THE INFORMATION CONTAINED HEREIN, IT DOES NOT GUARANTEE THAT THE INFORMATION IS COMPLETE, CORRECT, OR THAT THE INFORMATION WILL NOT BE CHANGED OR ALTERED IN THE FUTURE. THE INFORMATION IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, INCLUDING WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. THE INFORMATION IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS PREPARED. THE INFORMATION IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS PREPARED. THE INFORMATION IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS PREPARED.

CLIENT	ST. JOHNS COUNTY
PROJECT	SOUTH PONTE VEDRA BEACH DUNE RESTORATION
TITLE	DUNE PLANTING PLAN

ATKINS
8331 SIX ELLIS TRAIL, SUITE 100, JACKSONVILLE, FL 32256
TEL: 904.383.4100
WWW.ATKINSGLOBAL.COM
JOB NO.: 100075997
DRAWN: JLP
DESIGN: JLP
CHECKED: SLR
APPROVED: JB
SHEET NO. C-128



NOT TO SCALE

CONSTRUCTION DRAWINGS

CLIENT ST. JOHNS COUNTY		PROJECT SOUTH PONTE VEDRA BEACH DUNE RESTORATION		TITLE DUNE PLANTING PLAN		NOTICE: THE INFORMATION IN THIS DOCUMENT WAS PREPARED BY THE ENGINEER OR ARCHITECT AND IS TO BE USED ONLY TO ASSURE THE ACCURACY OF THE INFORMATION CONTAINED IN THIS DOCUMENT. ANY CHANGES, ADDITIONS, OR ALTERATIONS TO THIS DOCUMENT WILL NOT BE MADE IN THE ORIGINAL DOCUMENT. ANY CHANGES, ADDITIONS, OR ALTERATIONS MUST BE MADE IN THE ORIGINAL DOCUMENT. ANY CHANGES, ADDITIONS, OR ALTERATIONS MUST BE MADE IN THE ORIGINAL DOCUMENT. ANY CHANGES, ADDITIONS, OR ALTERATIONS MUST BE MADE IN THE ORIGINAL DOCUMENT.		ENGINEER OF RECORD: ELECTRONICALLY SIGNED ON COVER PAGE		DATE: 10/21/2021																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
						REVISIONS <table><thead><tr><th>REV.</th><th>DATE</th><th>DESCRIPTION</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><</tr></tbody></table>		REV.	DATE	DESCRIPTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
REV.	DATE	DESCRIPTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			