

CONSTRUCTION PLANS FOR
DANIA / HOLLYWOOD / HALLANDALE DUNE PROJECT
BROWARD COUNTY, FLORIDA
CONTRACT DOCUMENTS
VOLUME II

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PROJECT ENGINEER:



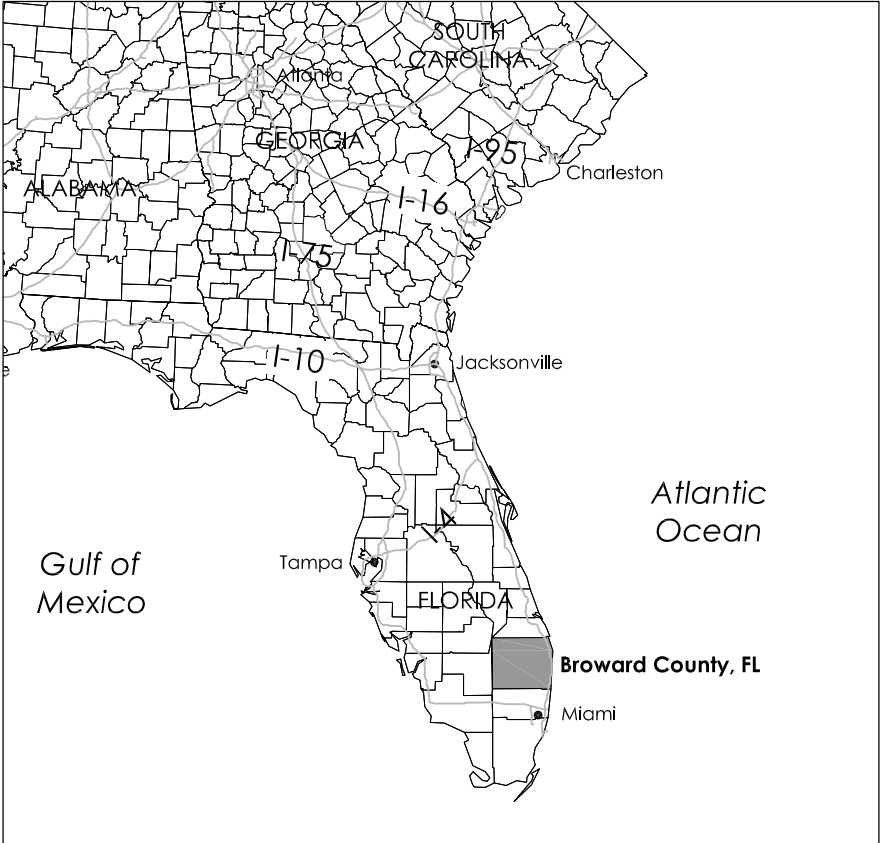
FOTH | OLSEN
2618 HERSCHEL ST
JACKSONVILLE, FL 32204
COA: 32549

PROJECT OWNER:



BROWARD COUNTY, FL

BID SET NOT FOR CONSTRUCTION DATE ISSUED: _____	SHEET 1 of 18
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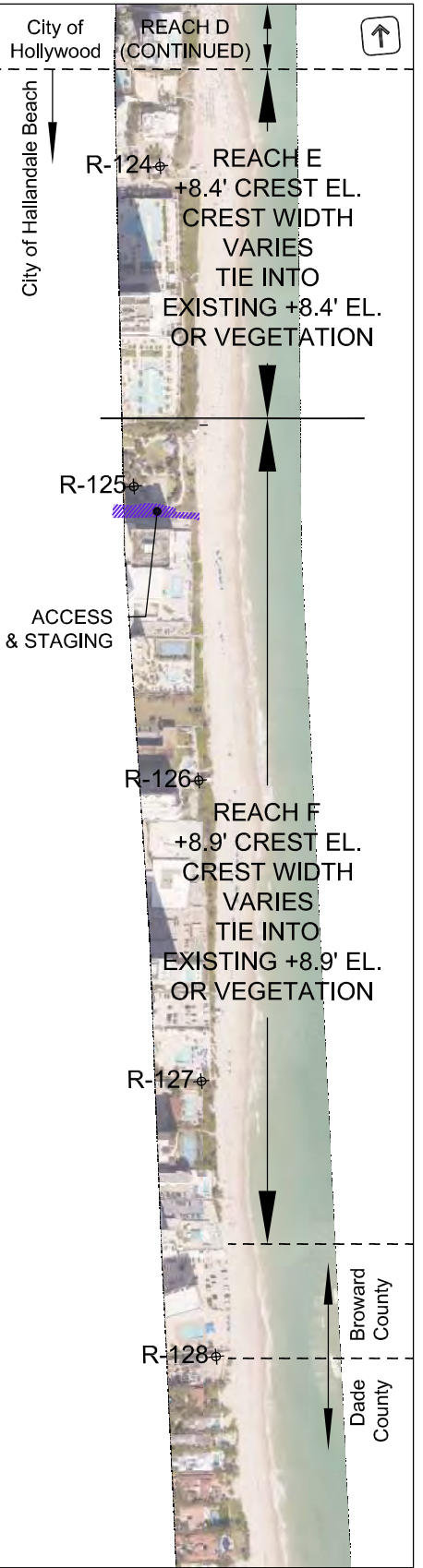
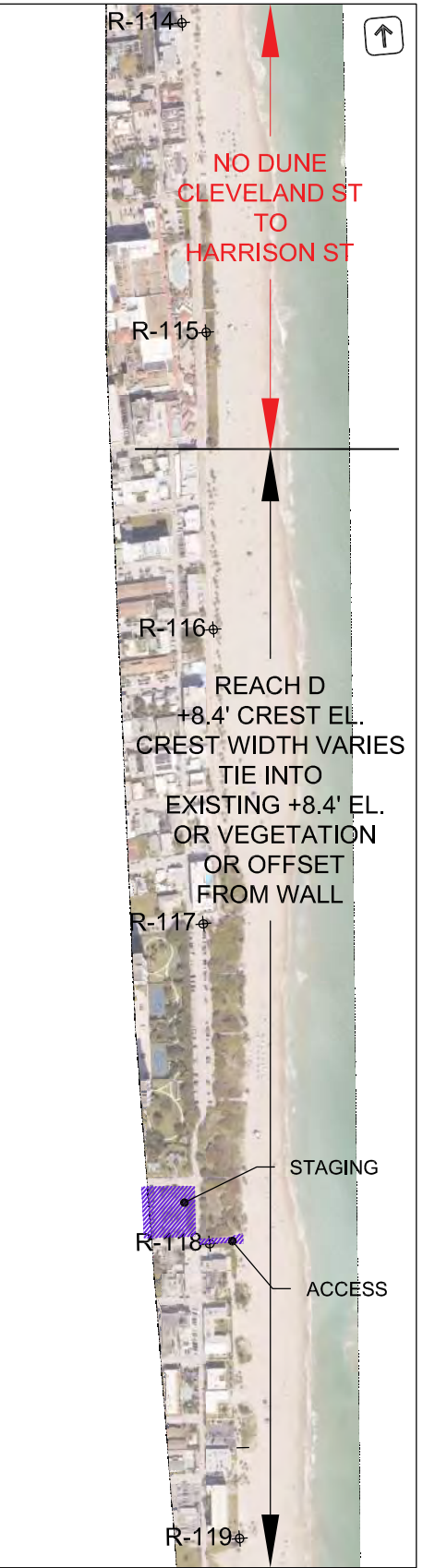
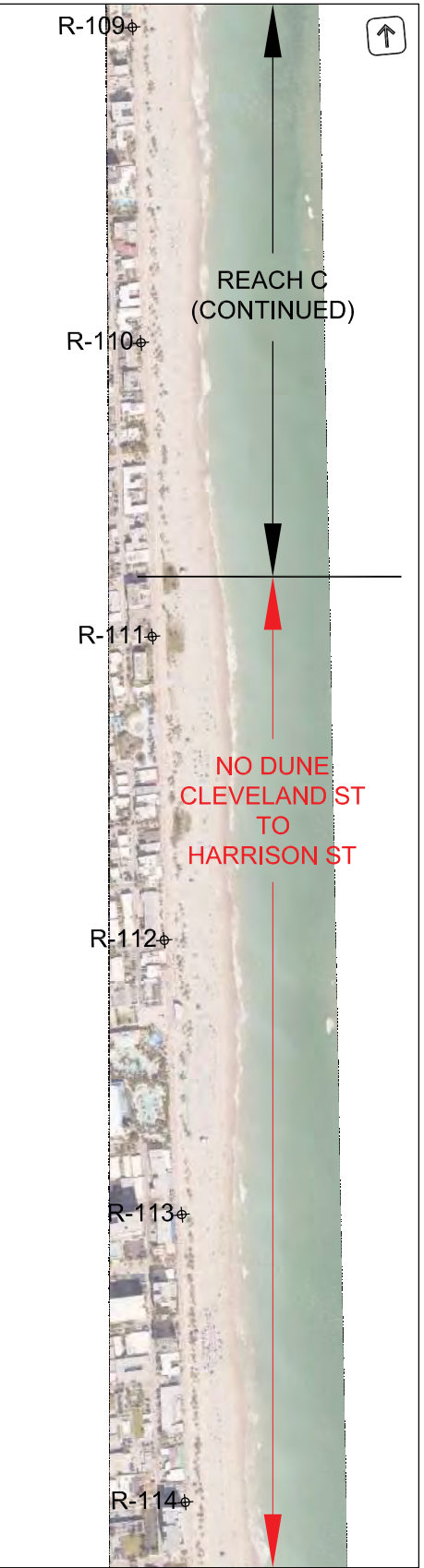
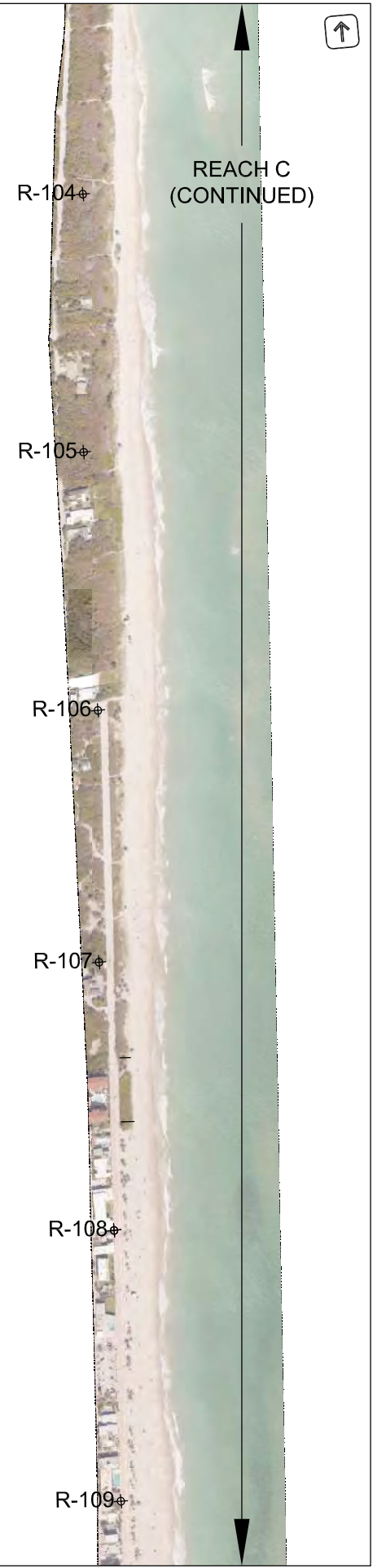
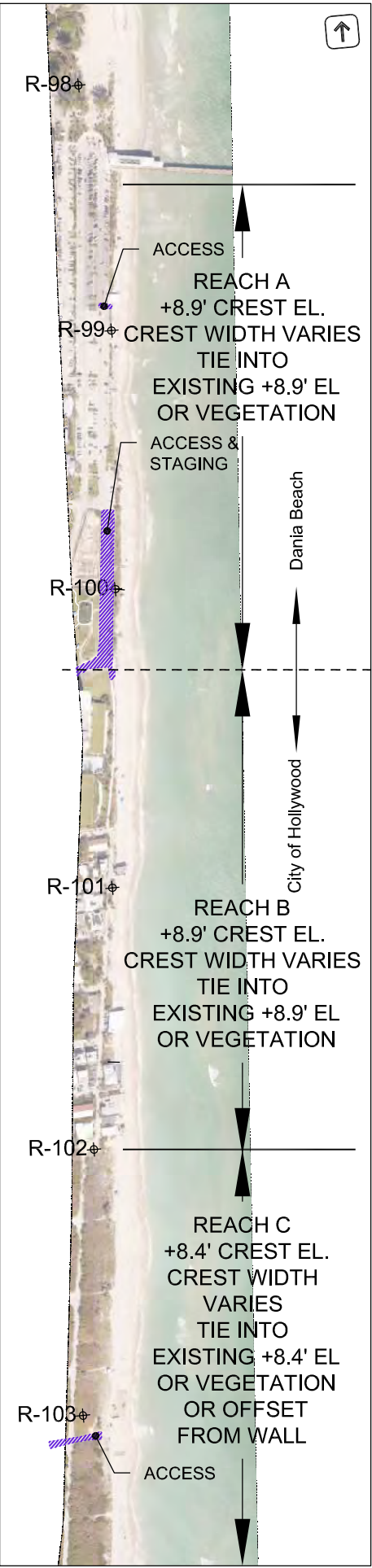
- GENERAL NOTES:
- 1.) ALL ELEVATIONS DEPICTED IN THESE DRAWINGS ARE IN FEET AND TENTHS AND ARE REFERENCED TO THE NORTH AMERICA VERTICAL DATUM (NAVD88) OF 1988, UNLESS OTHERWISE NOTED.
 - 2.) THE INFORMATION DEPICTED ON THESE DRAWINGS REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME.
 - 3.) HORIZONTAL CONTROL COORDINATES ARE BASED UPON STANDARD STATE PLANE RECTANGULAR COORDINATE SYSTEM FOR THE STATE OF FLORIDA, EAST (NAD83) AND ARE IN FEET.
 - 4.) UNLESS OTHERWISE INDICATED, DUNE WIDTHS AND OTHER TEMPLATE FEATURES ARE MEASURED PERPENDICULAR TO THE CONSTRUCTION BASELINE (CBL). POSITIVE VALUES INDICATE SEAWARD DISTANCE AND NEGATIVE VALUES LANDWARD DISTANCE. DISTANCES ALONG STANDARD AZIMUTHS OF FDEP RANGE MONUMENTS (R-MONUMENTS) WILL VARY SLIGHTLY DUE TO MINOR VARIATION IN BEARING.
 - 5.) THE PHOTOGRAPHY IS SHOWN FOR GENERAL INFORMATION ONLY AND THE LOCATION OR STATION OF ANY FEATURE SCALED FROM THESE MAPS MUST BE CONSIDERED APPROXIMATE.
 - 6.) BEARINGS ARE RELATED TO GRID NORTH (NAD83).

Published Tidal Datums for Port Everglades [ft]					
Datum		Lauderdale-By-The-Sea Ocean Tide Station (NOAA Station 8722899)	Port Everglades, Lake Mabel Tide Station (NOAA Station 8722951)	South Port Everglades, Tide Station (NOAA Station 8722956)	Average [ft]
MHHW	Mean Higher-High Water	0.56	0.56	0.57	0.56
MHW	Mean High Water	0.44	0.44	0.44	0.44
NAVD88	North American Vertical Datum of 1988	0.00	0.00	0.00	0.00
MTL	Mean Tide Level	-0.85	-0.82	-0.81	-0.83
MSL	Mean Sea Level	-0.84	-0.82	-0.80	-0.82
MLW	Mean Low Water	-2.13	-2.09	-2.06	-2.09
MLLW	Mean Lower-Low Water	-2.30	-2.25	-2.21	-2.25

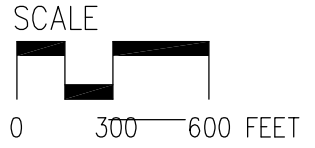
REVISIONS			
LTR	DESCRIPTION	BY	DATE



DANIA / HOLLYWOOD / HALLANDALE DUNE PROJECT BROWARD COUNTY, FLORIDA LOCATION OF WORK		SHEET 2 of 18
DRAWN BY: WAH	DATE: 03/28/2025	
CHECKED BY:	DATE:	



NOTES:
1. DATE OF AERIAL PHOTOGRAPHY:
FEBRUARY 21, 2024



REVISIONS			
LTR	DESCRIPTION	BY	DATE



DANIA / HOLLYWOOD / HALLANDALE DUNE PROJECT BROWARD COUNTY, FLORIDA	
APPROXIMATE LIMITS OF WORK	
DRAWN BY: WAH	DATE: 03/28/2025
CHECKED BY:	DATE:

Construction Baseline			
Point #	Easting (FT-NAD83)	Northing (FT-NAD83)	Station
BO3-R94	948,030.77	632,188.97	94+062.73
BO3-R98	947,809.86	628,209.19	98+048.64
BO3-R99	947,751.54	627,278.34	98+981.52
BO3-R100	947,679.08	626,288.05	99+974.25
BO3-T101	947,578.03	625,145.32	101+121.44
BO3-T102	947,450.63	624,148.46	102+126.41
BO3-R103	947,355.59	623,131.12	103+148.18
BO3-R106	947,129.78	620,128.74	106+149.04
BO3-R107	947,061.16	619,163.73	107+126.49
BO3-R108	946,992.66	618,136.46	108+156.03
BO3-R109	946,927.35	617,097.90	109+196.65
BO3-R110	946,866.52	616,030.79	110+265.49
BO3-T111	946,816.97	615,037.16	111+260.35
BO3-T112	946,765.67	614,009.92	112+288.88
BO3-R113	946,708.70	613,081.90	113+218.64
BO3-T114	946,671.07	612,107.78	114+192.49
BO3-R115	946,625.00	611,059.81	115+242.48
BO3-R116	946,561.14	610,055.90	116+248.42
BO3-R119	946,382.00	606,982.25	119+327.27
BO3-R120T	946,307.93	605,867.57	120+444.41
BO3-R121	946,281.71	604,781.80	121+540.50
BO3-R122	946,225.43	603,783.30	122+530.58
BO3-R123	946,141.31	602,767.88	123+549.49
BO3-R124	946,022.89	601,663.15	124+660.55
BO3-R127	945,835.50	598,570.24	127+759.12
BO3-05	945,821.73	597,965.24	128+364.28
BO3-R128	945,802.11	597,654.68	128+675.46

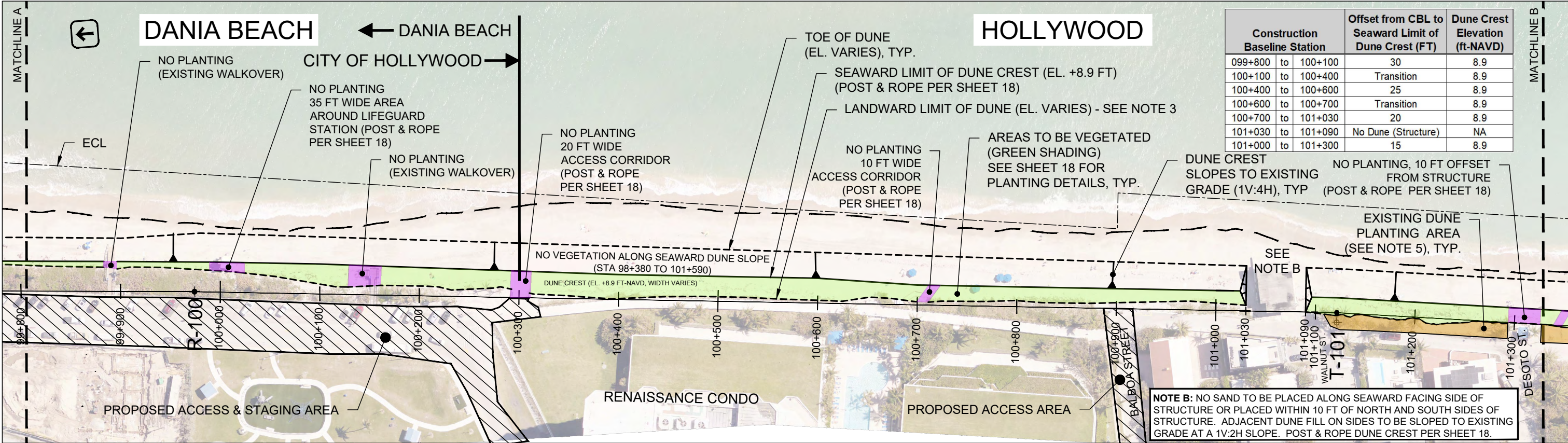
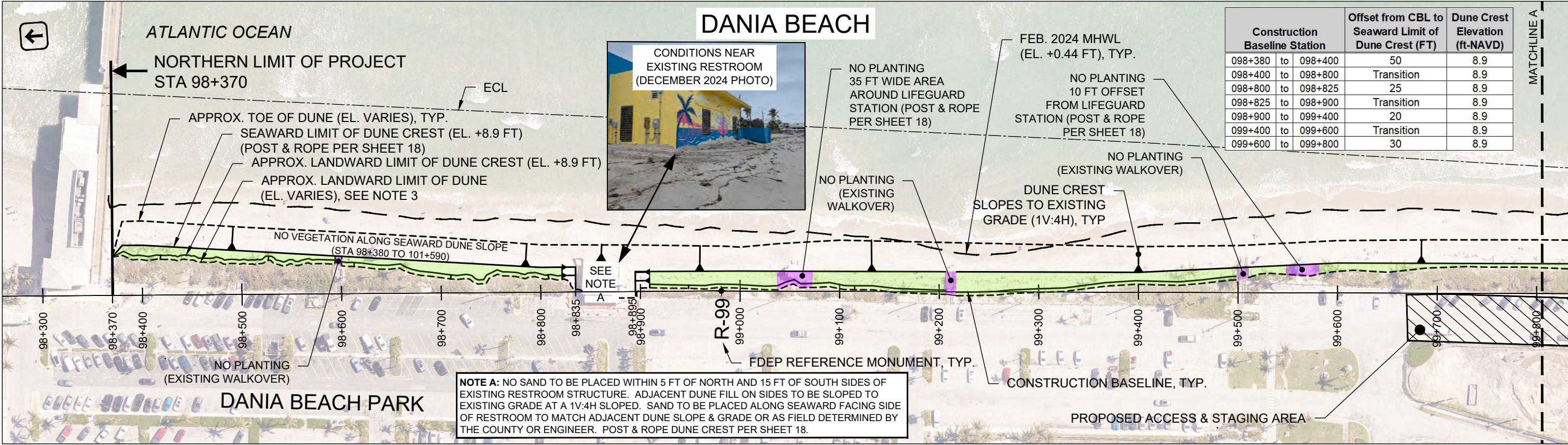
R-Monument Control			
Point #	Easting (FT-NAD83)	Northing (FT-NAD83)	Azimuth
R-98	947,706.96	628,227.34	100
R-99	947,751.54	627,278.34	100
R-100	947,679.08	626,288.05	100
T-101	947,568.10	625,146.19	95
T-102	947,410.23	624,152.00	95
R-103	947,279.73	623,137.76	95
R-104	947,184.88	622,113.68	95
R-105	947,101.17	621,126.66	95
R-106	947,069.52	620,134.01	95
R-107	946,989.61	619,169.99	95
R-108	946,957.08	618,139.58	95
R-109	946,892.75	617,100.93	95
R-110	946,828.38	616,034.13	95
T-111	946,779.88	615,040.41	95
T-112	946,730.33	614,013.01	95
R-113	946,708.70	613,081.90	95
T-114	946,635.31	612,110.91	95
R-115	946,625.00	611,059.81	95
R-116	946,561.14	610,055.90	95
R-117	946,441.46	609,066.25	95
R-118	946,368.23	607,985.22	95
R-119	946,382.00	606,982.25	95
T-120	946,307.93	605,867.57	95
R-121	946,274.09	604,782.47	95
R-122	946,211.88	603,784.49	95
R-123	946,132.24	602,768.51	95
R-124	945,912.14	601,672.84	95
R-125	945,729.14	600,600.84	95
R-126	945,861.14	599,589.84	95
R-127	945,781.25	598,574.99	95
R-128	945,749.49	597,642.56	95

Erosion Control Line (ECL)					
Point #	Easting (FT-NAD83)	Northing (FT-NAD83)	Point #	Easting (FT-NAD83)	Northing (FT-NAD83)
PB3-72	948,940.89	640,324.69	0065-25	946,912.06	613,884.47
PB3-71	948,630.86	639,169.70	0065-26	946,878.24	613,385.45
PB3-70	948,530.83	638,169.70	0065-27	946,837.43	612,886.76
PB3-69	948,440.79	636,669.70	0065-28	946,806.61	612,387.59
PB3-68	948,365.76	635,669.71	0065-29	946,776.80	611,888.37
PB3-67	948,300.73	634,669.71	0065-30	946,752.95	611,388.83
PB3-66	948,140.68	632,669.72	0065-31	946,723.09	610,889.61
PB3-65	948,075.63	631,169.72	0065-32	946,703.21	610,389.90
PB3-64	947,980.59	629,669.72	0065-33	946,679.33	609,890.38
PB3-63	947,962.98	628,790.65	0065-34	946,631.48	609,392.06
PB3-62	948,033.55	628,230.93	0065-35	946,584.84	608,893.51
PB3-61	947,870.68	626,847.94	0065-36	946,530.01	608,395.61
PB3-1	947,677.44	625,359.13	0065-37	946,527.11	607,895.02
0065-1	947,713.28	625,356.02	0065-38	946,502.23	607,395.57
0065-2	947,713.26	625,355.99	0065-39	946,487.35	606,395.60
0065-3	947,651.55	624,872.15	0065-40	946,456.48	606,396.46
0065-4	947,582.03	624,376.00	0065-41	946,390.67	605,899.13
0065-5	947,518.95	623,887.43	0065-42	946,344.82	605,400.76
0065-6	947,452.82	623,353.88	0065-43	946,314.96	604,901.57
0065-7	947,389.24	622,856.90	0065-44	946,287.09	604,402.28
0065-8	947,339.64	622,358.04	0065-45	946,270.74	603,901.36
0065-9	947,312.23	621,856.19	0065-46	946,226.89	603,403.24
0065-10	947,259.87	621,376.56	0065-47	946,214.93	602,902.52
0065-11	947,239.90	620,876.83	0065-48	946,153.10	602,405.80
0065-12	947,209.96	620,377.80	0065-49	946,084.36	601,909.81
0065-13	947,176.37	619,877.79	0065-50	946,033.32	601,873.96
0065-14	947,160.63	619,377.80	0065-51	945,996.54	601,599.29
0065-15	947,116.25	618,879.58	0065-52	945,868.10	599,777.84
0065-16	947,080.41	618,380.79	0065-53	945,867.25	599,627.18
0065-17	947,048.35	617,881.82	0065-54	945,844.29	598,976.09
0065-18	947,011.70	617,383.14	0065-55	945,837.44	598,876.27
0065-19	946,995.11	616,883.20	0065-56	945,797.76	598,277.17
0065-20	946,963.62	616,385.30	0065-57	945,787.54	598,177.69
0065-21	946,945.41	615,885.51	0065-58	945,822.14	597,973.06
0065-22	946,941.78	615,384.99	0065-59	945,819.65	597,816.23
0065-23	946,938.85	614,884.43	0065-60	945,802.11	597,654.68
0065-24	946,931.25	614,383.20			

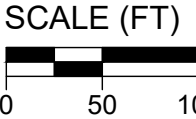
REVISIONS			
LTR	DESCRIPTION	BY	DATE



DANIA / HOLLYWOOD / HALLANDALE DUNE PROJECT BROWARD COUNTY, FLORIDA CONTROL INFORMATION		SHEET 4 of 18
DRAWN BY: WAH	DATE: 03/28/2025	
CHECKED BY:	DATE:	



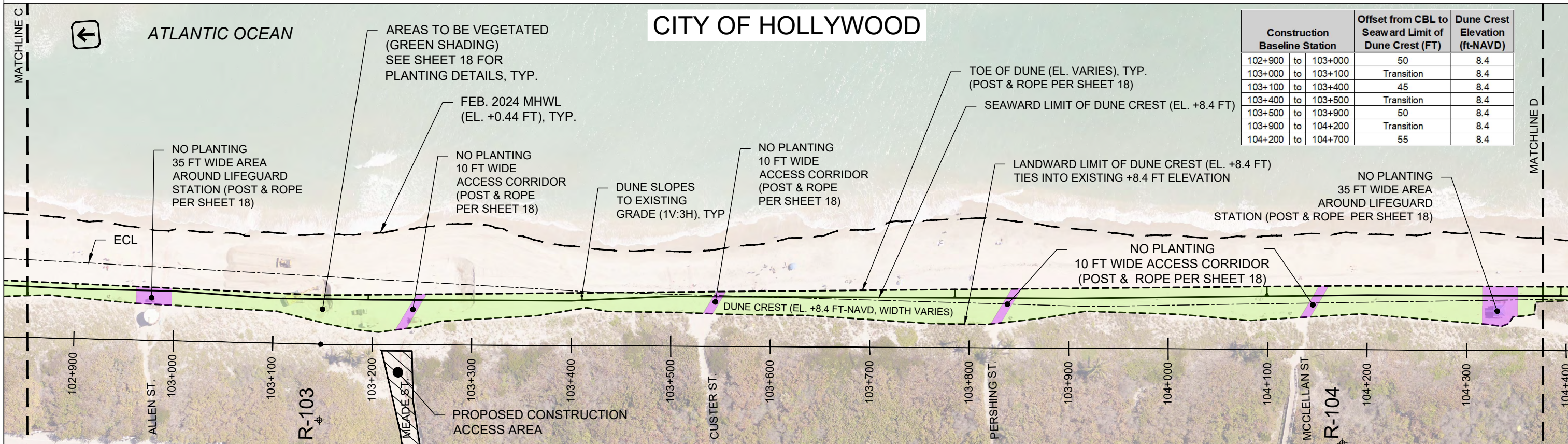
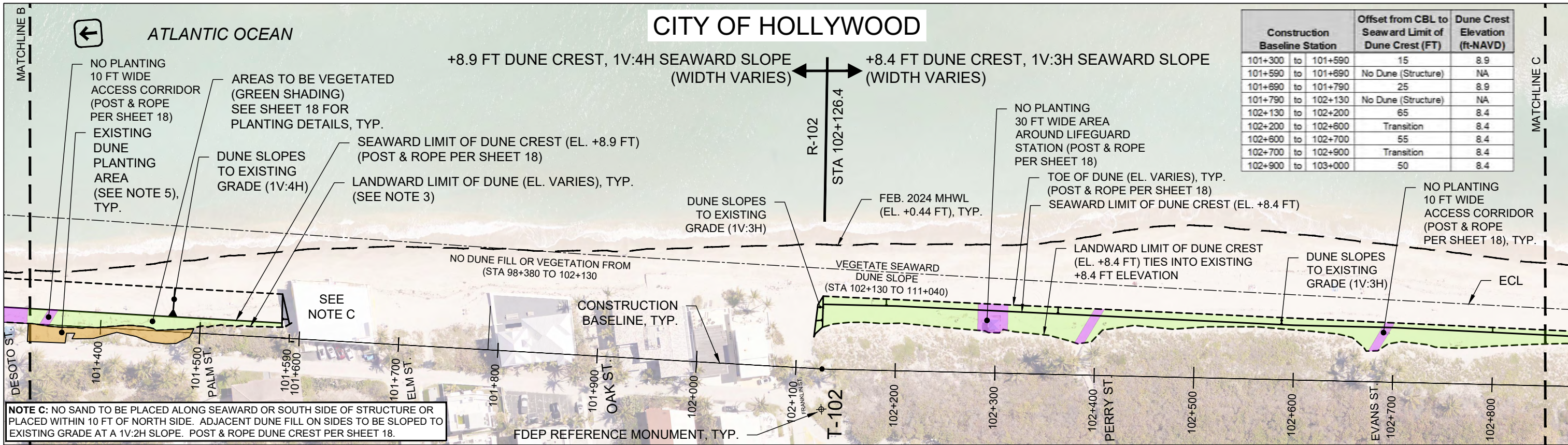
- NOTES:
- DATE OF SURVEY & AERIAL PHOTO: FEBRUARY 21, 2024 (LIDAR)
 - LOCATION OF DUNE & VEGETATION SUBJECT TO CHANGE FOLLOWING CONTRACTOR'S PRE-CONSTRUCTION SURVEY.
 - THE LANDWARD LIMIT OF DUNE IS LOCATED AT THE EXISTING +8.9 FT-NAVD CONTOUR OR THE EXISTING LIMIT OF VEGETATION IF LOCATED SEAWARD/BELOW THE +8.9 FT-NAVD CONTOUR OR UNLESS OTHERWISE SPECIFIED. IF LANDWARD LIMIT OF DUNE IS LOCATED BELOW +8.9 FT-NAVD, THE LANDWARD DUNE SLOPE IS 1V:2H.
 - THE CONTRACTOR SHALL AVOID PLACING SAND DIRECTLY ONTO EXISTING INFRASTRUCTURE, PATHS, STAIRS, RAMPS, AND PROPERTY BOUNDARIES. SAND SHALL BE GRADED DOWN TO MEET GRADE AT EXISTING INFRASTRUCTURE. FIELD ADJUSTMENTS MAY BE REQUIRED FOR SAND PLACEMENT AROUND EXISTING INFRASTRUCTURE AND ACCESSES AND ARE SUBJECT TO THE APPROVAL OF THE COUNTY OR ENGINEER.
 - PLANTING MAY EXTEND LANDWARD OF CONSTRUCTED DUNE FILL TO EXISTING VEGETATION, AS DIRECTED BY COUNTY OR ENGINEER.



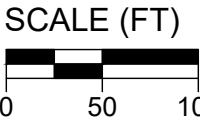
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DANIA / HOLLYWOOD / HALLANDALE DUNE PROJECT BROWARD COUNTY, FLORIDA PLAN OF IMPROVEMENT	
DRAWN BY: WAH	DATE: 03/28/2025
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- NOTES:
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 - THE LANDWARD LIMIT OF DUNE IS LOCATED AT THE EXISTING +8.4/+8.9 FT-NAVD CONTOUR (AS INDICATED) OR THE EXISTING LIMIT OF VEGETATION IF LOCATED SEAWARD/BELOW THE +8.4/+8.9 FT-NAVD CONTOUR OR UNLESS OTHERWISE SPECIFIED. IF LANDWARD LIMIT OF DUNE IS LOCATED BELOW +8.4/+8.9 FT-NAVD, THE LANDWARD DUNE SLOPE IS 1V:2H.
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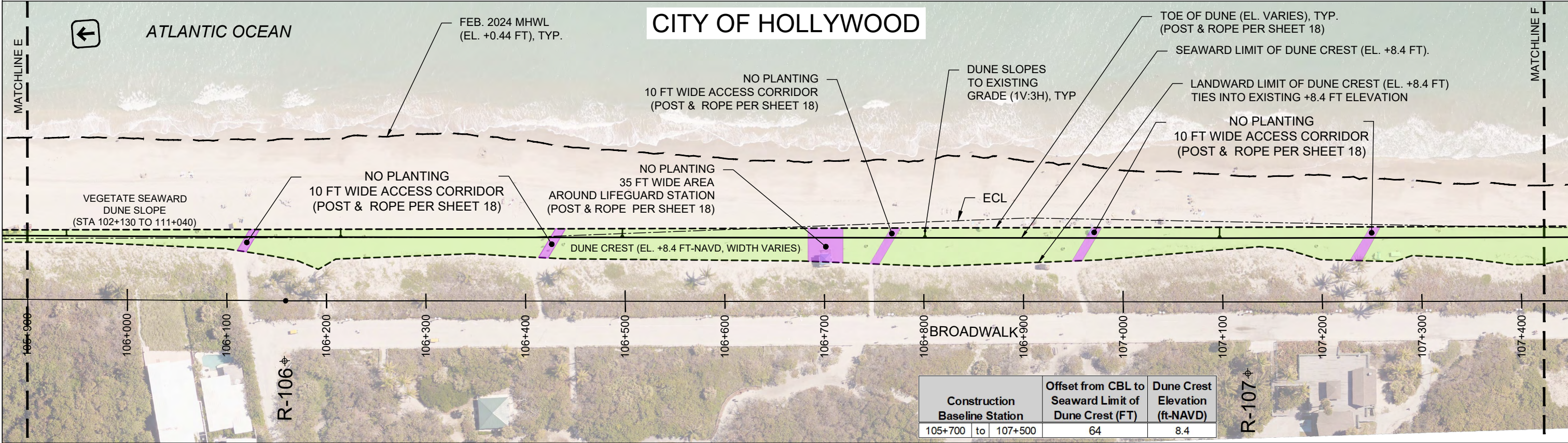
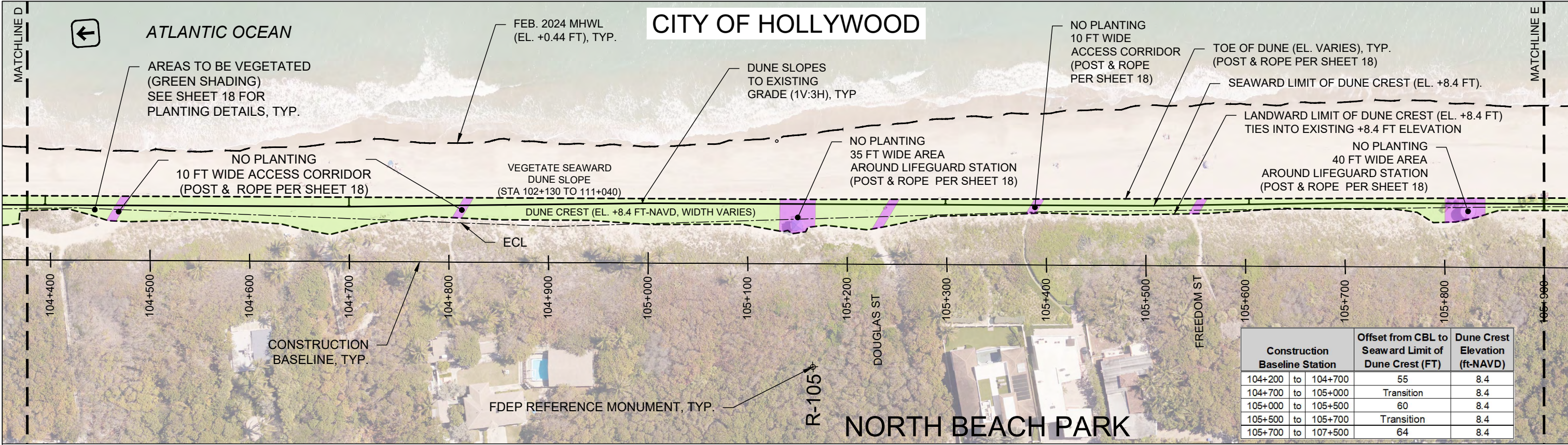
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DANIA / HOLLYWOOD / HALLANDALE
DUNE PROJECT
BROWARD COUNTY, FLORIDA
PLAN OF IMPROVEMENT

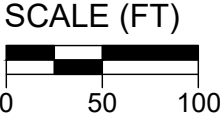
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of 18



NOTES:

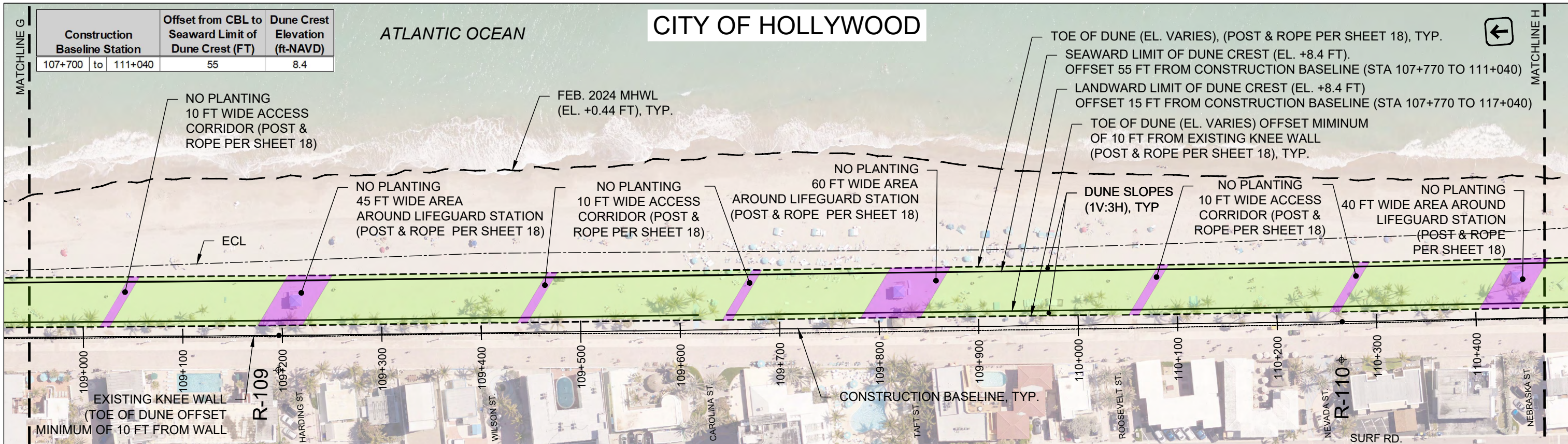
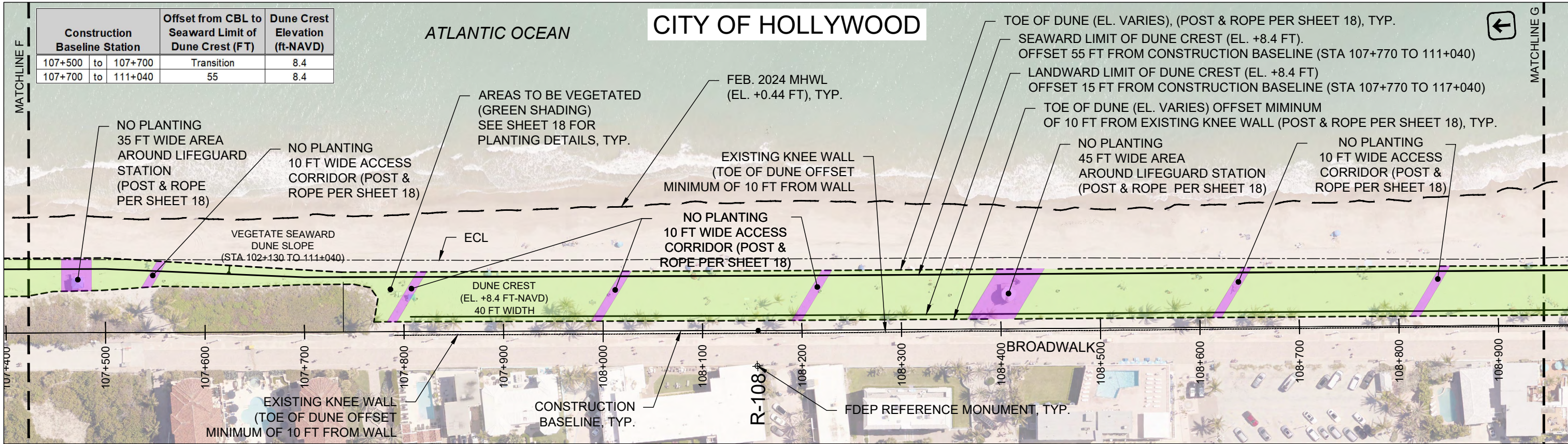
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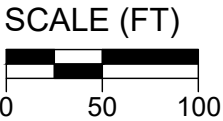
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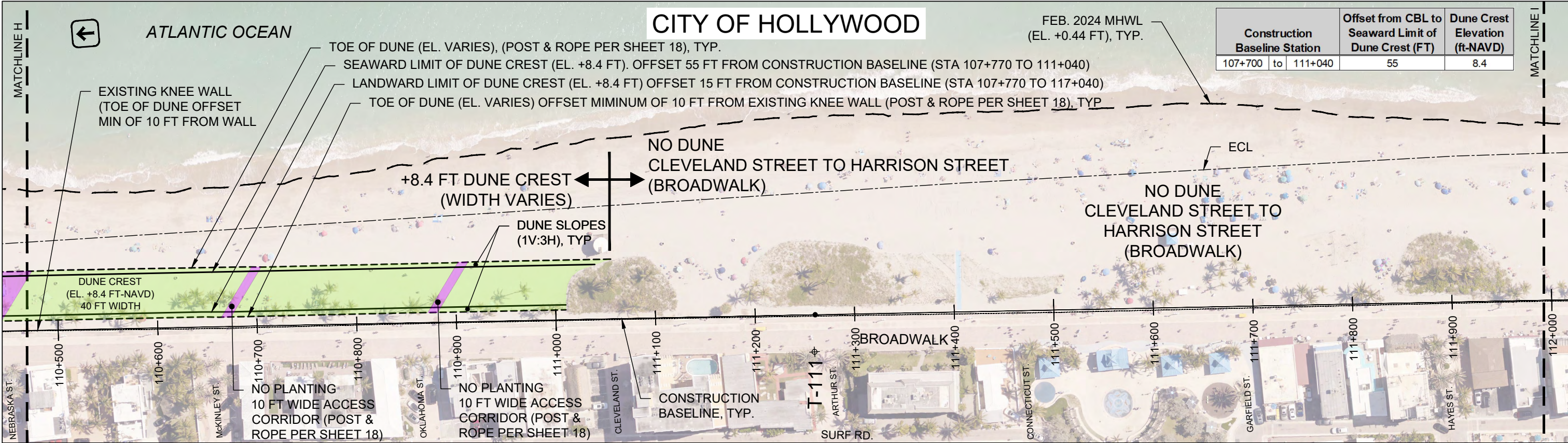
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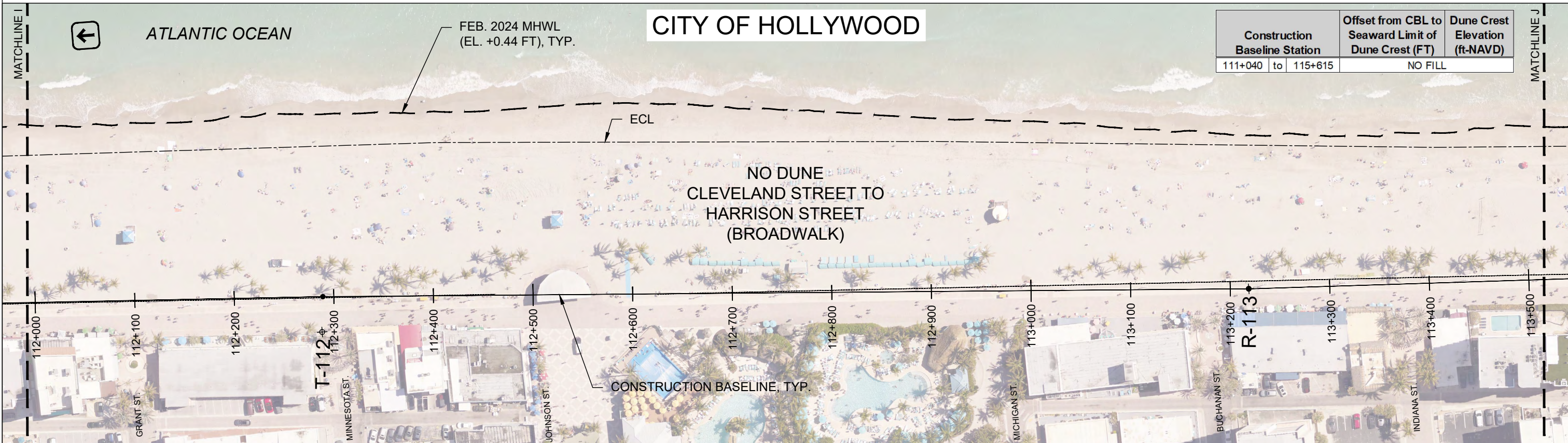
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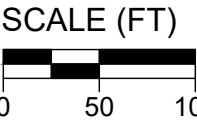


Construction Baseline Station	Offset from CBL to Seaward Limit of Dune Crest (FT)	Dune Crest Elevation (ft-NAVD)
107+700 to 111+040	55	8.4



Construction Baseline Station	Offset from CBL to Seaward Limit of Dune Crest (FT)	Dune Crest Elevation (ft-NAVD)
111+040 to 115+615	NO FILL	

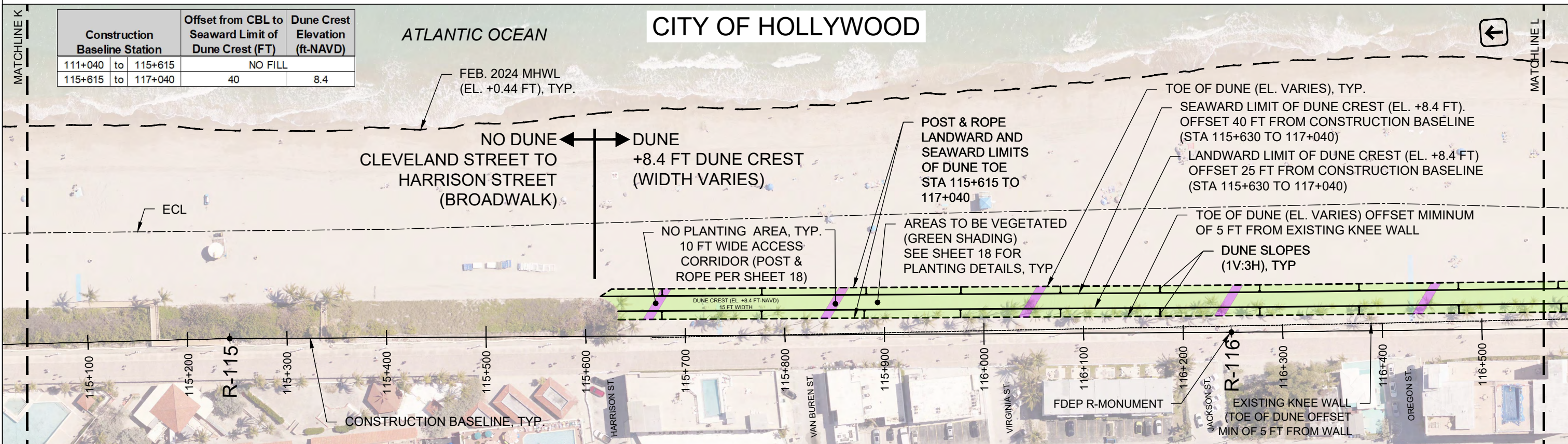
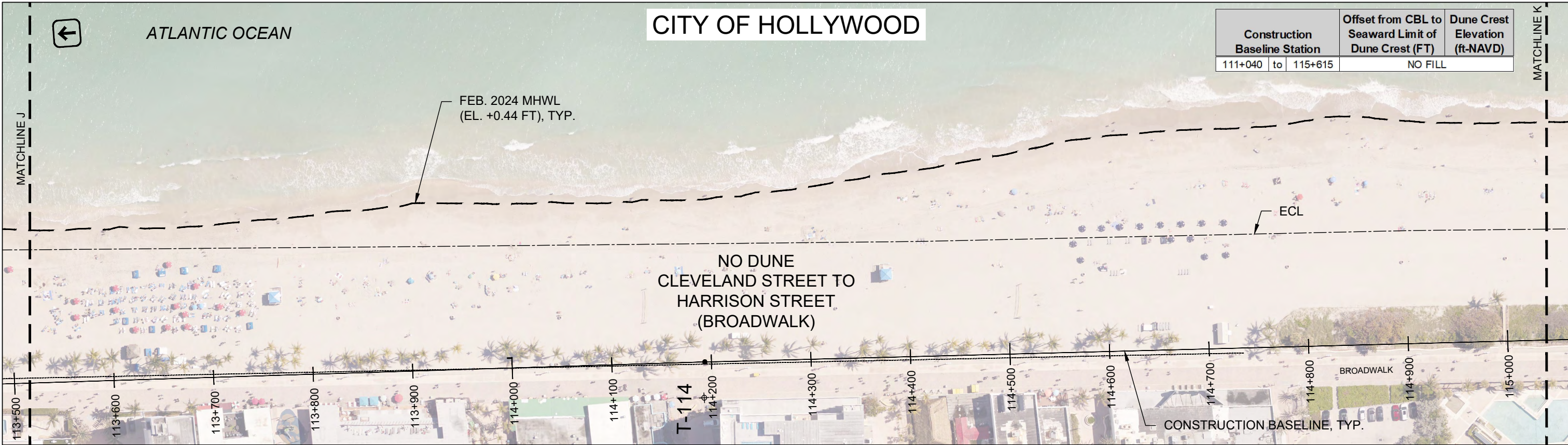
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 - PLANTING MAY EXTEND LANDWARD OF CONSTRUCTED DUNE FILL TO EXISTING VEGETATION, AS DIRECTED BY COUNTY OR ENGINEER.



REVISIONS			
LTR	DESCRIPTION	BY	DATE

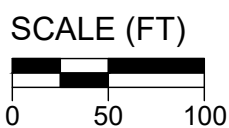


DANIA / HOLLYWOOD / HALLANDALE DUNE PROJECT BROWARD COUNTY, FLORIDA PLAN OF IMPROVEMENT	
DRAWN BY: WAH	DATE: 03/28/2025
CHECKED BY:	DATE:



NOTES:

1. DATE OF SURVEY & AERIAL PHOTO: FEBRUARY 21, 2024 (LIDAR)
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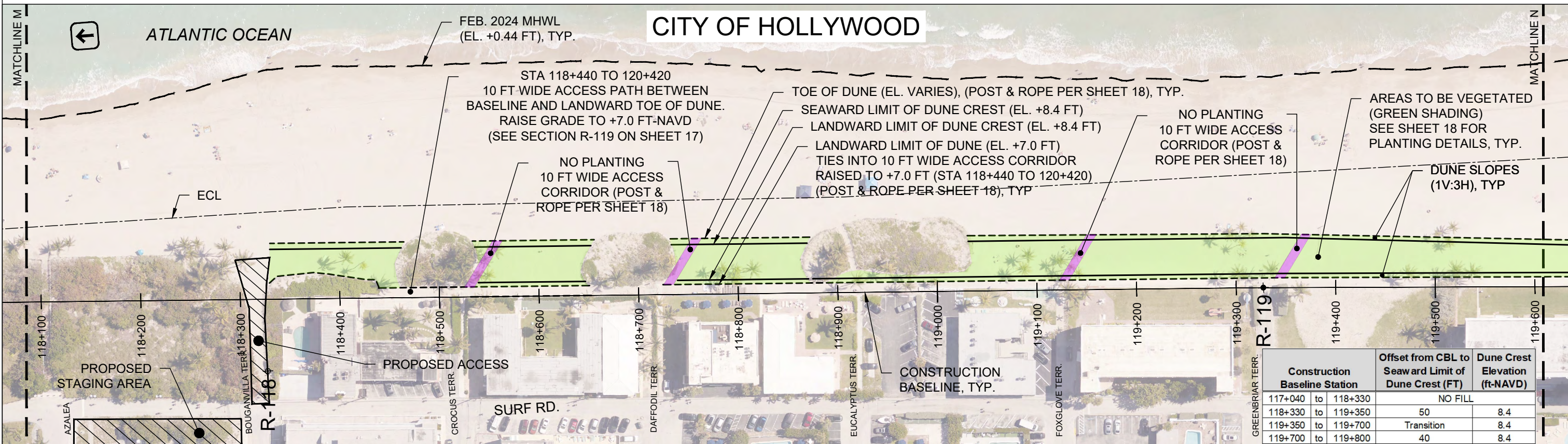
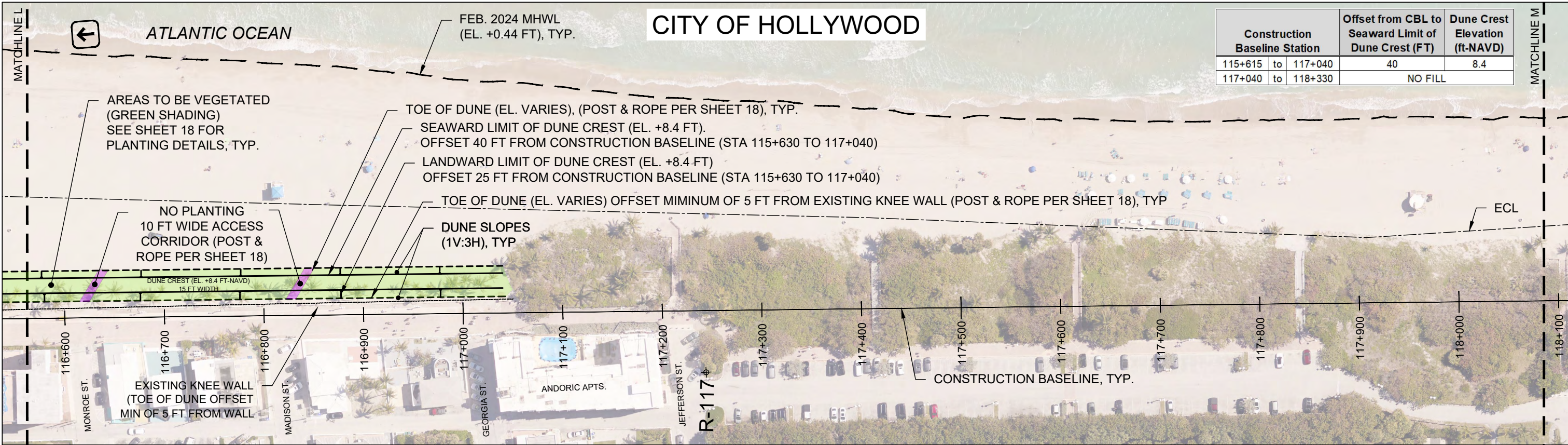


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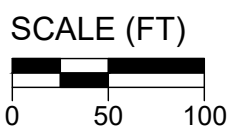
DANIA / HOLLYWOOD / HALLANDALE DUNE PROJECT BROWARD COUNTY, FLORIDA PLAN OF IMPROVEMENT	
DRAWN BY: WAH	DATE: 03/28/2025
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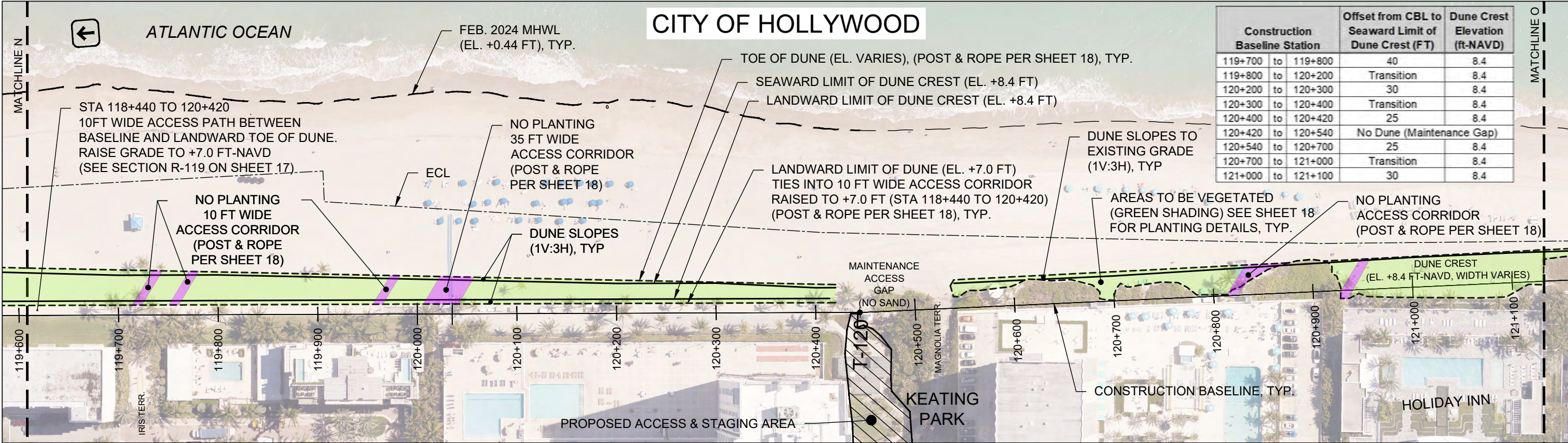


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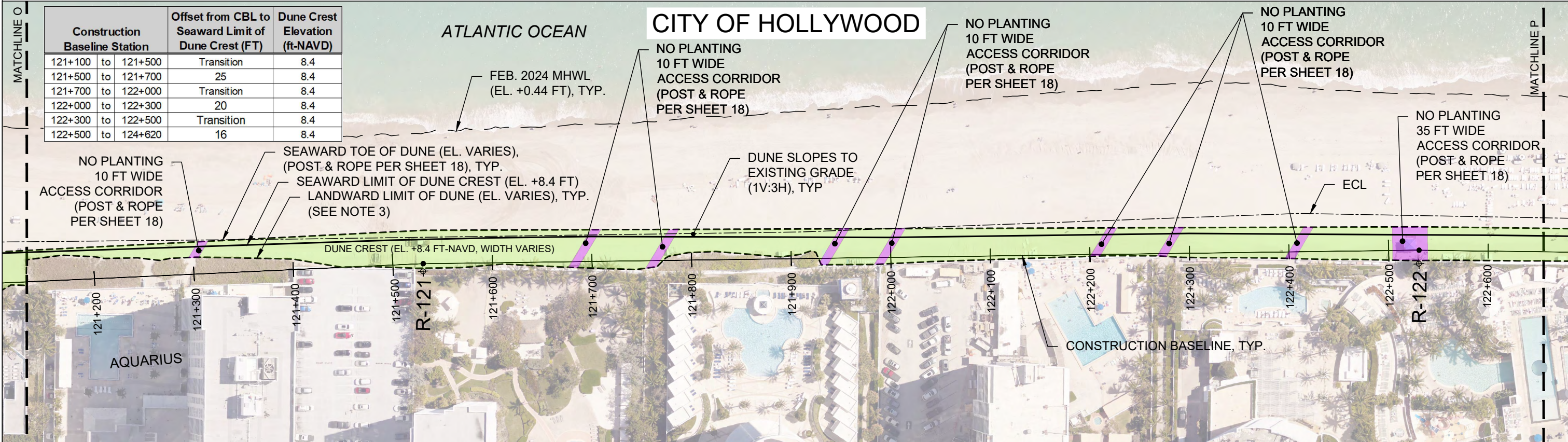
Construction Baseline Station		Offset from CBL to Seaward Limit of Dune Crest (FT)	Dune Crest Elevation (ft-NAVD)
117+040	to 118+330	NO FILL	
118+330	to 119+350	50	8.4
119+350	to 119+700	Transition	8.4
119+700	to 119+800	40	8.4

DANIA / HOLLYWOOD / HALLANDALE
DUNE PROJECT
BROWARD COUNTY, FLORIDA
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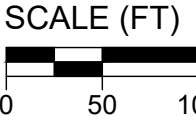


Construction Baseline Station	Offset from CBL to Seaward Limit of Dune Crest (FT)	Dune Crest Elevation (ft-NAVD)
119+700 to 119+800	40	8.4
119+800 to 120+200	Transition	8.4
120+200 to 120+300	30	8.4
120+300 to 120+400	Transition	8.4
120+400 to 120+420	25	8.4
120+420 to 120+540	No Dune (Maintenance Gap)	
120+540 to 120+700	25	8.4
120+700 to 121+000	Transition	8.4
121+000 to 121+100	30	8.4



Construction Baseline Station	Offset from CBL to Seaward Limit of Dune Crest (FT)	Dune Crest Elevation (ft-NAVD)
121+100 to 121+500	Transition	8.4
121+500 to 121+700	25	8.4
121+700 to 122+000	Transition	8.4
122+000 to 122+300	20	8.4
122+300 to 122+500	Transition	8.4
122+500 to 124+620	16	8.4

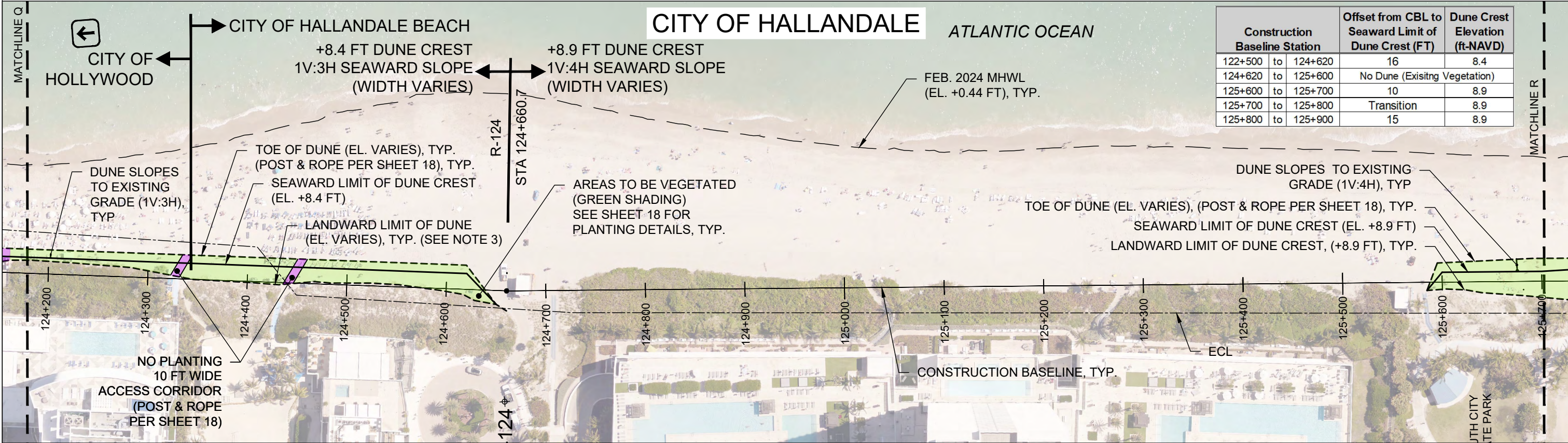
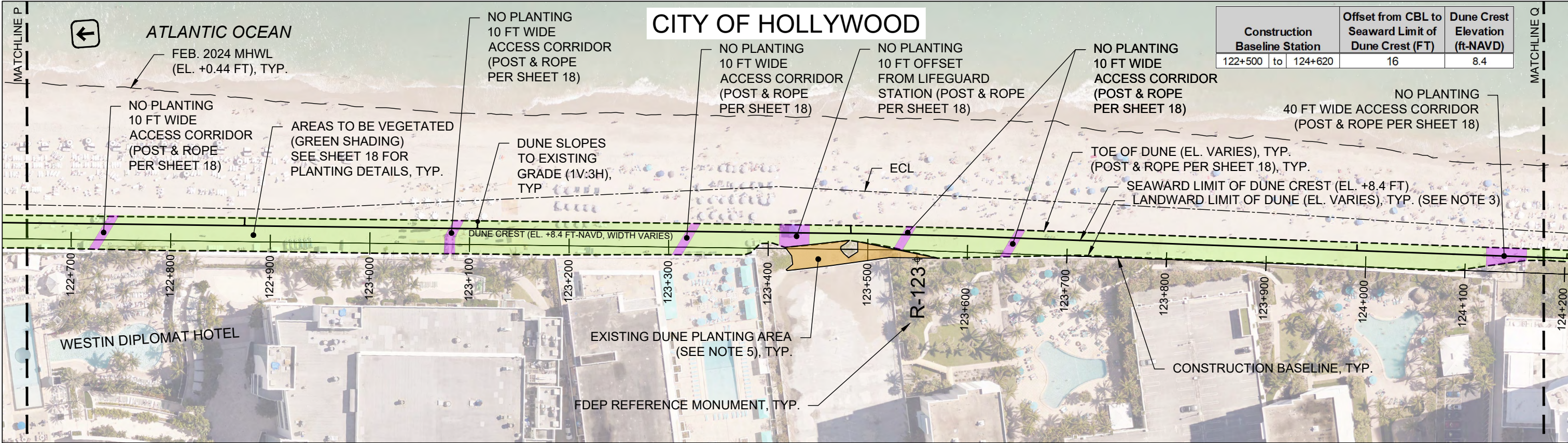
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REVISIONS			
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DANIA / HOLLYWOOD / HALLANDALE DUNE PROJECT BROWARD COUNTY, FLORIDA PLAN OF IMPROVEMENT	
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SCALE (FT)

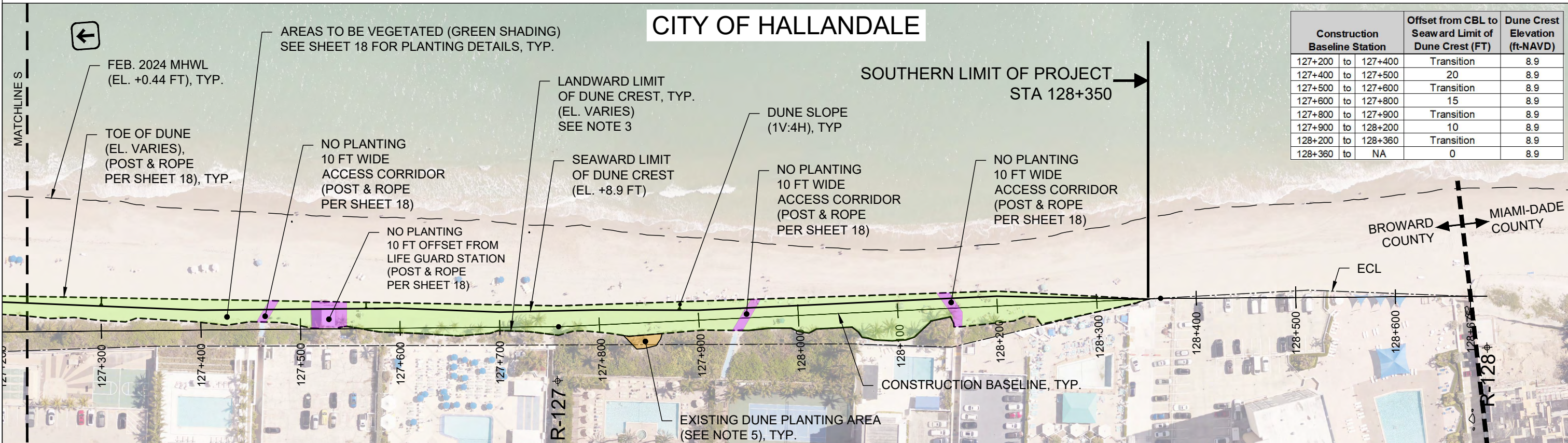
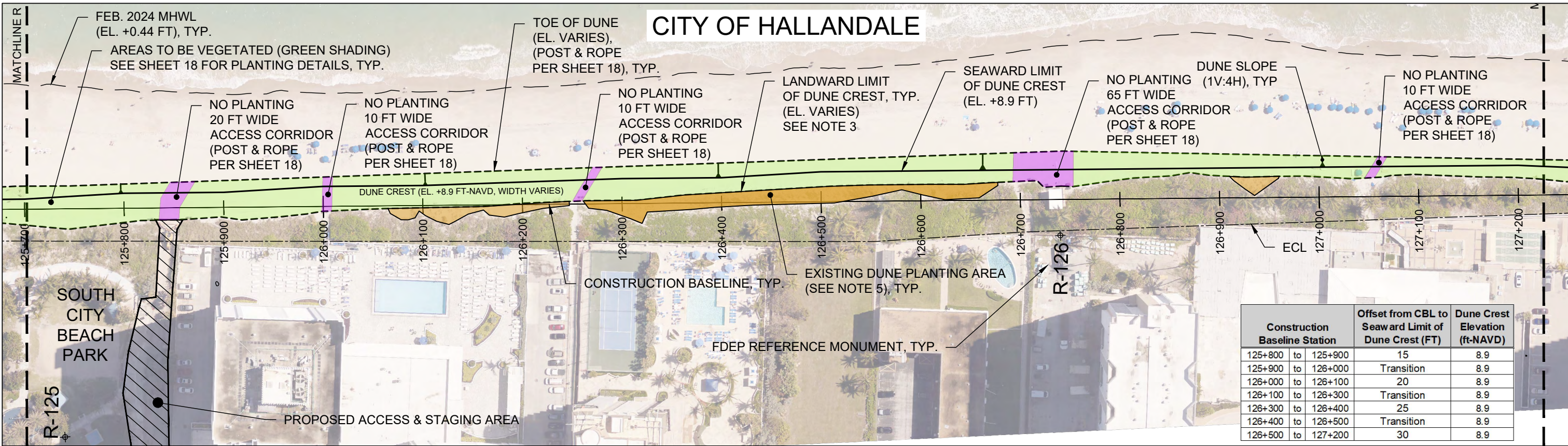
REVISIONS			
LTR	DESCRIPTION	BY	DATE

COA: 32549

DANIA / HOLLYWOOD / HALLANDALE
DUNE PROJECT
BROWARD COUNTY, FLORIDA
PLAN OF IMPROVEMENT

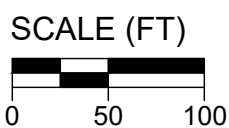
DRAWN BY: WAH DATE: 03/28/2025
CHECKED BY: DATE:

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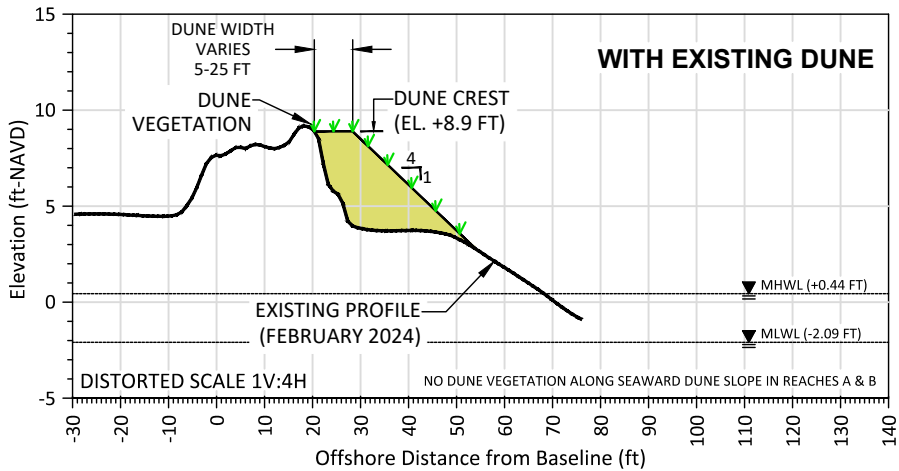
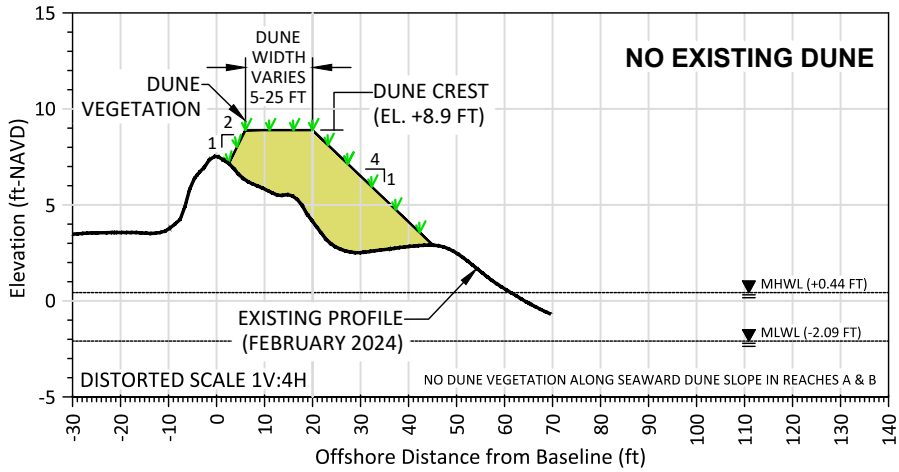
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DANIA / HOLLYWOOD / HALLANDALE
DUNE PROJECT
BROWARD COUNTY, FLORIDA
PLAN OF IMPROVEMENT

DRAWN BY: WAH DATE: 03/28/2025
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TYPICAL DUNE SECTIONS:
DANIA BEACH, NORTHERN HOLLYWOOD & SOUTHERN HALLANDALE BEACH
REACHES A, B, & F
R-98.7 to R-102.0 & R-124.0 to R-128.3



TYPICAL DUNE SECTIONS:
HOLLYWOOD & NORTHERN HALLANDALE BEACH
REACHES C, D, & E
R-102.0 to R-124.0

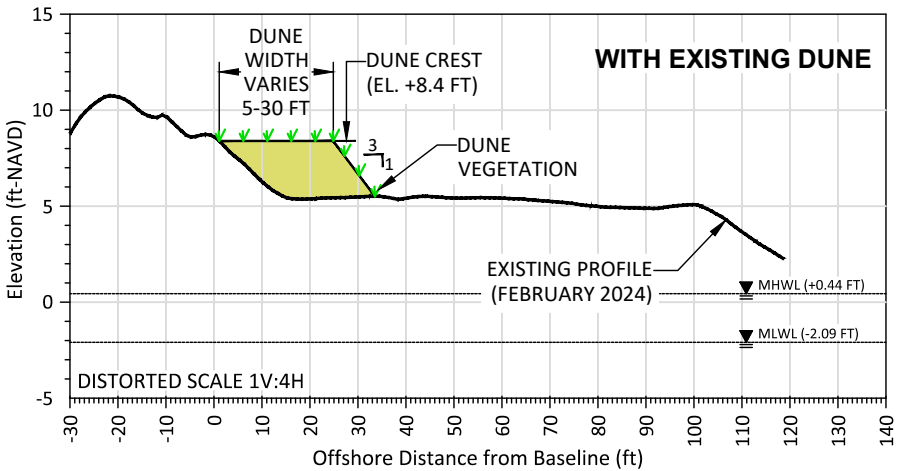
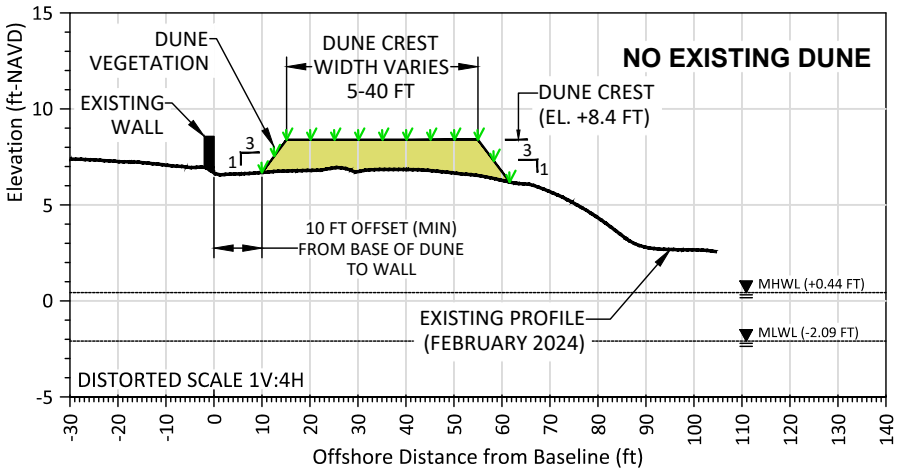


TABLE 1: DUNE FILL TYPICAL DIMENSIONS

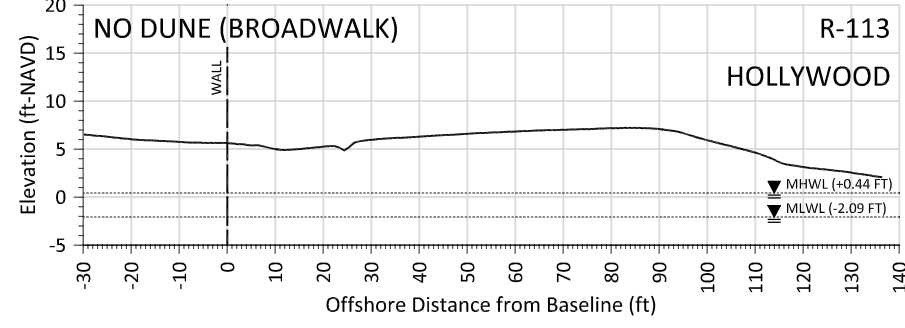
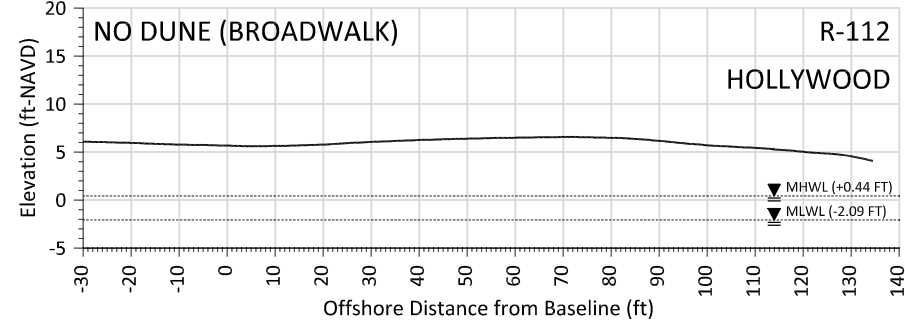
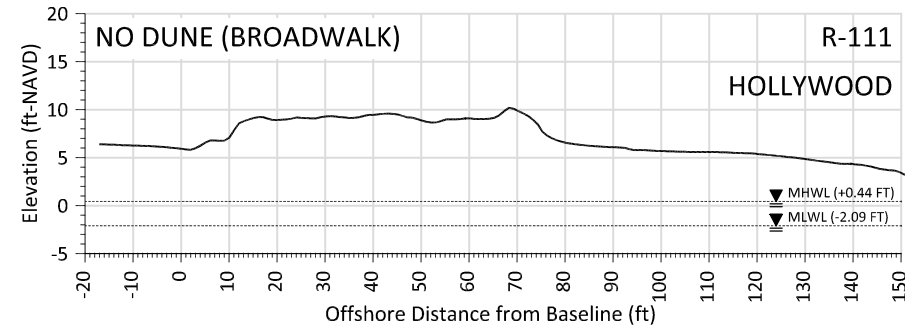
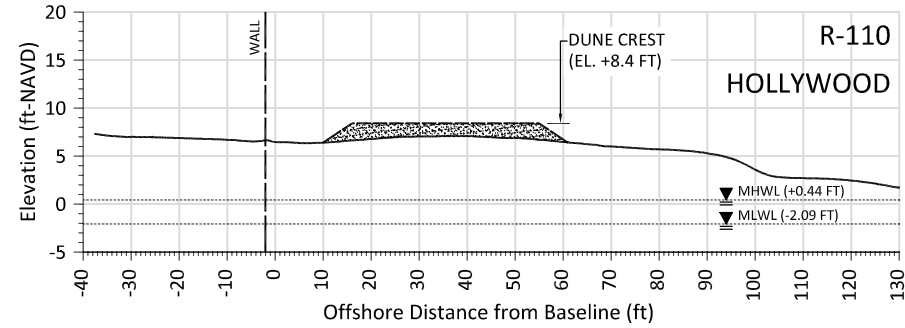
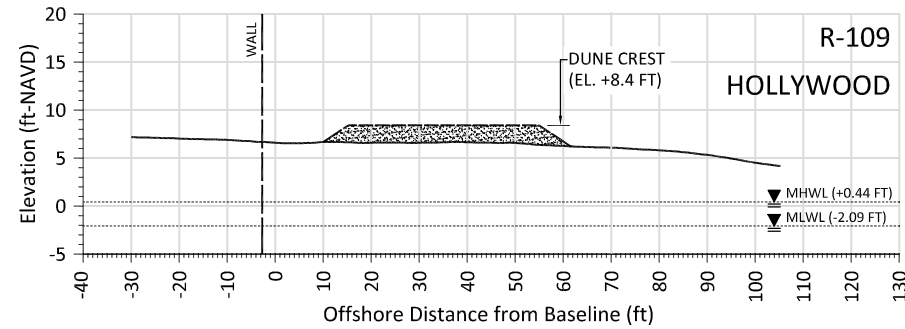
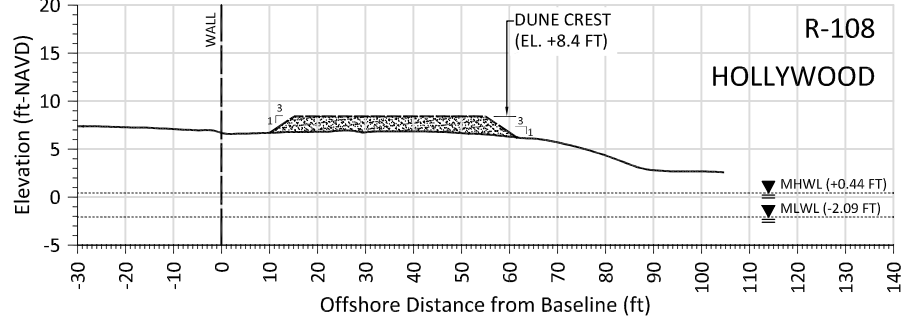
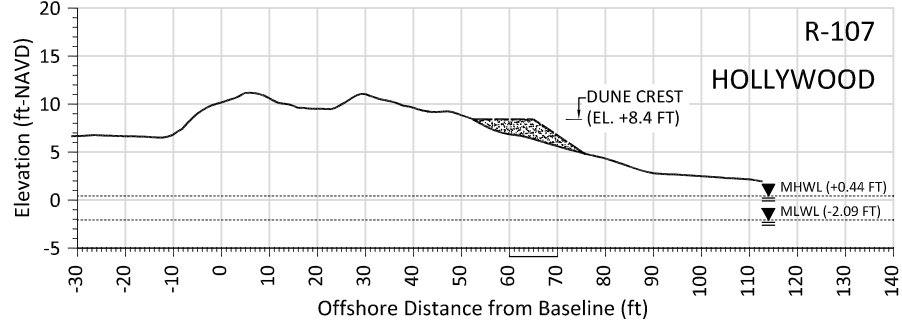
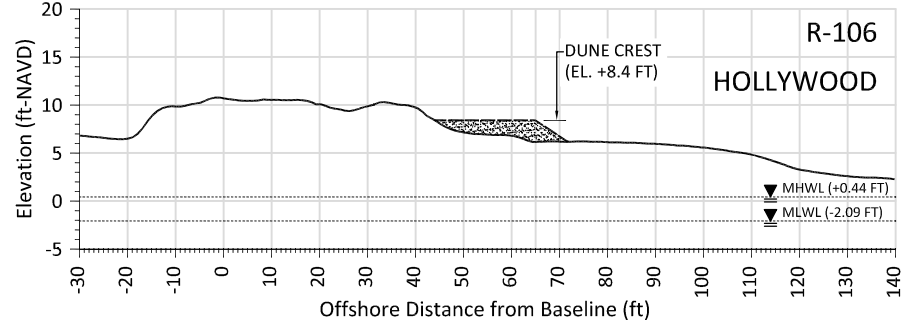
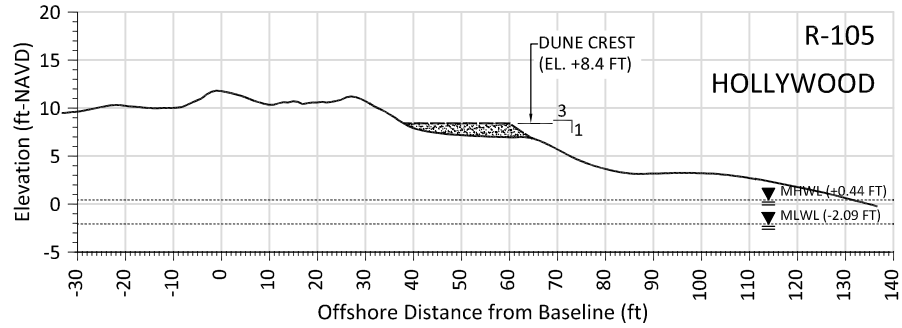
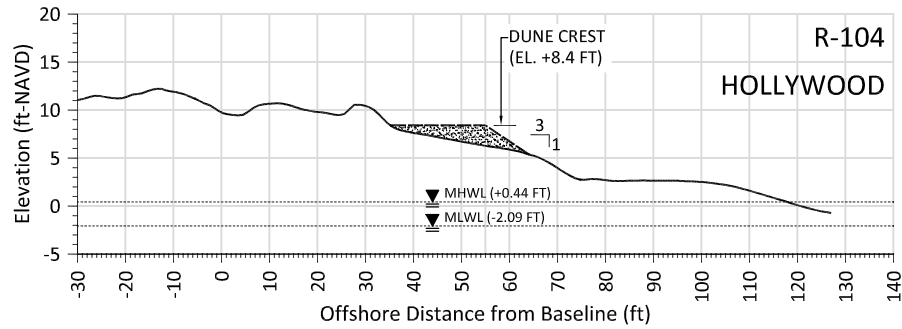
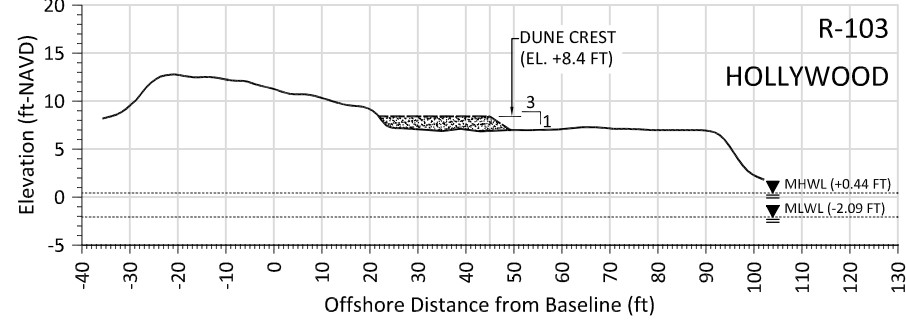
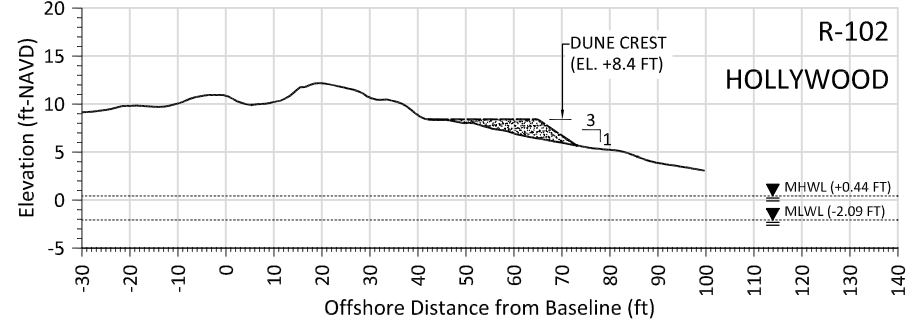
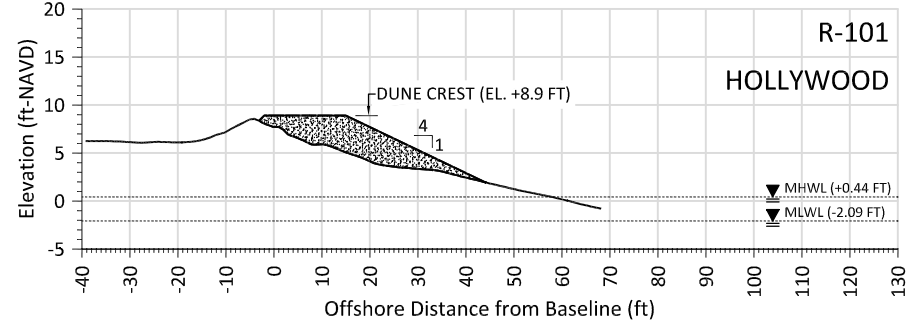
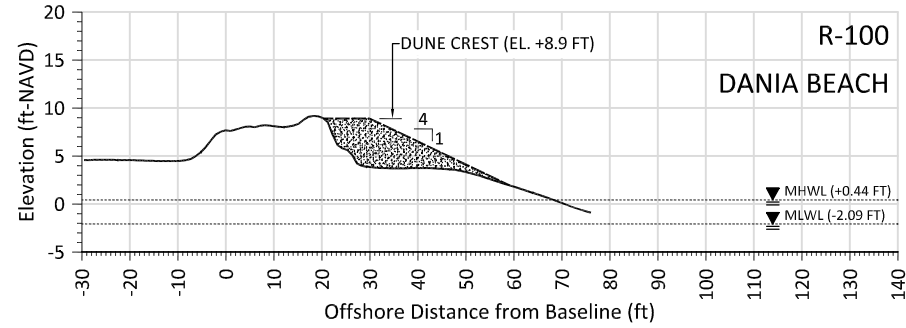
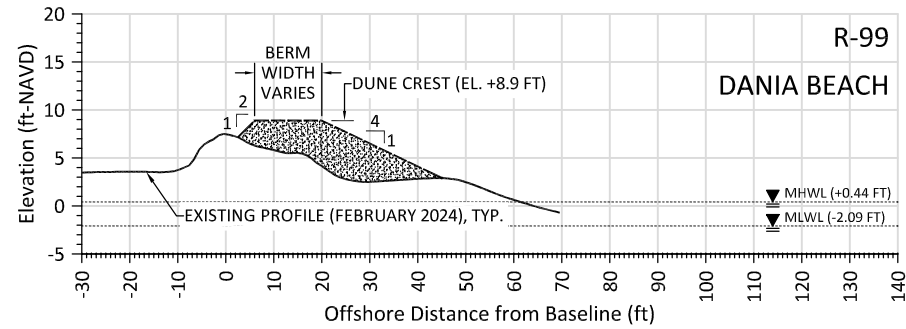
Reach	Reach Description	Baseline Stations		Length (FT)	Dune Crest Elevation (FT-NAVD)	Seaward Dune Slope
		North	South			
A	Dania	98+370	100+300	1,930	8.9	1H:4V
B	Hollywood - 1	100+300	101+590	1,290	8.9	1H:4V
C	Hollywood - 2	102+115	111+055	8,940	8.4	1H:3V
D	Hollywood - 3	115+615	124+340	8,725	8.4	1H:3V
E	Hallandale - 1	124+340	124+650	310	8.4	1H:3V
F	Hallandale - 2	125+585	128+350	2,765	8.9	1H:4V
Total				23,960	NA	NA

- NOTES:
1. LANDWARD LIMIT OF FILL TO AVOID EXISTING VEGETATION.
 2. SEE SHEET 18 FOR DUNE VEGETATION PLANTING DETAILS
 3. PLANTING MAY EXTEND LANDWARD OF CONSTRUCTED DUNE FILL TO EXISTING VEGETATION, AS DIRECTED BY COUNTY OR ENGINEER.
 4. DESIGN BASED UPON FEBRUARY 21, 2024 LIDAR SURVEY.
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 6. OFFSET DISTANCES ARE MEASURED PERPENDICULAR TO THE CONSTRUCTION BASELINE.

REVISIONS			
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DANIA / HOLLYWOOD / HALLANDALE DUNE PROJECT BROWARD COUNTY, FLORIDA DUNE FILL DIMENSIONS	
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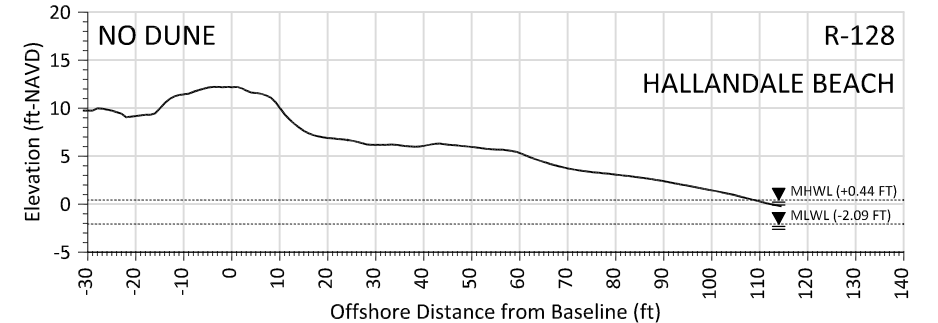
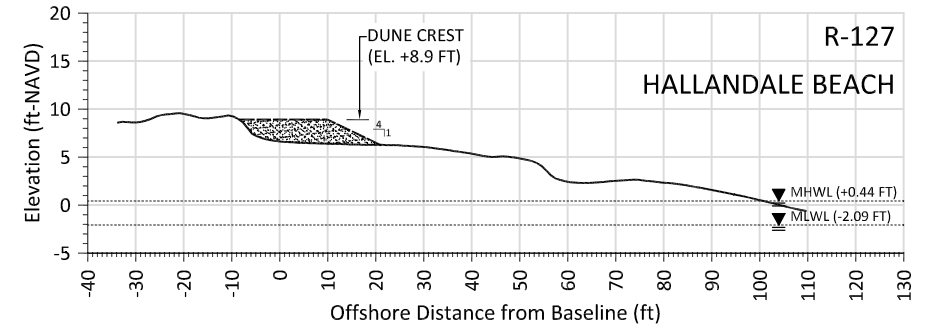
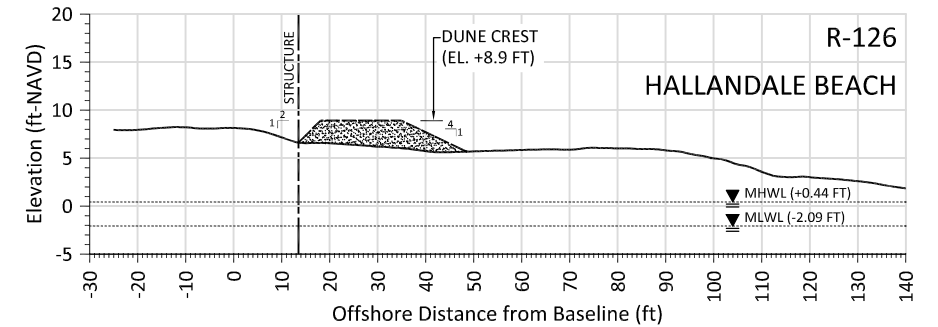
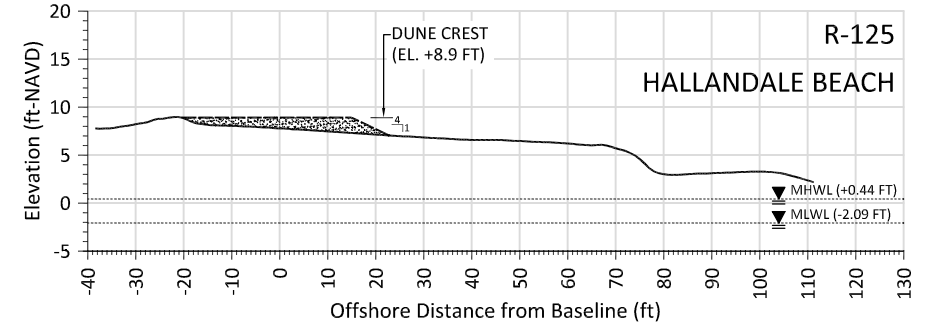
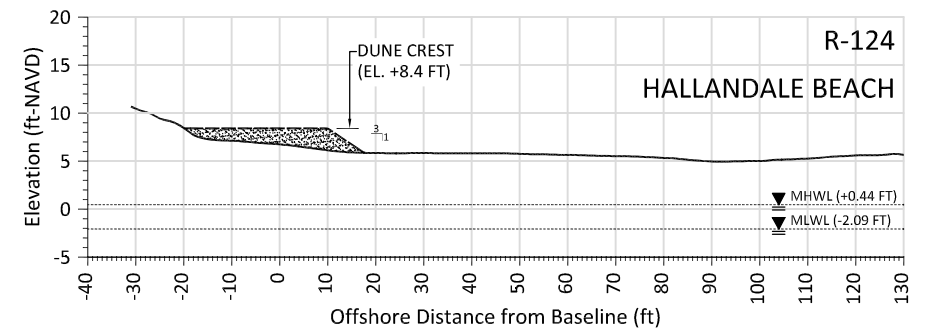
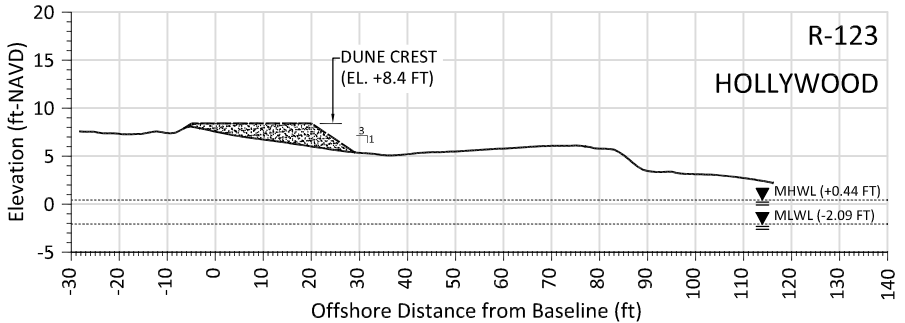
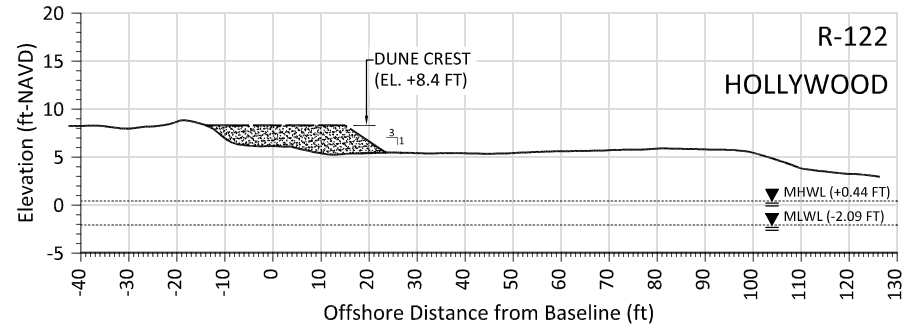
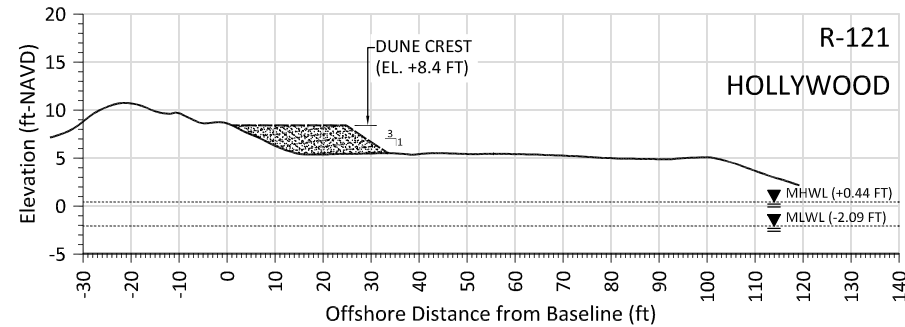
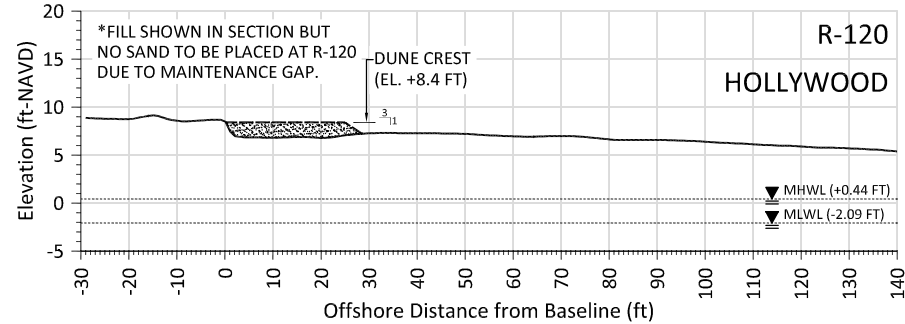
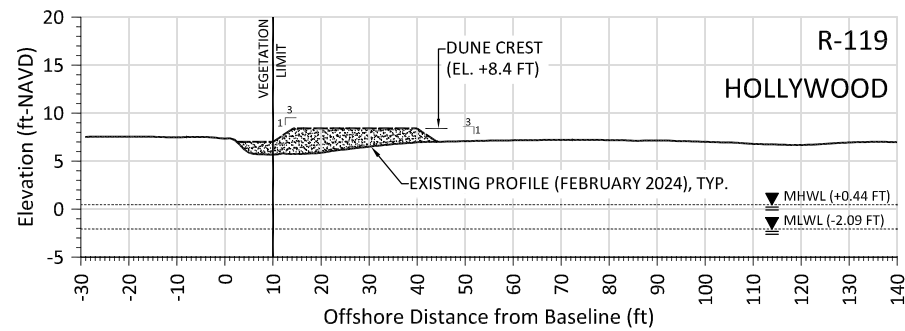
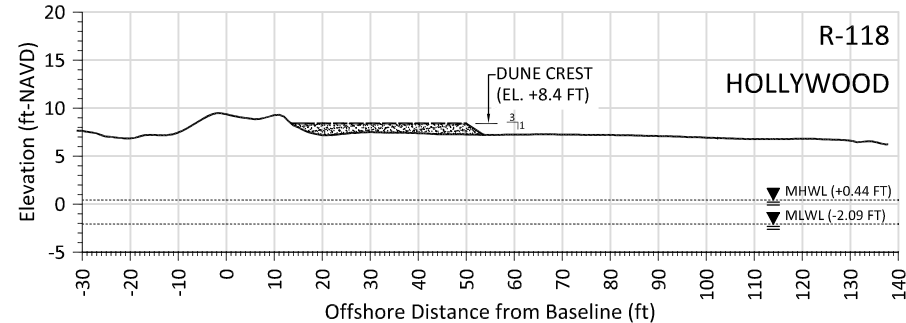
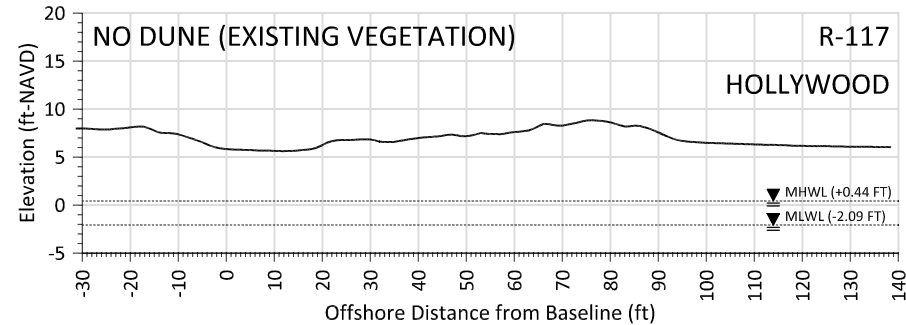
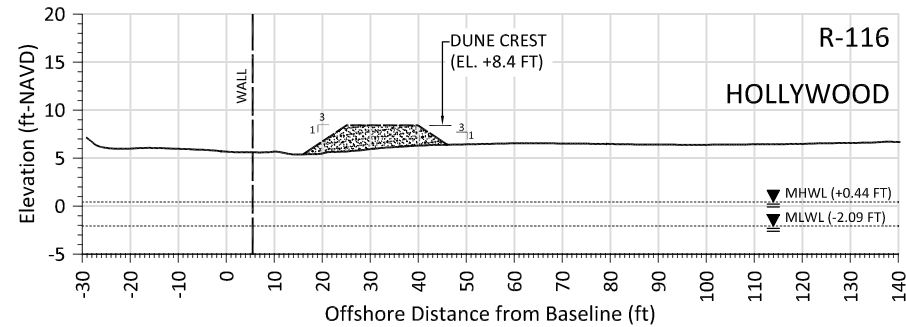
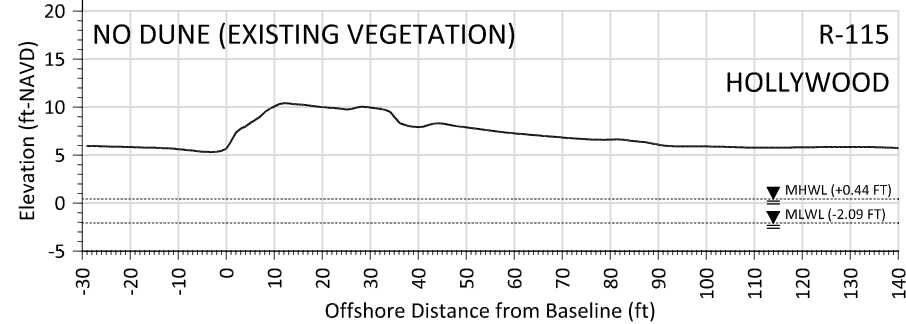
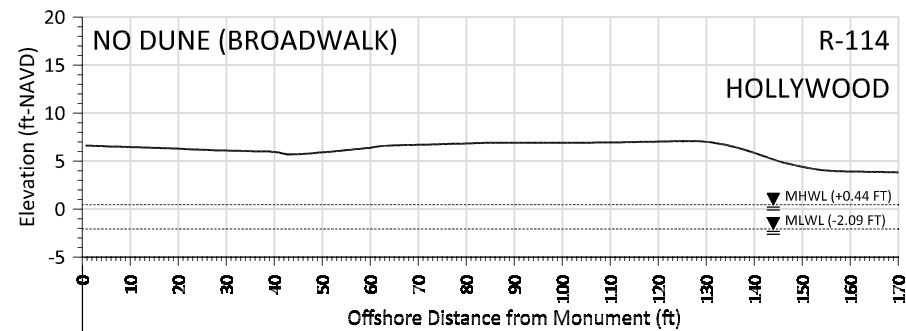
DANIA / HOLLYWOOD / HALLANDALE
DUNE PROJECT
BROWARD COUNTY, FLORIDA
DUNE FILL SECTIONS

DRAWN BY: WAH DATE: 03/28/2025
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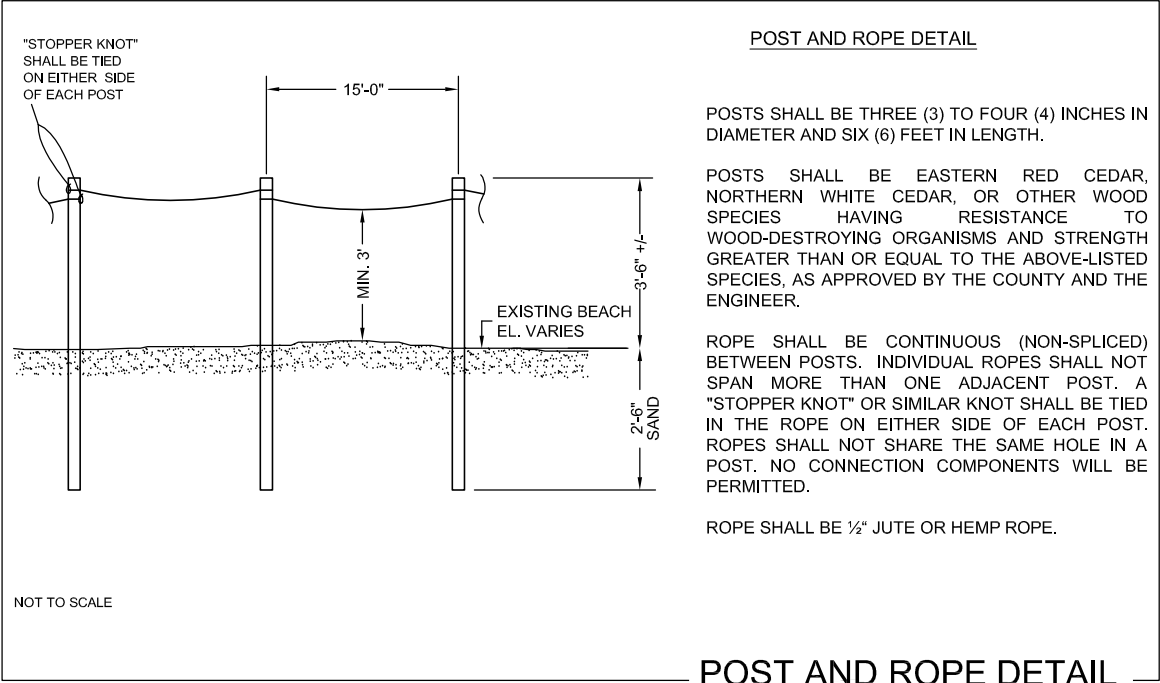
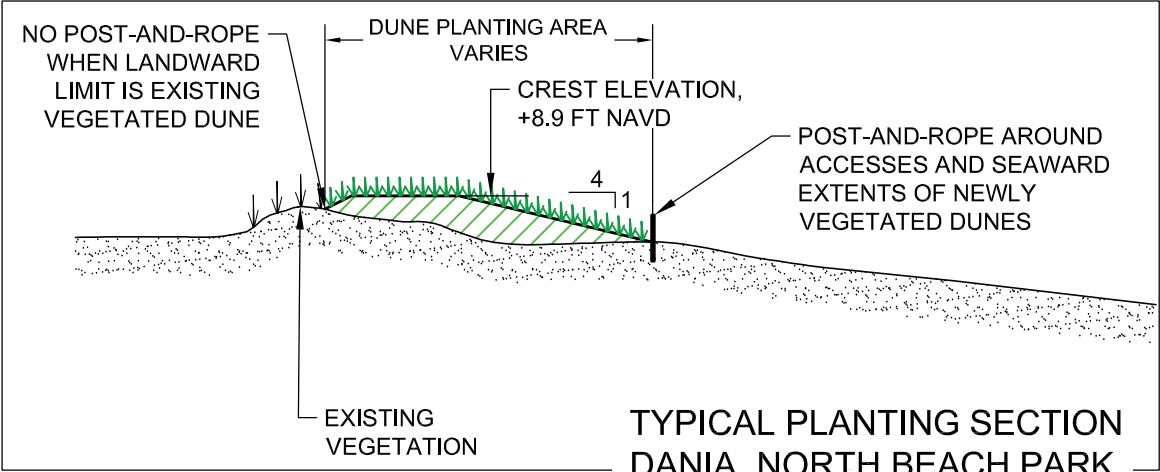
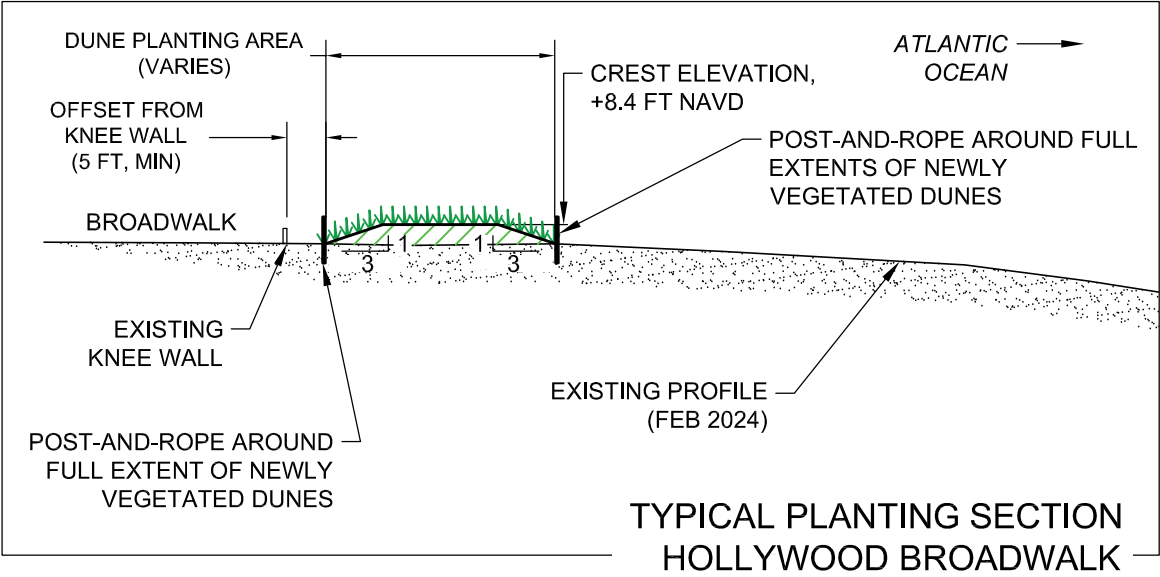


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 5. OFFSET DISTANCES ARE MEASURED PERPENDICULAR TO THE CONSTRUCTION BASELINE.

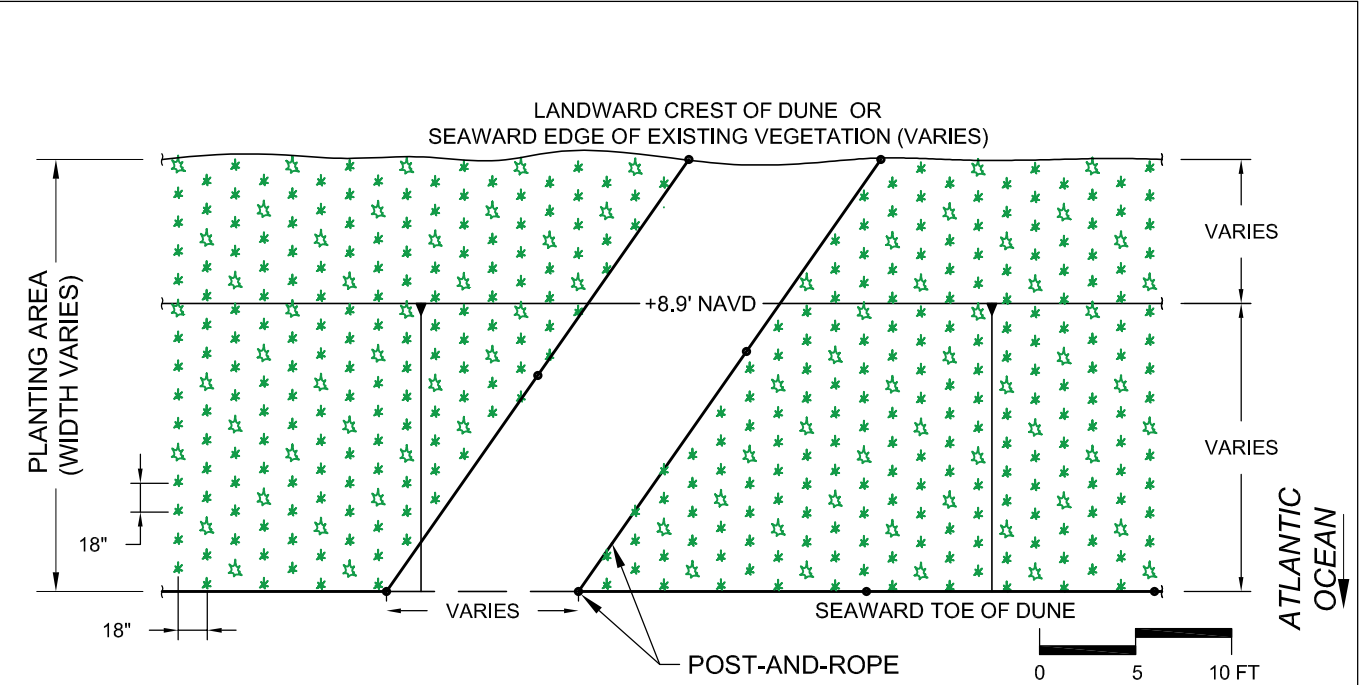
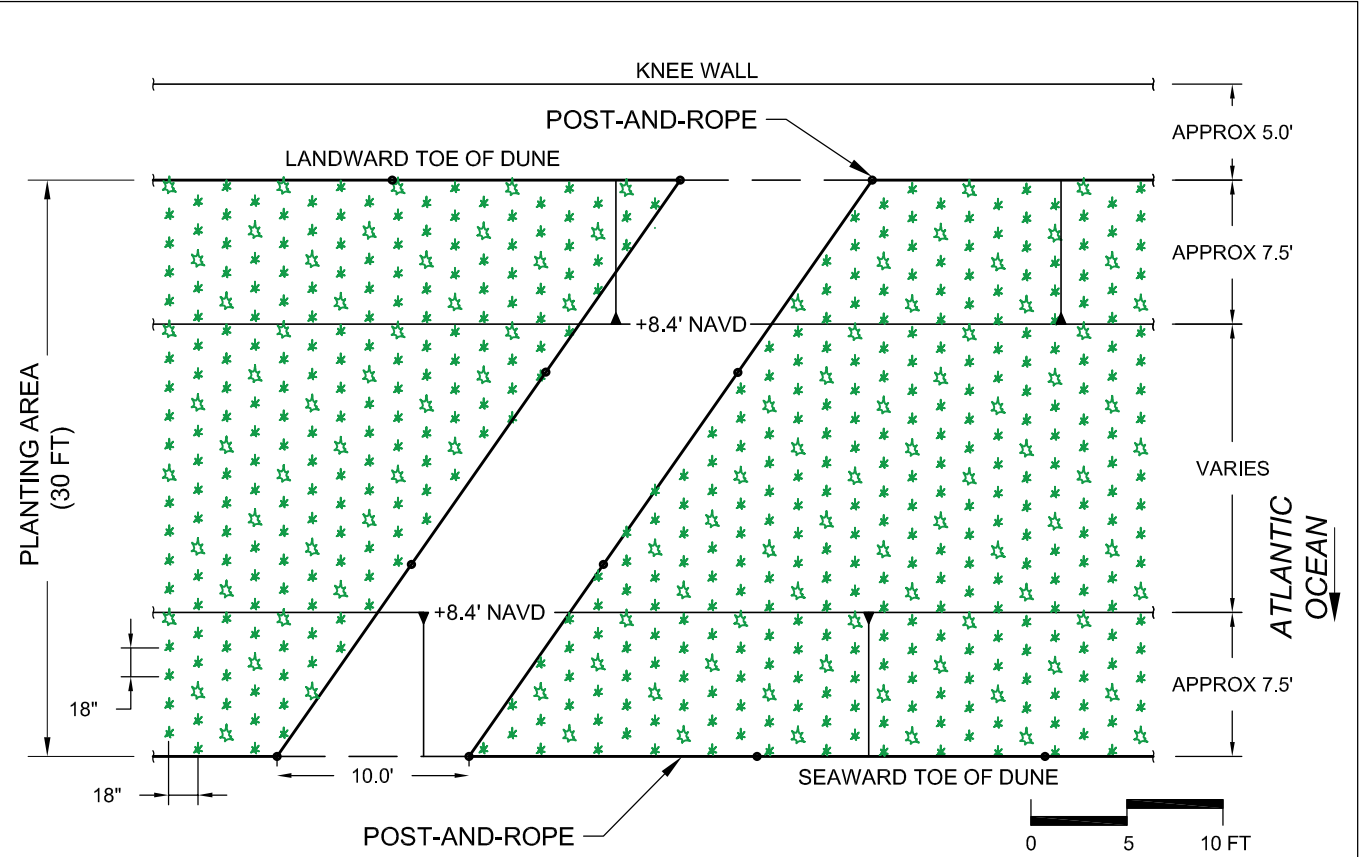
REVISIONS			
LTR	DESCRIPTION	BY	DATE



DANIA / HOLLYWOOD / HALLANDALE DUNE PROJECT BROWARD COUNTY, FLORIDA DUNE FILL SECTIONS		SHEET 17 of 18
DRAWN BY: WAH	DATE: 03/28/2025	
CHECKED BY:	DATE:	



- NOTES:
1. LANDWARD LIMIT OF FILL TO AVOID EXISTING VEGETATION.
 2. PLANTING MAY EXTEND LANDWARD OF CONSTRUCTED DUNE FILL TO EXISTING VEGETATION, AS DIRECTED BY COUNTY OR ENGINEER.
 3. DESIGN BASED UPON FEBRUARY 21, 2024 LIDAR SURVEY.
 4. LOCATION OF DUNE AND VEGETATION SUBJECT TO CHANGE FOLLOWING PRE-CONSTRUCTION SURVEY (BY CONTRACTOR).



- DUNE GRASSES 80% (APPROX.)**
- SEA OATS (*Uniola paniculata*)
 - SALTMEADOW CORDGRASS (*Spartina patens*)
- DIVERSITY SPECIES 20% (APPROX.)**
- SEA LAVENDER (*Tournefortia gnaphalodes*)
 - DUNE SUNFLOWER (*Helianthus debilis*; not *Vestitus*)
 - BEACH BEAN (*Canavalia rosea*)
 - RAILROAD VINE (*Ipomoea pes-caprae*)

PLANTING SPECIES DISTRIBUTION

REVISIONS			
LTR	DESCRIPTION	BY	DATE



DANIA / HOLLYWOOD / HALLANDALE DUNE PROJECT BROWARD COUNTY, FLORIDA	
DUNE PLANTING DETAILS	
DRAWN BY: WAH	DATE: 03/28/2025
CHECKED BY:	DATE: