COASTAL STORM RISK MANAGEMENT PROJECT
SOUTH PONTE VEDRA AND VILANO BEACH
ST. JOHNS COUNTY, FLORIDA

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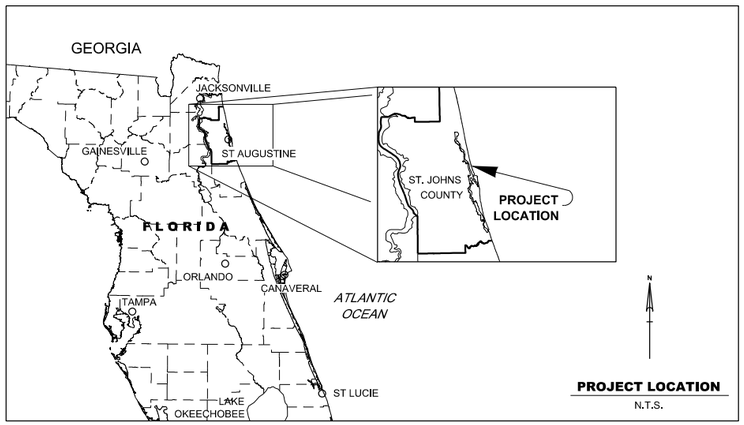


PROJECT LOCATION
N.T.S.

GENERAL NOTES

1. THIS PROJECT WAS DESIGNED BY THE JACKSONVILLE DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110-1-8152.

2. ALL PLANIMETRIC LAND FEATURES DEPICTED ON THESE PLANS ARE FOR INFORMATION ONLY AND WERE NOT PHYSICALLY LOCATED BY SURVEY UNLESS OTHERWISE INDICATED.

3. UNLESS OTHERWISE STATED, THE SPATIAL COORDINATES SHOWN HEREIN 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)).

4. UNLESS OTHERWISE STATED, VERTICAL ELEVATIONS SHOWN HEREIN ARE IN U. S. SURVEY FEET AND REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). ALL ELEVATIONS SHOWN ABOVE REFERENCED DATUM WILL BE ASSIGNED THE PLUS SYMBOL (+). ELEVATIONS BELOW THE REFERENCED DATUM ARE NOT ASSIGNED A SYMBOL.

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

6. 2016 AERIAL PHOTOGRAPHY SHOWN FOR GENERAL INFORMATION ONLY AND NOT TO BE USED FOR MEASUREMENTS.

7. SURVEY DETAILS
   BEACH PROFILES: FEB 2019, SURVEY # 19-010.
   DAVIS SHOAL BORROW AREA: DEC 2018: JAN 2019, SURVEY # 19-048.
   FLOOD AND EBB SHOAL BORROW AREAS: JUL 2018, SURVEY # 17-152.
   IWW BORROW SHOAL & WIDENER BORROW AREAS: OCT 2018, SURVEY # 19-005.

ABBREVIATIONS

CBL	=	CONSTRUCTION BASELINE
DWG	=	DRAWING
ELEV	=	ELEVATION
ECL	=	EROSION CONTROL LINE
EOB	=	EDGE OF BERM
EXIST	=	EXISTING
MHW	=	MEAN HIGH WATER
MLW	=	MEAN LOW WATER
NAD	=	NORTH AMERICAN DATUM
NAVD	=	NORTH AMERICAN VERTICAL DATUM
NTS	=	NOT TO SCALE
PI	=	POINT OF INTERSECTION
RGE	=	RANGE
STA	=	STATIONING
TOL	=	TOLERANCE
TYP	=	TYPICAL
USACE	=	U S ARMY CORPS OF ENGINEERS

LEGEND

- BEACH FILL AREA (PLAN VIEW)
- BEACH FILL AREA (PROFILE VIEW)
- EXISTING GRADE
- AVOIDANCE AREA WITH BUFFER
- PIPELINE CORRIDOR
- FILL SLOPE SYMBOL
- RANGE LINE MONUMENT
- TOE OF CONSTRUCTION SLOPE
- VIBRACORE BORING / CORE BORING
- GRAB SAMPLE
- DUNE VEGETATION (PROFILE VIEW)
- DUNE VEGETATION (PLAN VIEW)
- EXISTING MHWL
- STAGING AND ACCESS AREA
- BORROW AREA MAX DEPTHS — 24.0
- TIDAL DIRECTION — EBB / FLOOD

US Army Corps of Engineers
Jacksonville District

DESIGNED BY: W. REILLY
DRAWN BY: R. PINTO
CHECKED BY: M. NEVES
U.S. ARMY CORPS OF ENGINEERS JACKSONVILLE DISTRICT

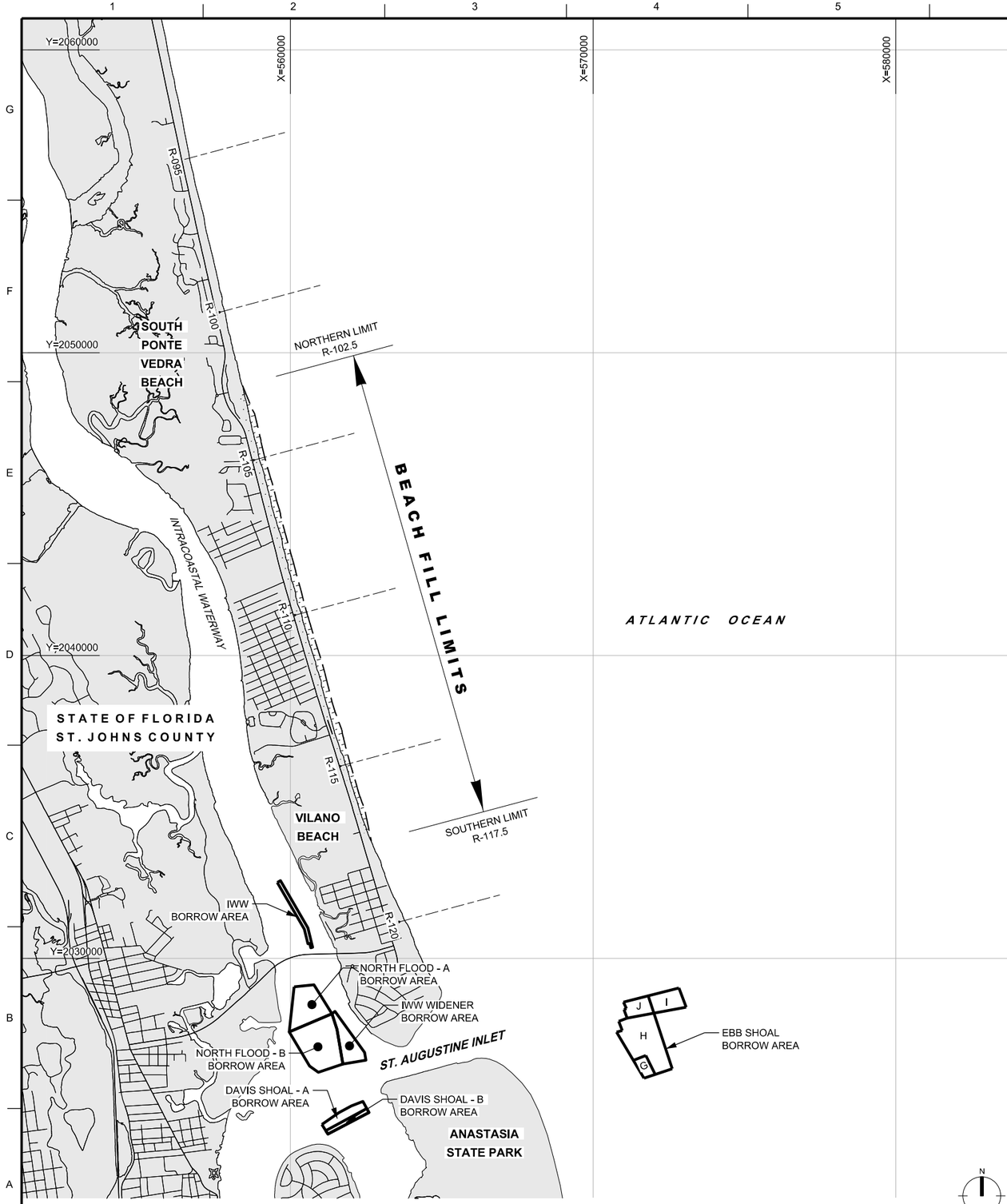
FDEP WQC PERMIT PLATE
NOT FOR CONSTRUCTION

DESCRIPTION	DATE
RAI #001 RESPONSE	NOV 2019
RAI #001 RESPONSE	AUG 2019

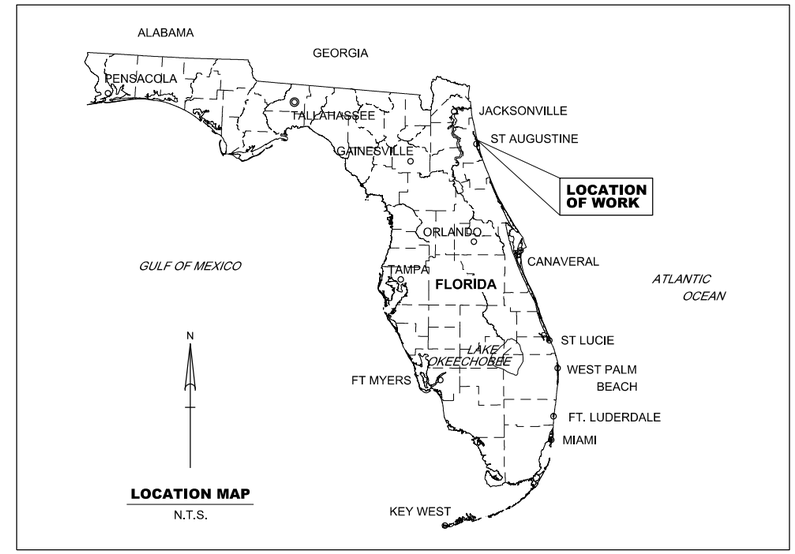
COASTAL STORM RISK MANAGEMENT PROJECT
SOUTH PONTE VEDRA AND VILANO BEACH
ST. JOHNS COUNTY, FL
COVER, LEGEND, GENERAL NOTES, ABBREVIATIONS, AND SHEET INDEX

DATED: NOV 2019

PLATE
PL-01



VICINITY MAP



LOCATION MAP
N.T.S.

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ST. JOHNS COUNTY, FL

PROJECT OVERVIEW

DATED:
NOV 2019

PLATE
PL-02

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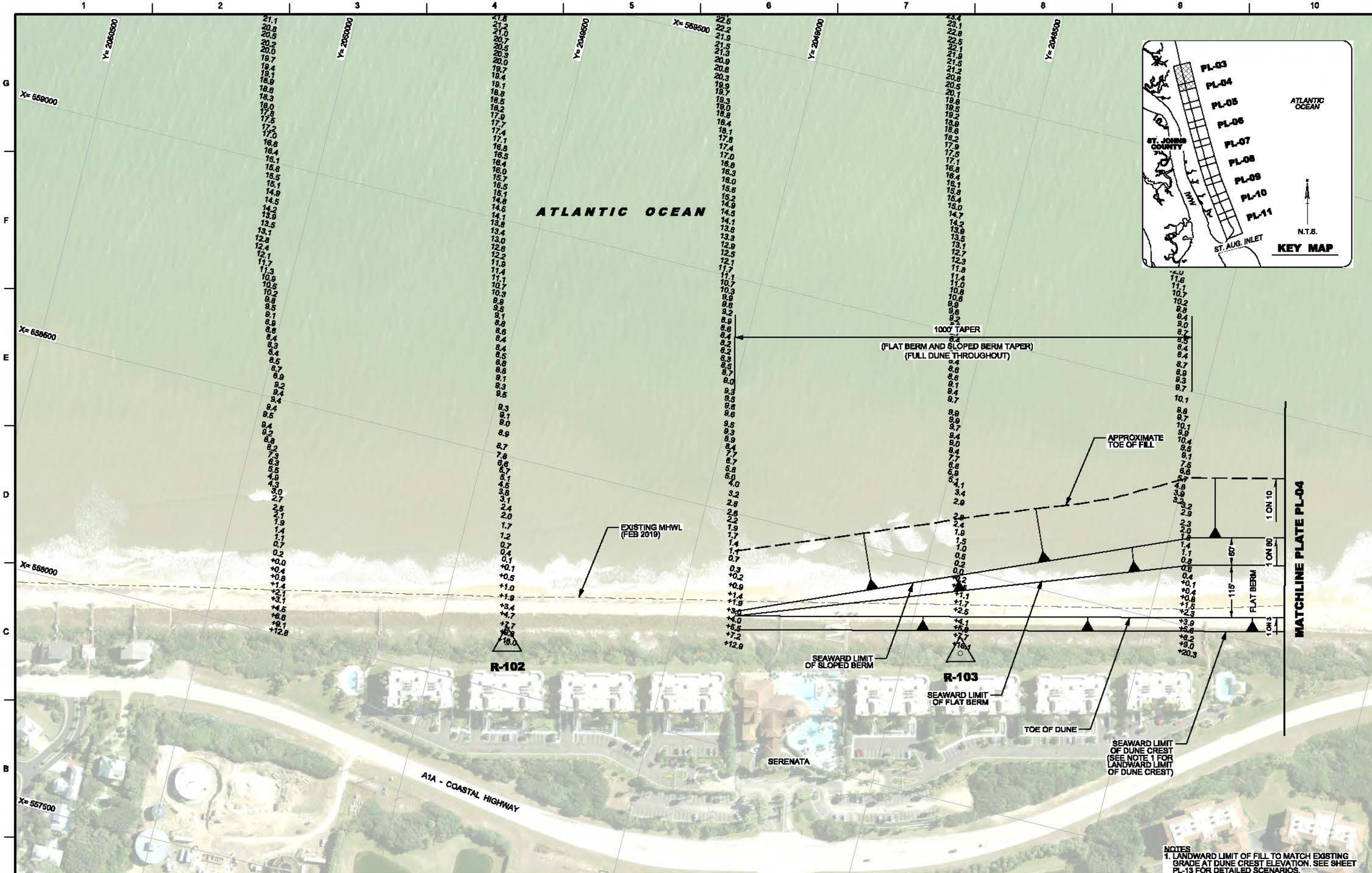
2019 NOV



BEACH FILL PLAN

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Jacksonville District

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JACKSONVILLE DISTRICT

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ST. JOHNS COUNTY, FL

BEACH FILL - PLAN VIEW

DATED:
NOV 2019

PLATE
PL-03

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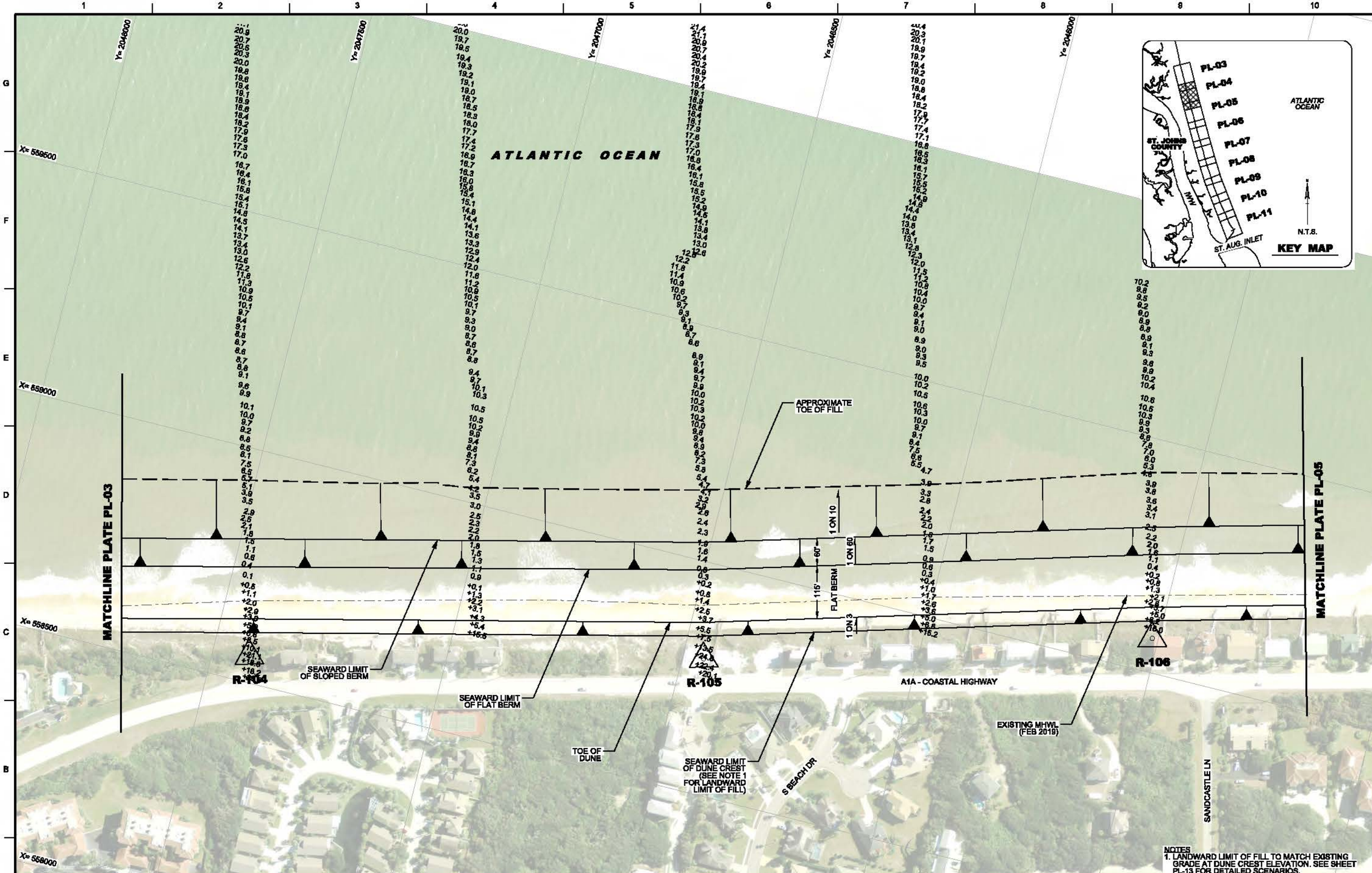
2019 NOV



BEACH FILL PLAN

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COASTAL STORM RISK MANAGEMENT PROJECT
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ST. JOHNS COUNTY, FL

BEACH FILL - PLAN VIEW

DATED:
NOV 2019

PLATE
PL-04

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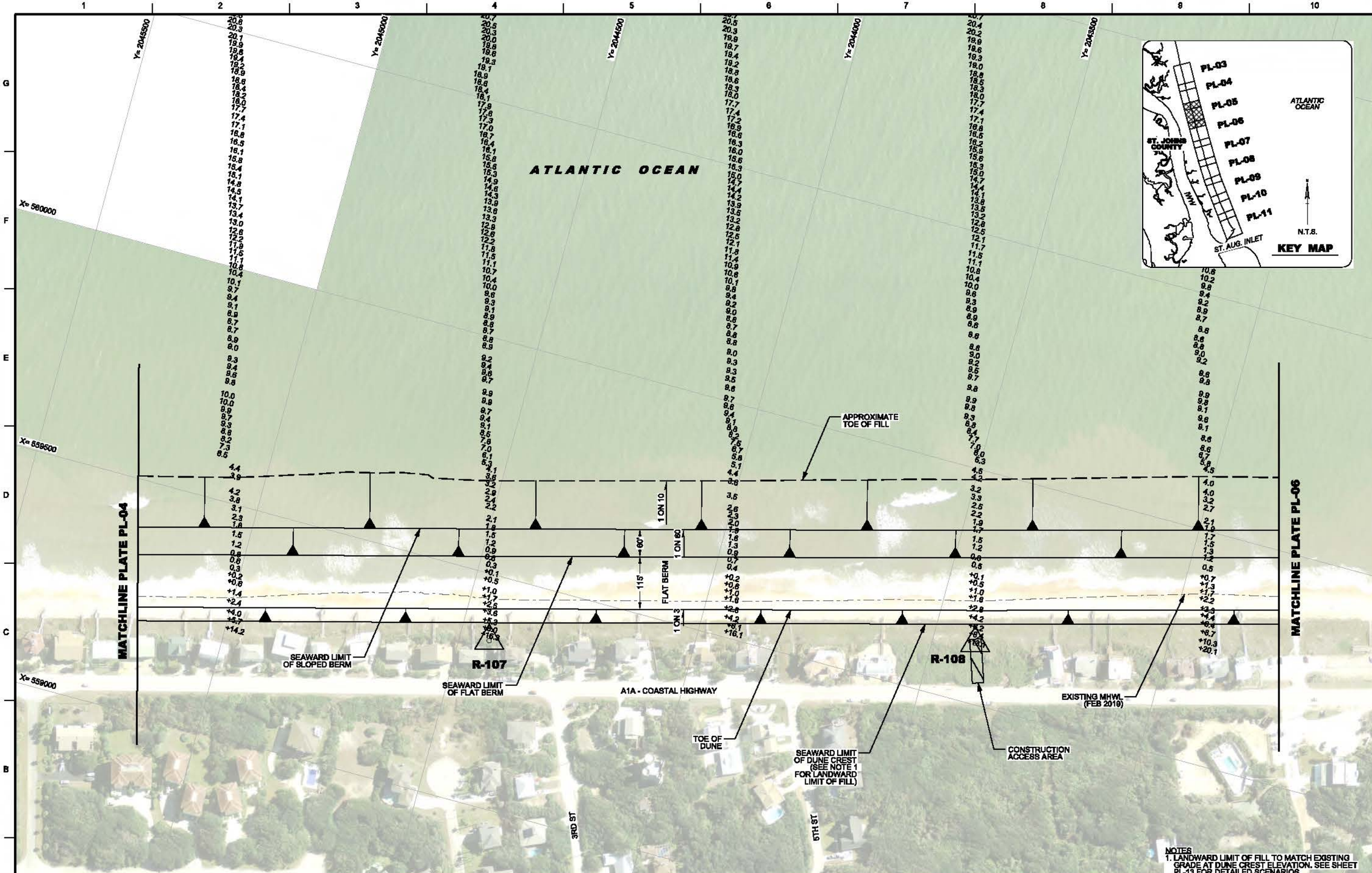
2019 NOV



NOTES
1. LANDWARD LIMIT OF FILL TO MATCH EXISTING GRADE AT DUNE CREST ELEVATION. SEE SHEET PL-13 FOR DETAILED SCENARIOS.

BEACH FILL PLAN

0 100' 200'

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ST. JOHNS COUNTY, FL

BEACH FILL - PLAN VIEW

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PLATE
PL-05

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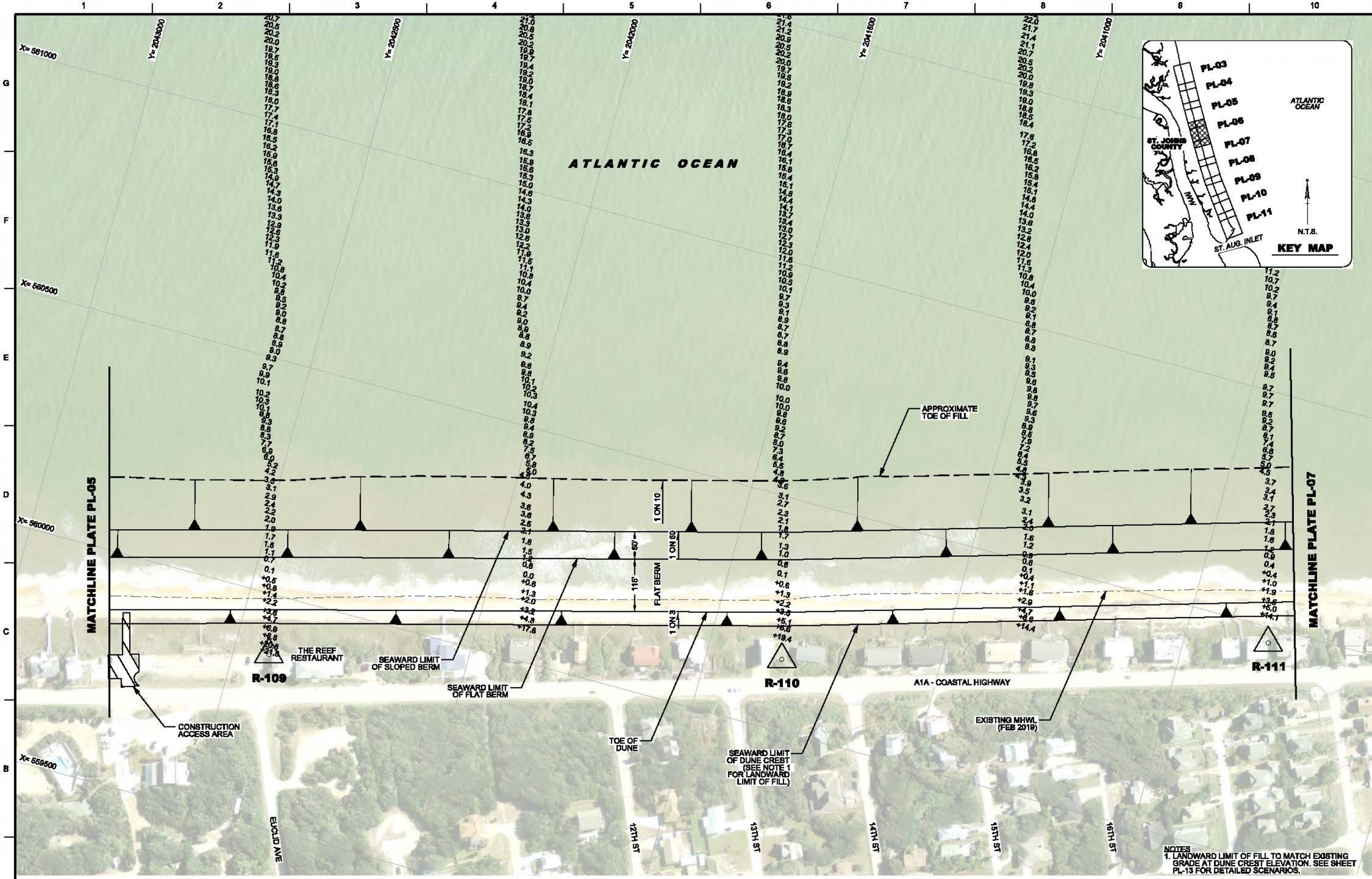
2019 NOV



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SOUTH PONTE VEDRA AND VILANO BEACH
ST. JOHNS COUNTY, FL

BEACH FILL - PLAN VIEW

DATED:
NOV 2019

PLATE
PL-06

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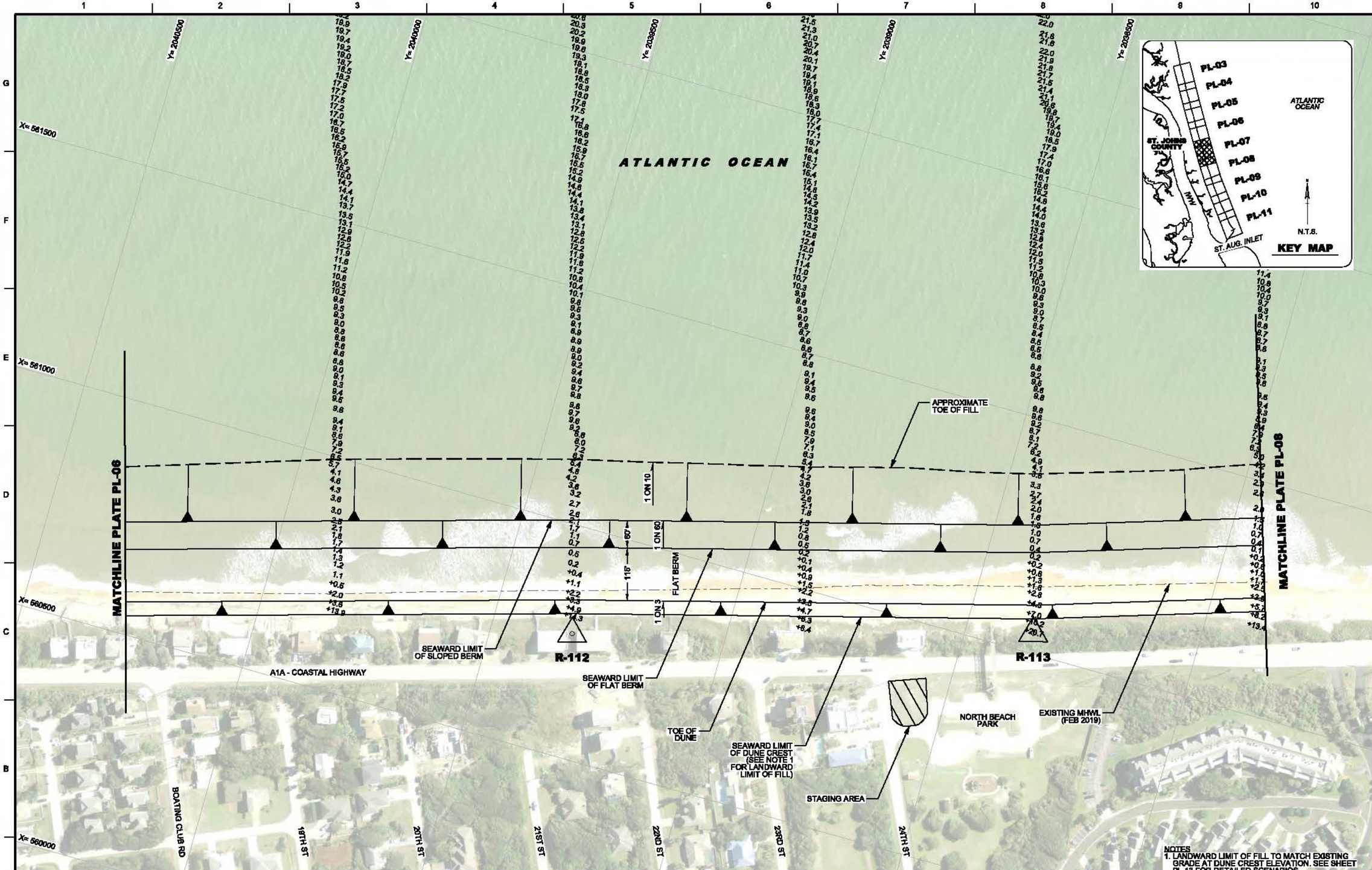
2019 NOV



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BEACH FILL PLAN

0 100' 200'

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Jacksonville District

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RAI #001 RESPONSE	NOV 2019
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COASTAL STORM RISK MANAGEMENT PROJECT
SOUTH PONTE VEDRA AND VILANO BEACH
ST. JOHNS COUNTY, FL

BEACH FILL - PLAN VIEW

DATED: NOV 2019

PLATE PL-07

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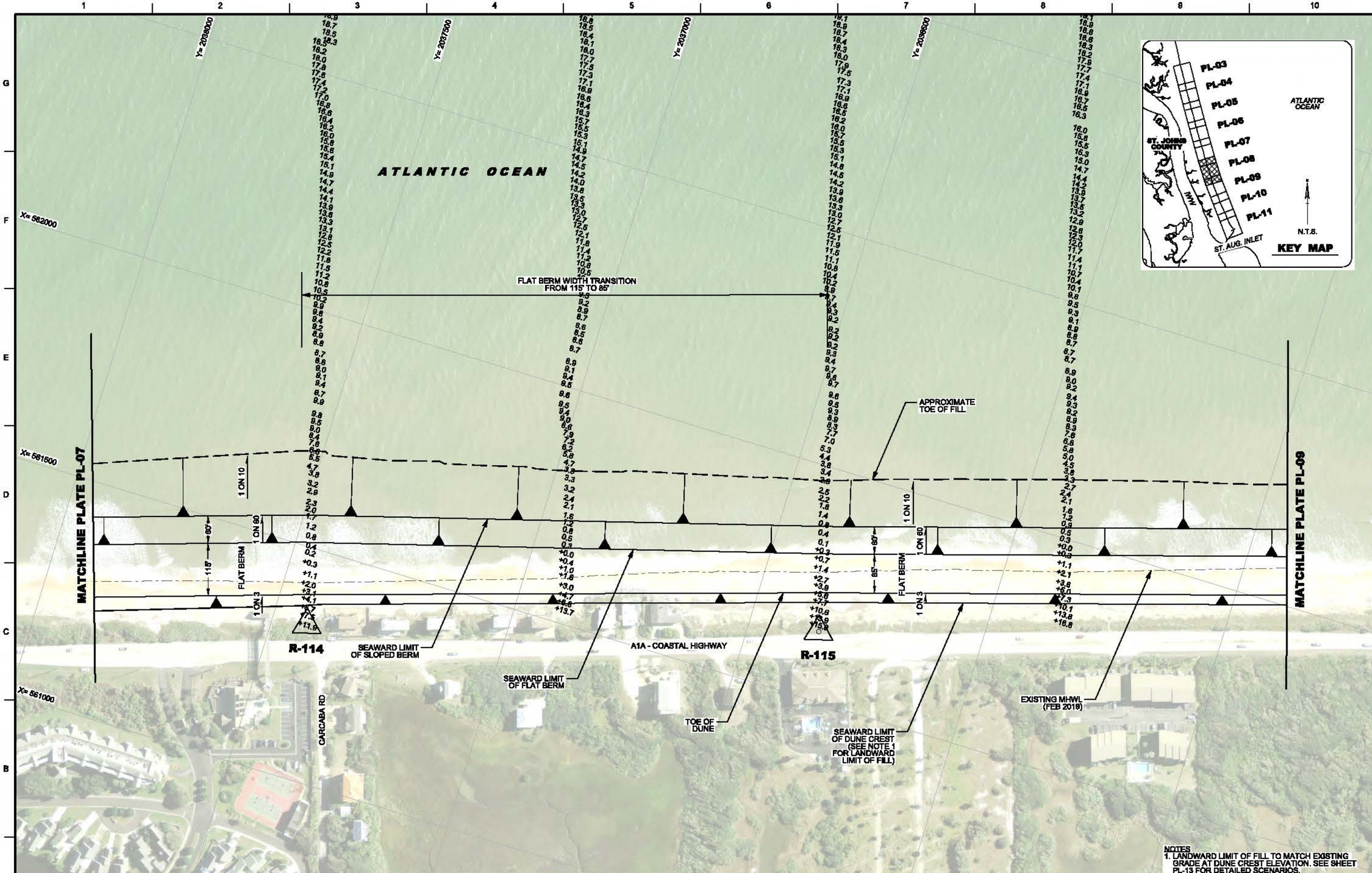
2019 NOV



NOTES
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BEACH FILL PLAN

0 100' 200'

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Jacksonville District

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JACKSONVILLE DISTRICT

RAI #001 RESPONSE	NOV 2019	
RAI #001 RESPONSE	AUG 2019	
DESCRIPTION	DATE	

FDEP WQC PERMIT PLATE
NOT FOR CONSTRUCTION

COASTAL STORM RISK MANAGEMENT PROJECT
SOUTH PONTE VEDRA AND VILANO BEACH
ST. JOHNS COUNTY, FL

BEACH FILL - PLAN VIEW

DATED:
NOV 2019

PLATE
PL-08

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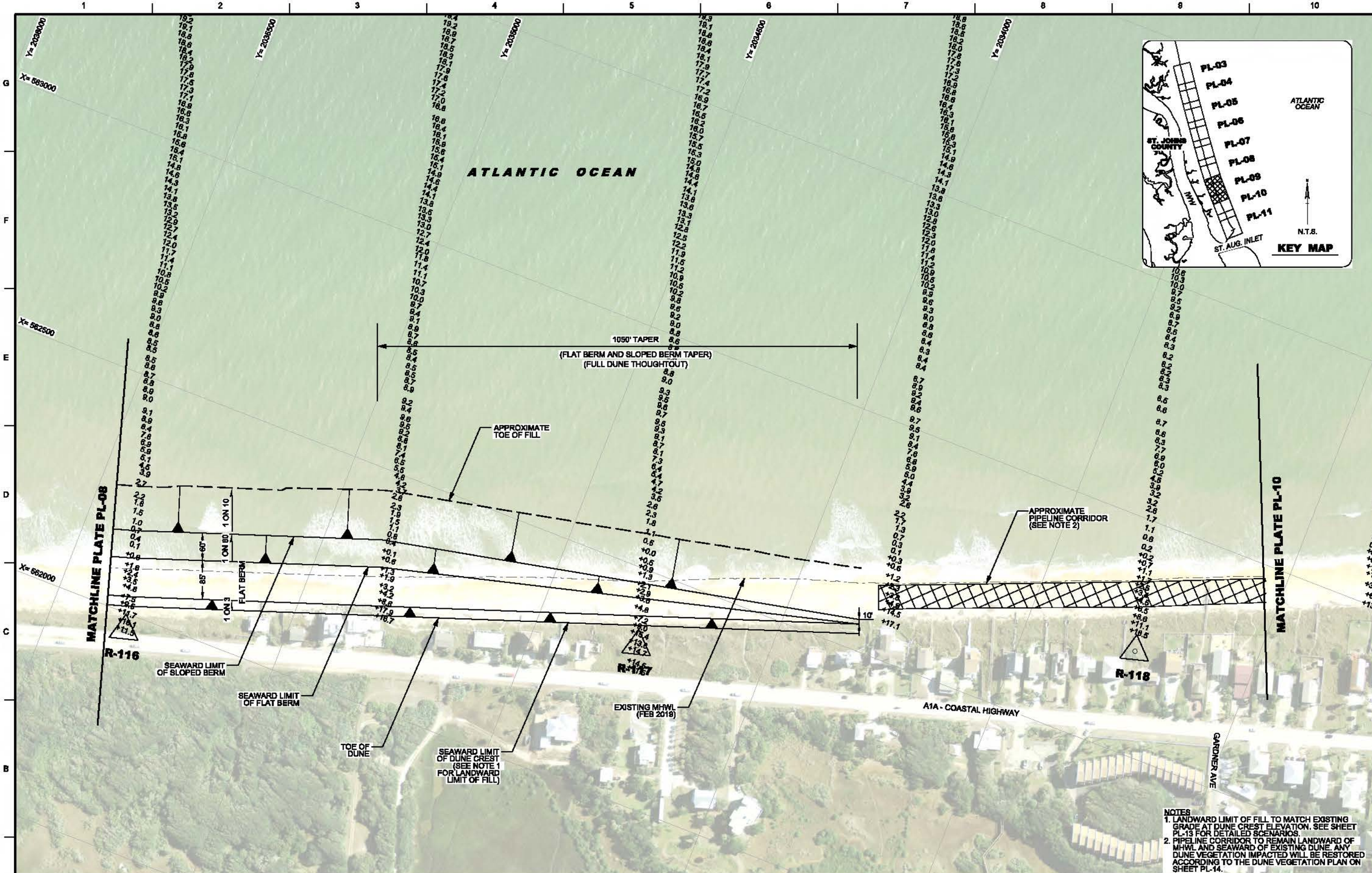
2019 NOV



NOTES
1. LANDWARD LIMIT OF FILL TO MATCH EXISTING GRADE AT DUNE CREST ELEVATION. SEE SHEET PL-13 FOR DETAILED SCENARIOS.
2. PIPELINE CORRIDOR TO REMAIN LANDWARD OF MHWL AND SEAWARD OF EXISTING DUNE. ANY DUNE VEGETATION IMPACTED WILL BE RESTORED ACCORDING TO THE DUNE VEGETATION PLAN ON SHEET PL-14.

BEACH FILL PLAN

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DESCRIPTION	DATE
RAI #001 RESPONSE	NOV 2019
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COASTAL STORM RISK MANAGEMENT PROJECT
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ST. JOHNS COUNTY, FL

BEACH FILL - PLAN VIEW

DATED: NOV 2019

PLATE
PL-09

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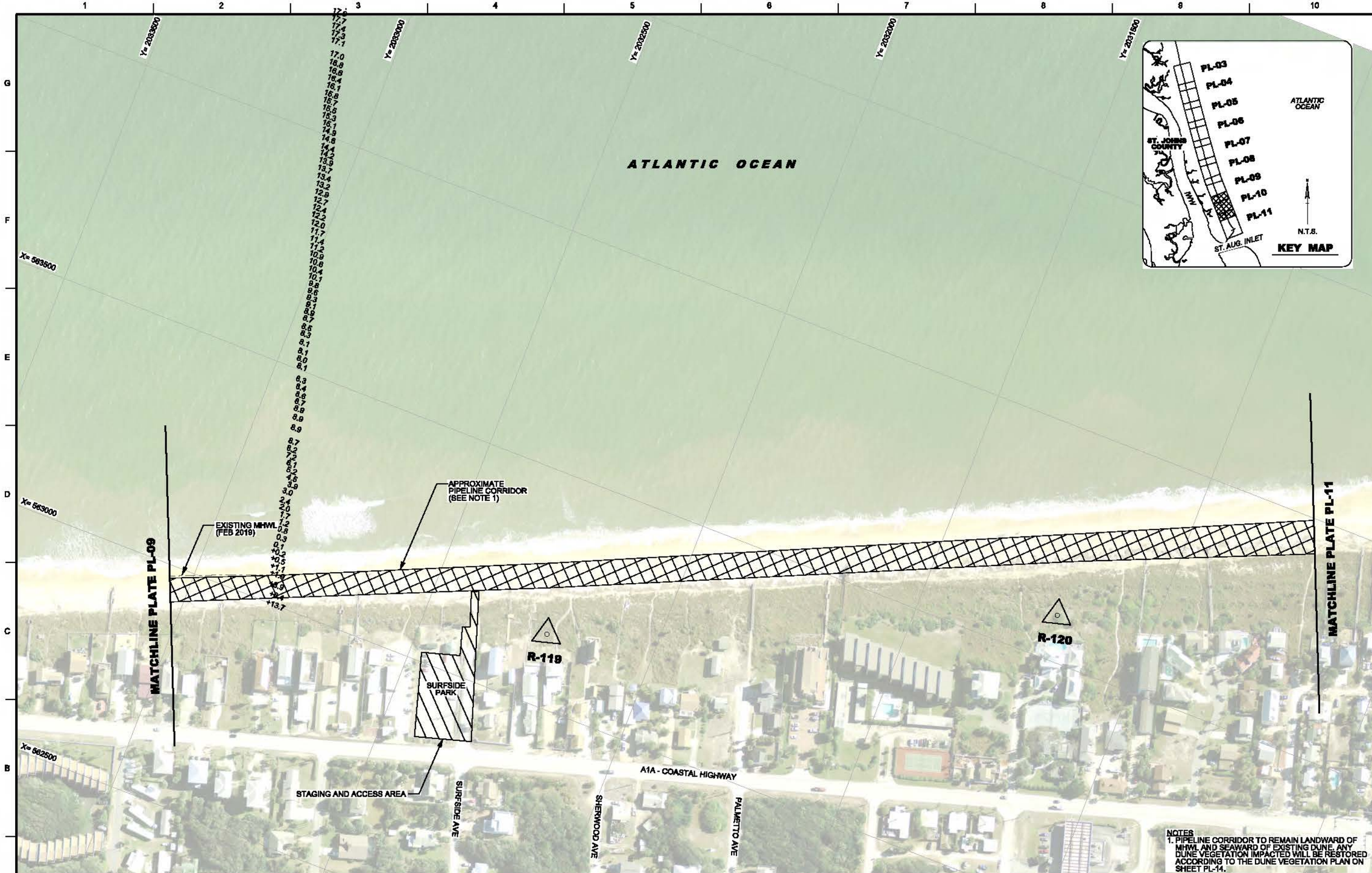
2019 NOV



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PIPELINE CORRIDOR PLAN

0 100' 200'

US Army Corps of Engineers
Jacksonville District

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JACKSONVILLE DISTRICT

FDEP WQC PERMIT PLATE
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NOV 2019	BA #001 RESPONSE

COASTAL STORM RISK MANAGEMENT PROJECT
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ST. JOHNS COUNTY, FL

PIPELINE CORRIDOR

DATED: NOV 2019

PLATE
PL-10

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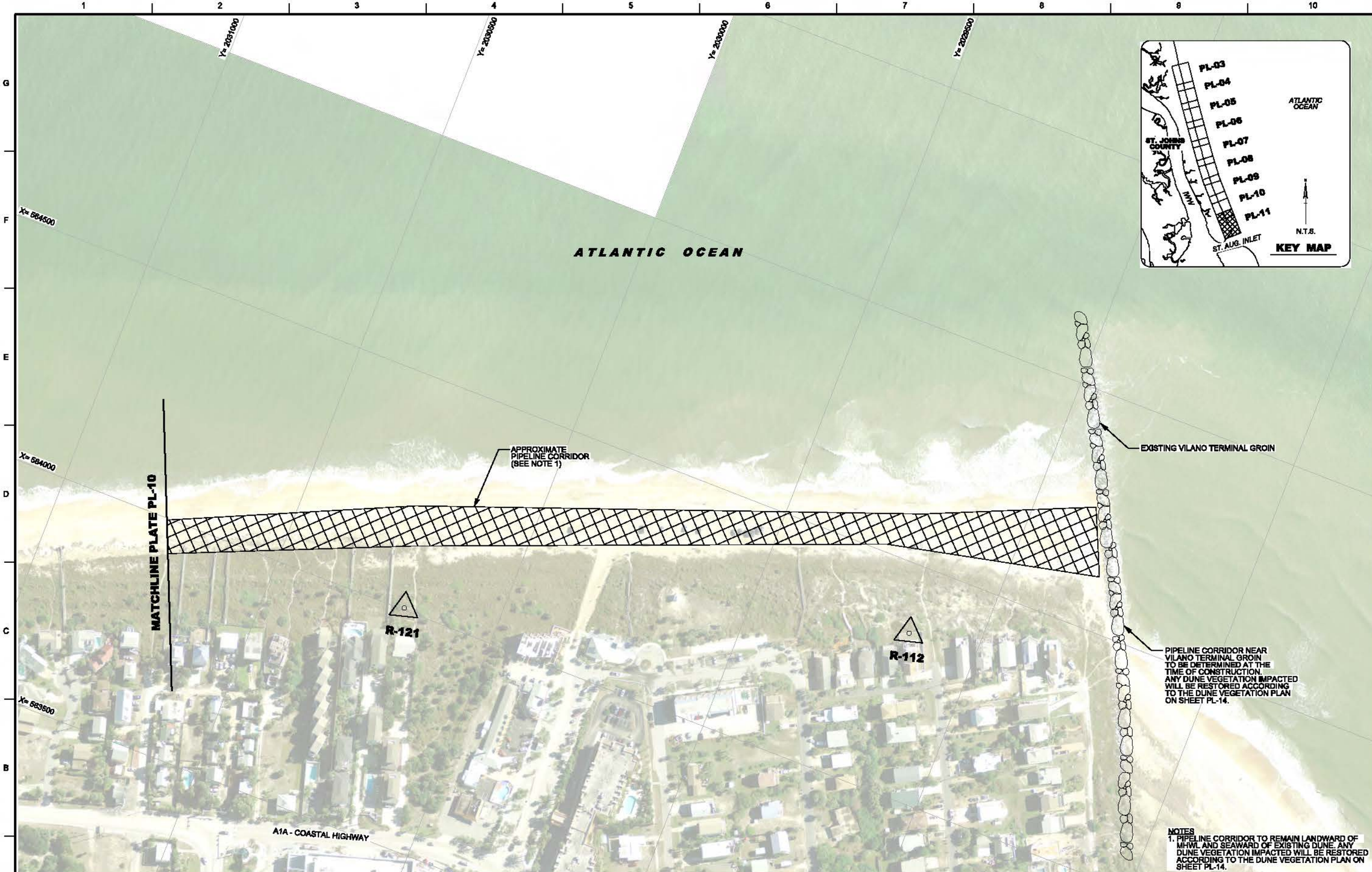
2019 NOV



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PIPELINE CORRIDOR PLAN

0 100' 200'

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Jacksonville District

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PIPELINE CORRIDOR

DATED: NOV 2019

PLATE
PL-11

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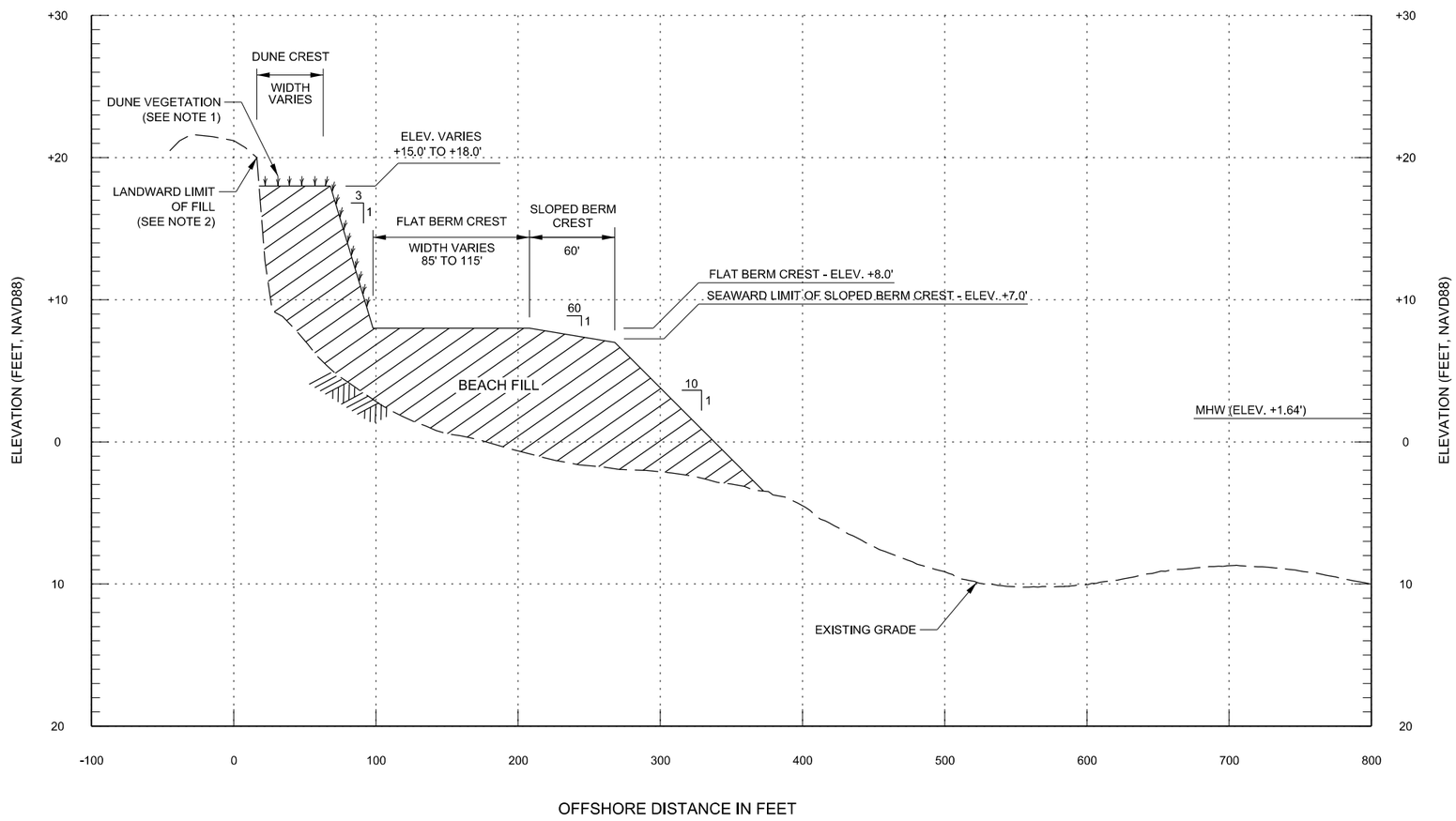

BEACH FILL TYPICAL PROFILE

0 50' 100' HORIZONTAL

0 5' 10' VERTICAL

NOTES
1. SEE SHEET PL-14 FOR DUNE VEGETATION DETAILS.
2. SEE SHEET PL-13 FOR DETAILED SCENARIOS OF THE LANDWARD LIMIT OF FILL TIE IN.

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BEACH FILL - TYPICAL PROFILE

DATED: NOV 2019

PLATE
PL-12

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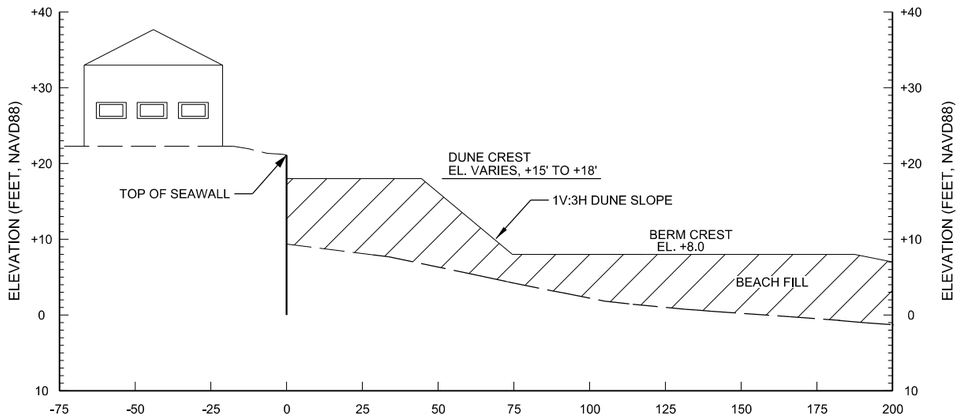
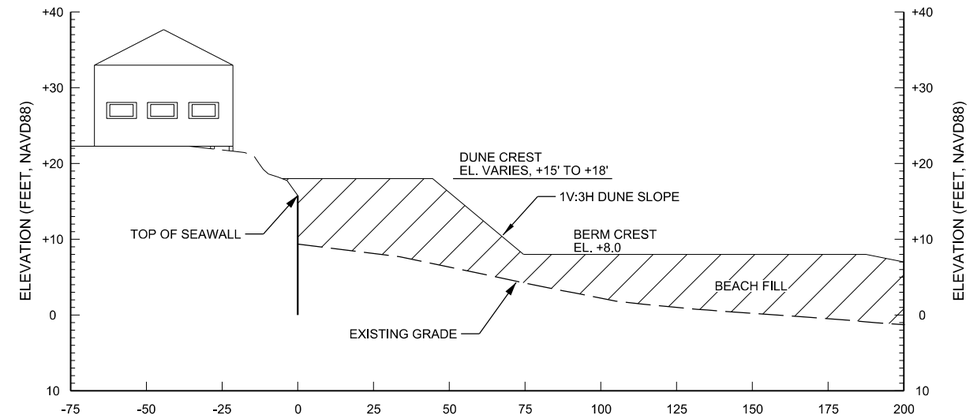
2019 NOV



FILL INTERSECTS SEAWALL

NOT TO SCALE

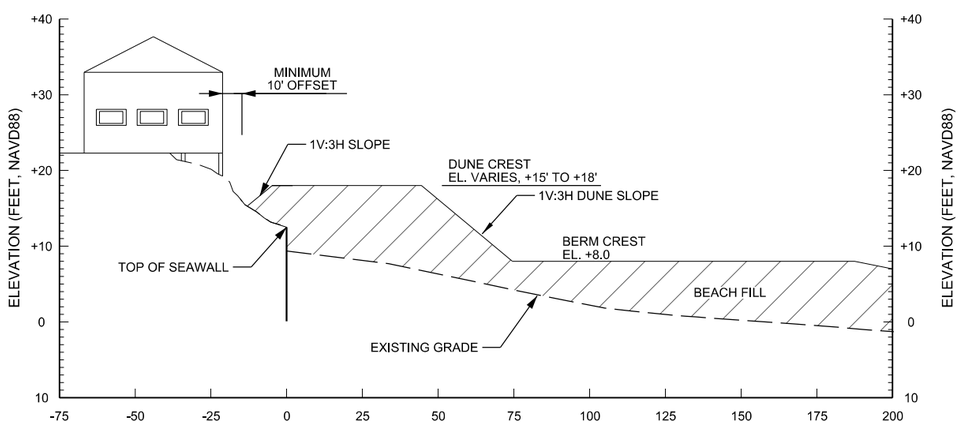
SEAWALL TALLER THAN DUNE CREST



FILL INTERSECTS EXISTING GRADE

NOT TO SCALE

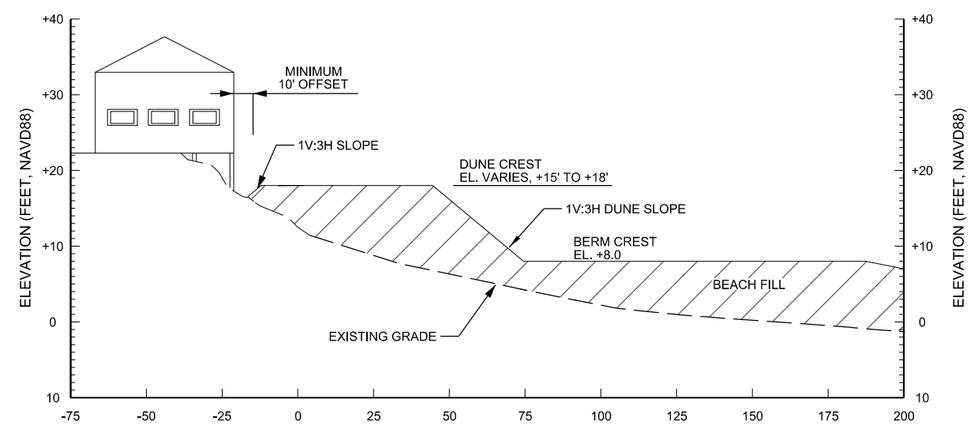
SEAWALL LOWER THAN DUNE CREST



FILL INTERSECTS UPLAND STRUCTURE

NOT TO SCALE

SEAWALL AND GRADE LOWER THAN DUNE CREST



FILL INTERSECTS UPLAND STRUCTURE

NOT TO SCALE

NO SEAWALL AND GRADE LOWER THAN DUNE CREST

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BEACH FILL - LANDWARD TIE-IN

DATED: NOV 2019

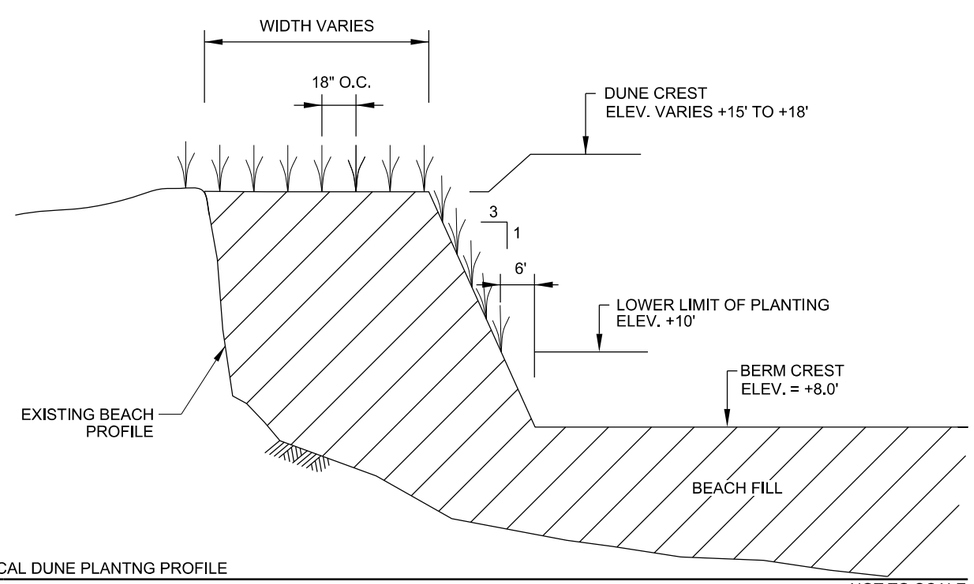
PLATE
PL-13

PLANTING DETAIL

PLANT TYPE	SCIENTIFIC NAME	PERCENT DISTRIBUTION	QUANTITY (APPROX.)	SIZE	SPACING
SEA OATS	UNIOLA PANICULATA	80% TO 85%	320,000	1" LINER	18" O.C.
BITTER PANICGRASS	PANICUM AMARUM	10% TO 15%	50,000	1" LINER	18" O.C.
RAILROAD VINE	IPOMOEA PES-CAPRAE	3% TO 6% (RELATIVELY EQUAL ABUNDANCE OF EACH)	10,000	2" LINER	18" O.C.
DUNE SUNFLOWER	HELIANTHUS DEBILIS		10,000	2" LINER	18" O.C.

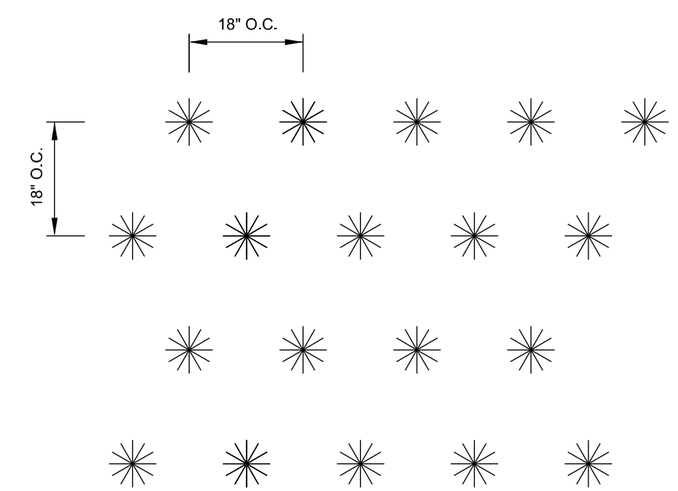
PLANTING NOTES:

1. ALL PLANTING TO BE INSTALLED ON THE DUNE CREST AND THE SEAWARD DUNE SLOPE, ABOVE ELEV. +10.0'. IN THE EVENT OF SURPLUS PLANT UNITS, PLANTS MAY BE INSTALLED LANDWARD OF THE CONSTRUCTED FILL TO ENHANCE AREAS OF EXISTING VEGETATION.
2. ALL PLANTINGS MUST BE OF NATIVE SPECIES.
3. ALL PLANTINGS SHALL BE AT A MINIMUM OF 6" BELOW THE SURROUNDING GRADE, AS MEASURED FROM THE TOP OF THE ROOT BALL TO THE SAND SURFACE.
4. ALL PLANTINGS SHALL BE IN STAGGERED ROWS SPACED AT 18" ON CENTER (O.C.).
5. DISTRIBUTION OF PLANTED SPECIES SHALL BE RANDOM ACROSS THE PLANTING AREA (18" O.C.).



TYPICAL DUNE PLANTNG PROFILE

NOT TO SCALE



TYPICAL DUNE PLANTNG LAYOUT

NOT TO SCALE

US Army Corps of Engineers
Jacksonville District

DESIGNED BY: W. REILLY
DRAWN BY: R. PINTO
CHECKED BY: M. NEVES
U.S. ARMY CORPS OF ENGINEERS JACKSONVILLE DISTRICT

FDEP WQC PERMIT PLATE
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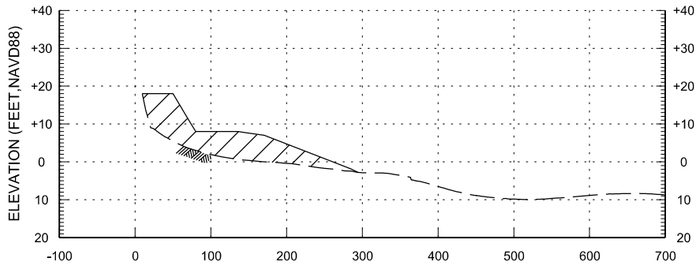
DATE | DESCRIPTION

COASTAL STORM RISK MANAGEMENT PROJECT
SOUTH PONTE VEDRA AND VILANO BEACH
ST. JOHNS COUNTY, FL

DUNE VEGETATION AND PLANTING

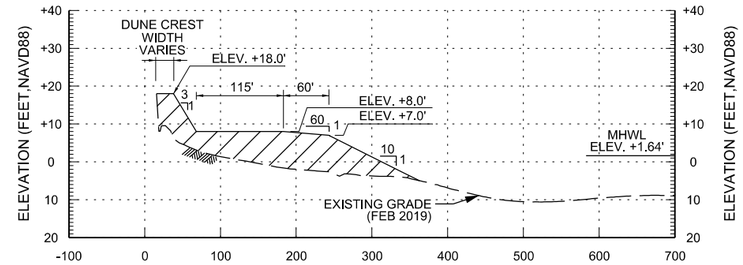
DATED: NOV 2019

PLATE
PL-14



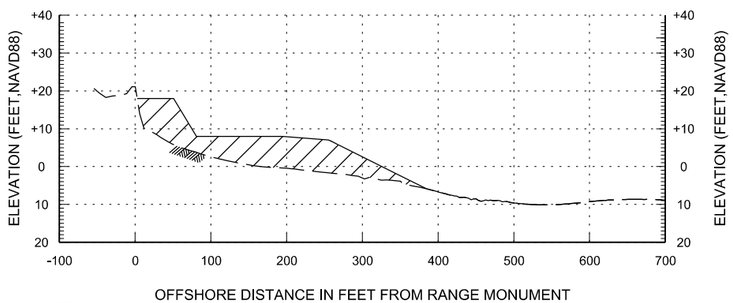
PL-03 PROFILE FDEP RANGE R-103

HORIZONTAL 0 100' 200' VERTICAL 0 20' 40'



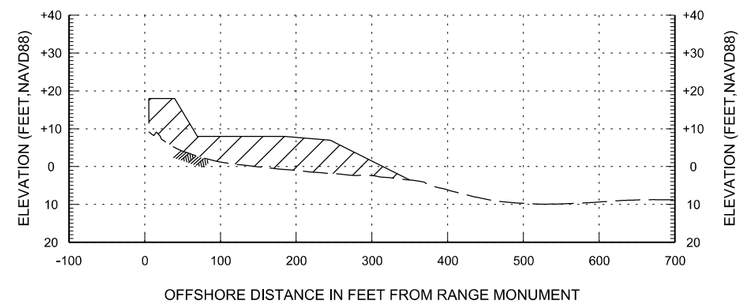
PL-04 PROFILE FDEP RANGE R-106

HORIZONTAL 0 100' 200' VERTICAL 0 20' 40'



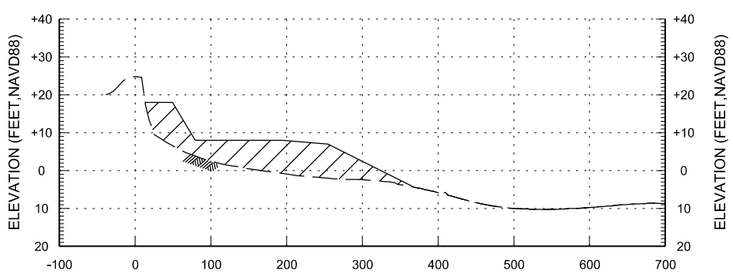
PL-04 PROFILE FDEP RANGE R-104

HORIZONTAL 0 100' 200' VERTICAL 0 20' 40'



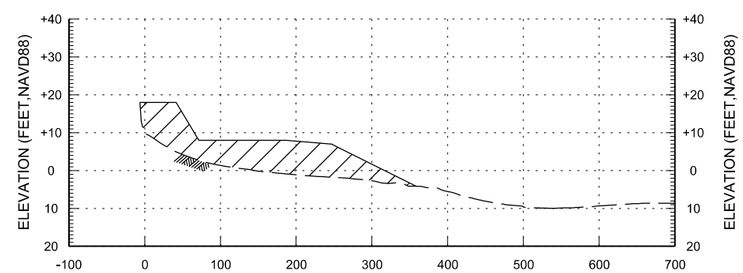
PL-05 PROFILE FDEP RANGE R-107

HORIZONTAL 0 100' 200' VERTICAL 0 20' 40'



PL-04 PROFILE FDEP RANGE R-105

HORIZONTAL 0 100' 200' VERTICAL 0 20' 40'



PL-05 PROFILE FDEP RANGE R-108

HORIZONTAL 0 100' 200' VERTICAL 0 20' 40'

US Army Corps of Engineers
Jacksonville District

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DRAWN BY: R. PINTO
CHECKED BY: M. NEVES
U.S. ARMY CORPS OF ENGINEERS JACKSONVILLE DISTRICT

FDEP WQC PERMIT PLATE
NOT FOR CONSTRUCTION

DESCRIPTION	DATE
RAI #001 RESPONSE	NOV 2019
RAI #001 RESPONSE	AUG 2019

COASTAL STORM RISK MANAGEMENT PROJECT
SOUTH PONTE VEDRA AND VILANO BEACH
ST. JOHNS COUNTY, FL

BEACH PROFILES

DATED: NOV 2019

PLATE
PL-15

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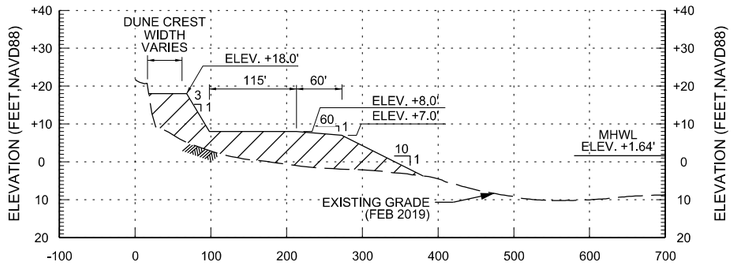
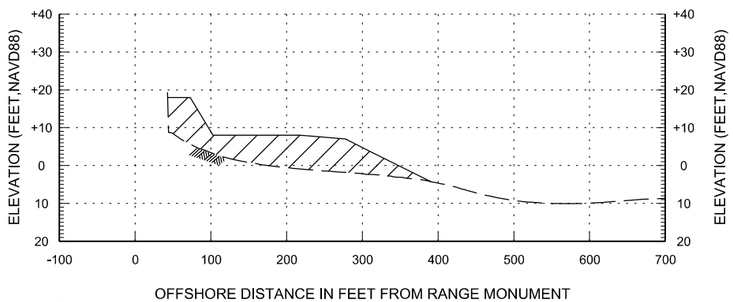
2019 NOV



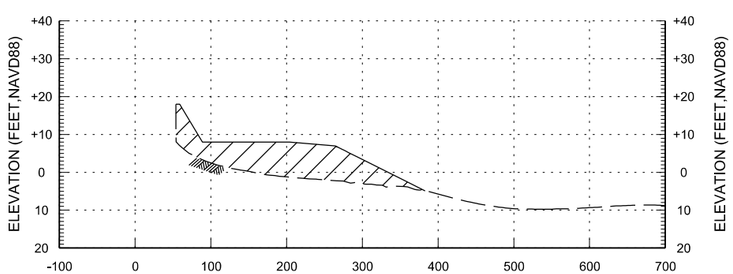
PL-06 PROFILE FDEP RANGE R-109

HORIZONTAL 0 100' 200' VERTICAL 0 20' 40'



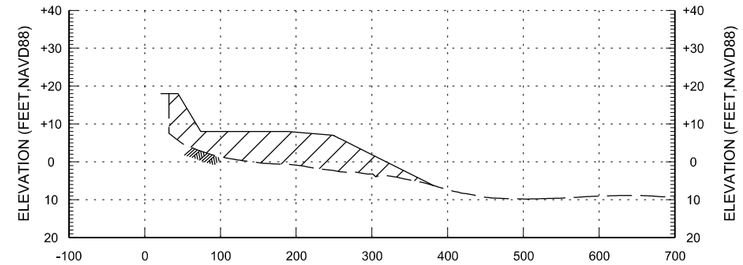
PL-06 PROFILE FDEP RANGE R-110

HORIZONTAL 0 100' 200' VERTICAL 0 20' 40'



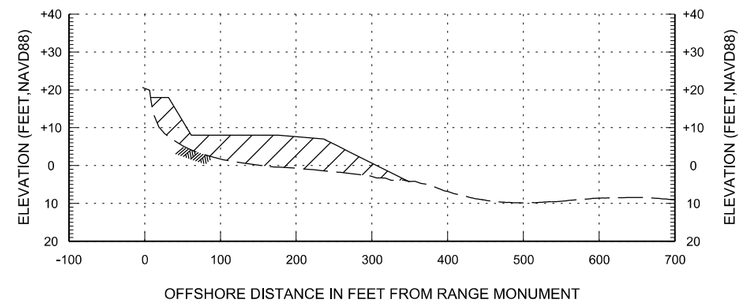
PL-06 PROFILE FDEP RANGE R-111

HORIZONTAL 0 100' 200' VERTICAL 0 20' 40'



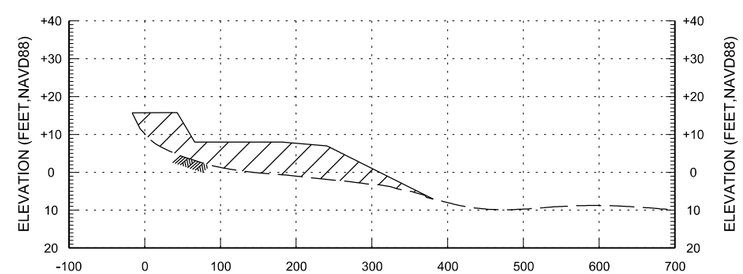
PL-07 PROFILE FDEP RANGE R-112

HORIZONTAL 0 100' 200' VERTICAL 0 20' 40'



PL-07 PROFILE FDEP RANGE R-113

HORIZONTAL 0 100' 200' VERTICAL 0 20' 40'



PL-08 PROFILE FDEP RANGE R-114

HORIZONTAL 0 100' 200' VERTICAL 0 20' 40'

US Army Corps of Engineers
Jacksonville District

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DRAWN BY: R. PINTO
CHECKED BY: M. NEVES
U.S. ARMY CORPS OF ENGINEERS JACKSONVILLE DISTRICT

FDEP WQC PERMIT PLATE
NOT FOR CONSTRUCTION

DESCRIPTION	DATE
RAI #001 RESPONSE	NOV 2019
RAI #001 RESPONSE	AUG 2019

COASTAL STORM RISK MANAGEMENT PROJECT
SOUTH PONTE VEDRA AND VILANO BEACH
ST. JOHNS COUNTY, FL

BEACH PROFILES

DATED: NOV 2019

PLATE
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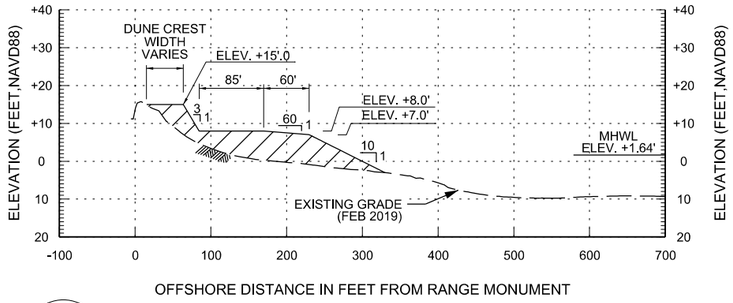
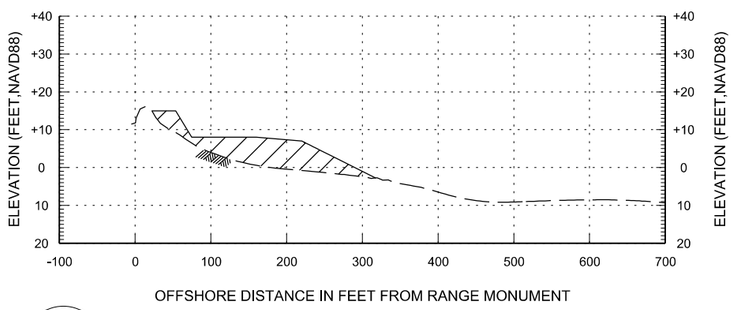
2019 NOV



PL-08 PROFILE FDEP RANGE R-115

HORIZONTAL 0 100' 200'

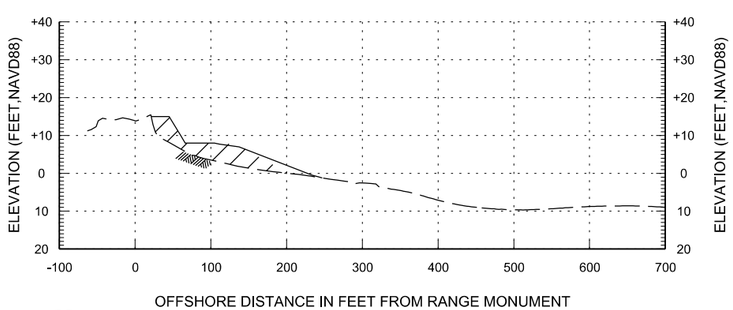
VERTICAL 0 20' 40'



PL-09 PROFILE FDEP RANGE R-116

HORIZONTAL 0 100' 200'

VERTICAL 0 20' 40'



PL-09 PROFILE FDEP RANGE R-117

HORIZONTAL 0 100' 200'

VERTICAL 0 20' 40'

US Army Corps of Engineers
Jacksonville District

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DRAWN BY: R. PINTO
CHECKED BY: M. NEVES
U.S. ARMY CORPS OF ENGINEERS JACKSONVILLE DISTRICT

FDEP WQC PERMIT PLATE
NOT FOR CONSTRUCTION

DESCRIPTION	DATE
RAI #001 RESPONSE	NOV 2019
RAI #001 RESPONSE	AUG 2019

COASTAL STORM RISK MANAGEMENT PROJECT
SOUTH PONTE VEDRA AND VILANO BEACH
ST. JOHNS COUNTY, FL

BEACH PROFILES

DATED:
NOV 2019

PLATE
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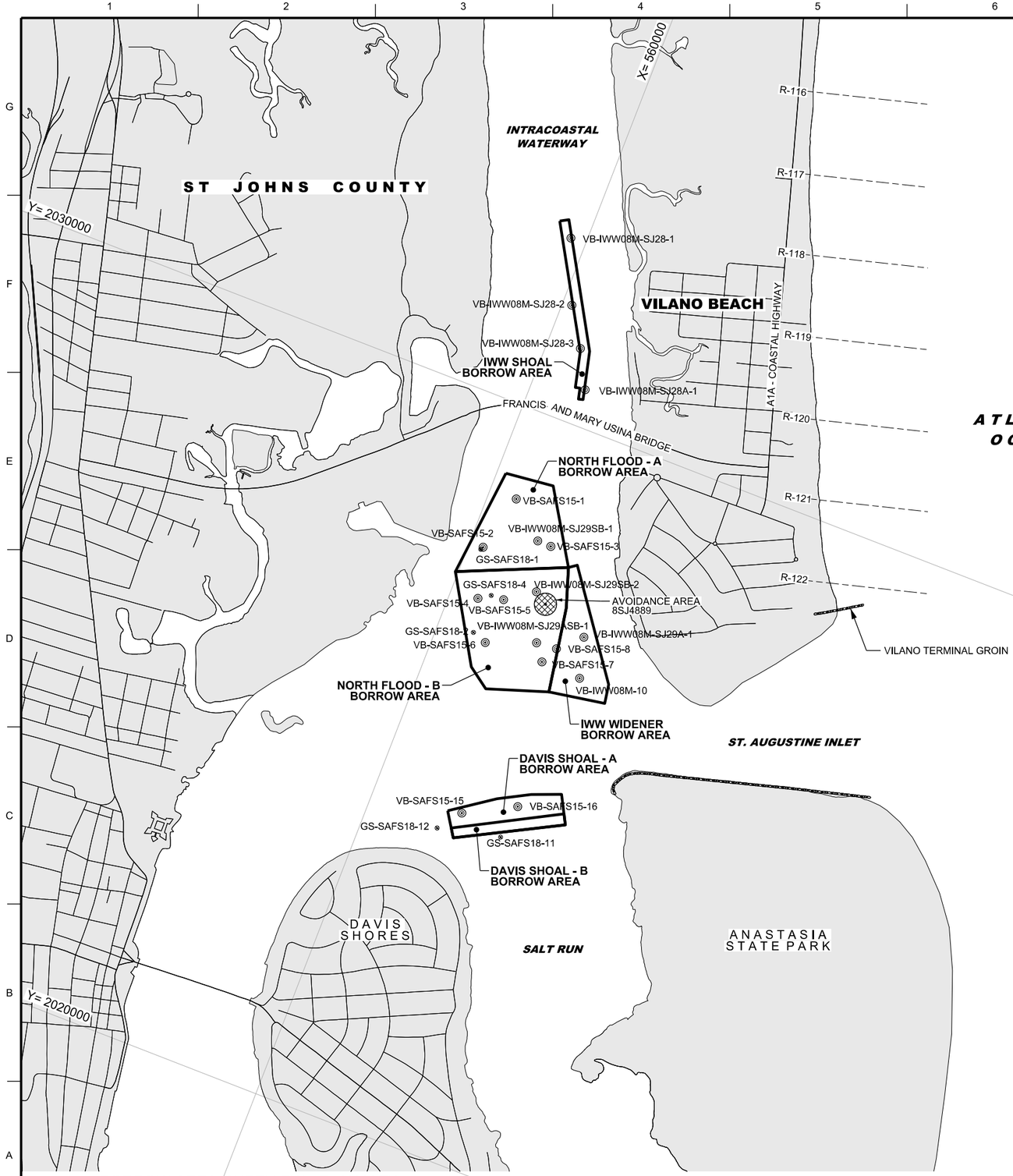
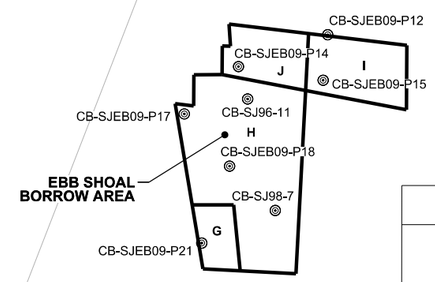


BORROW AREA DEPTHS (FEET , NAVD88)	
BORROW AREA ID	MAX DEPTH
IWW SHOAL	16.9
NORTH FLOOD - A	20.0
NORTH FLOOD - B	24.0
IWW WIDENER SHOAL	16.9
DAVIS SHOAL - A	20.0
DAVIS SHOAL - B	16.0
EBB SHOAL - G	38.0
EBB SHOAL - H	29.0
EBB SHOAL - I	36.0
EBB SHOAL - J	36.0

CORE BORING LOCATIONS STATE PLANE COORDINATES FL EAST NAD83(HARN) IN FEET		
DESIGNATION	EASTING (X)	NORTHING (Y)
VB-IWW08M-SJ28-1	559,787	2,032,345
VB-IWW08M-SJ28-2	560,128	2,031,502
VB-IWW08M-SJ28-3	560,448	2,030,998
VB-IWW08M-SJ28A-1	560,711	2,030,500
VB-IWW08M-SJ29SB-1	560,853	2,028,360
VB-IWW08M-SJ29SB-2	561,084	2,027,711
VB-IWW08M-SJ29A-1	561,907	2,027,370
VB-IWW08M-SJ29ASB-1	561,336	2,027,068
VB-IWW08M-10	562,053	2,026,830
VB-SAFS15-1	560,376	2,028,784
VB-SAFS15-2	560,193	2,028,012
VB-SAFS15-3	561,044	2,028,354
VB-SAFS15-4	560,378	2,027,341
VB-SAFS15-5	560,709	2,027,450
VB-SAFS15-6	560,688	2,026,819
VB-SAFS15-7	561,498	2,026,852
VB-SAFS15-8	561,617	2,027,089
VB-SAFS15-15	561,227	2,024,551
VB-SAFS15-16	561,902	2,024,907
GS-SAFS18-1	560,174	2,027,974
GS-SAFS18-2	560,488	2,026,889
GS-SAFS18-4	560,532	2,027,443
GS-SAFS18-11	561,834	2,024,437
GS-SAFS18-12	560,988	2,024,242
CB-SJ96-11	571,470	2,027,887
CB-SJ98-7	572,168	2,026,894
CB-SJEB09-P12	572,013	2,028,826
CB-SJEB09-P14	571,257	2,028,170
CB-SJEB09-P15	572,142	2,028,360
CB-SJEB09-P17	570,903	2,027,498
CB-SJEB09-P18	571,549	2,027,156
CB-SJEB09-P21	571,569	2,026,292



AVOIDANCE AREAS			
ID	STATE PLANE COORDINATES FL EAST NAD83(2011) IN FEET		RADIUS IN FEET
	EASTING (X)	NORTHING (Y)	
8SJ4889	561,260	2,027,598	150

BORROW AREA OVERVIEW - PLAN VIEW

0 800' 1600'
GRAPHICAL SCALE

US Army Corps of Engineers
Jacksonville District

DESIGNED BY: W. REILLY
DRAWN BY: R. PINTO
CHECKED BY: M. NEVES
U.S. ARMY CORPS OF ENGINEERS JACKSONVILLE DISTRICT

FDEP WQC PERMIT PLATE
NOT FOR CONSTRUCTION

DESCRIPTION	DATE
RAI #001 RESPONSE	NOV 2019
RAI #001 RESPONSE	AUG 2019

COASTAL STORM RISK MANAGEMENT PROJECT
SOUTH PONTE VEDRA AND VILANO BEACH
ST. JOHNS COUNTY, FL

BORROW AREA OVERVIEW - PLAN VIEW

DATED: NOV 2019

PLATE
PL-18

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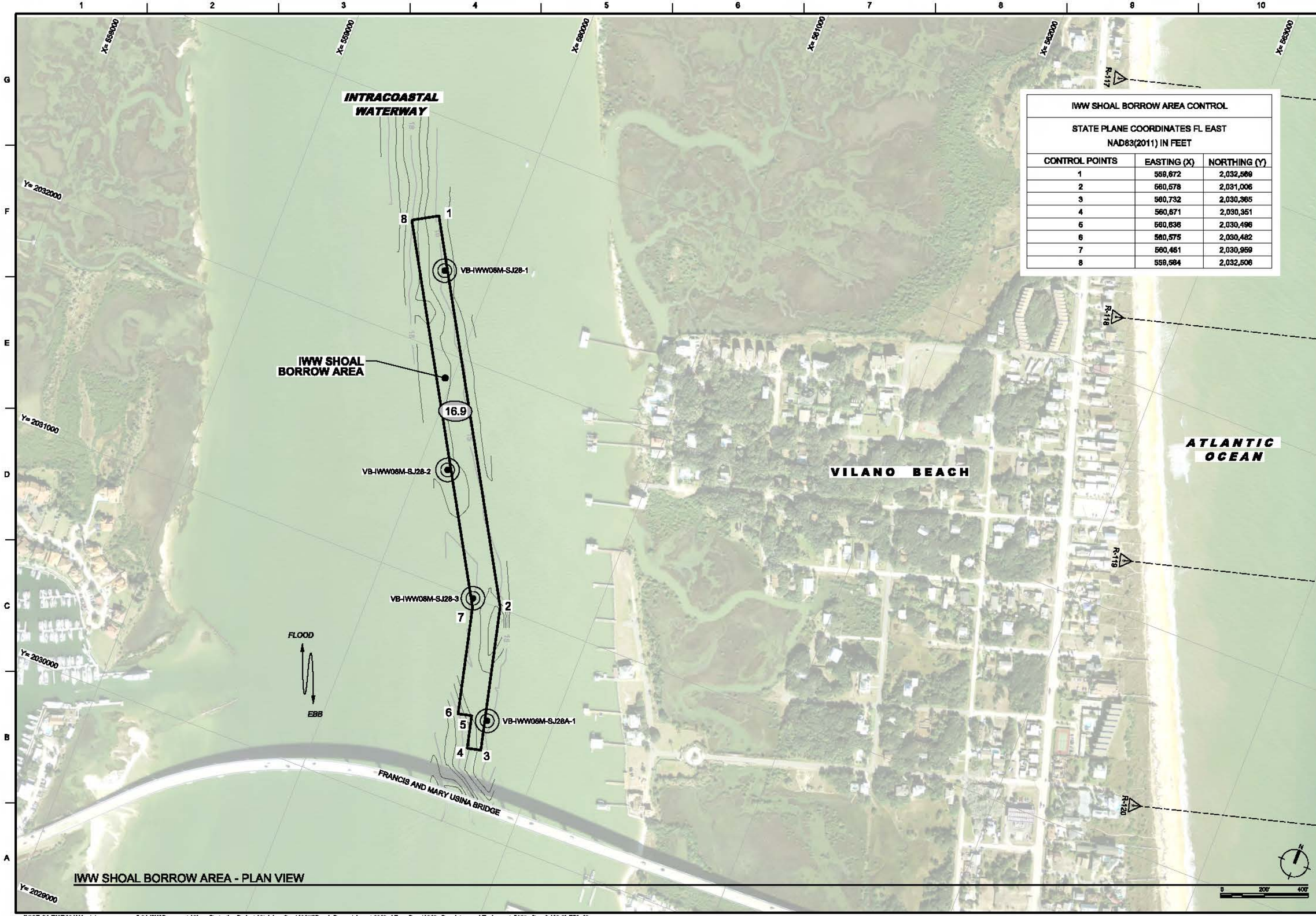
2019 NOV



IWW SHOAL BORROW AREA - PLAN VIEW

IWW SHOAL BORROW AREA CONTROL		
STATE PLANE COORDINATES FL EAST NAD83(2011) IN FEET		
CONTROL POINTS	EASTING (X)	NORTHING (Y)
1	559,672	2,032,569
2	560,578	2,031,006
3	560,732	2,030,365
4	560,671	2,030,351
5	560,636	2,030,496
6	560,575	2,030,482
7	560,461	2,030,959
8	559,564	2,032,506

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Jacksonville District

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DRAWN BY: R. PINTO
CHECKED BY: M. NEVES
U.S. ARMY CORPS OF ENGINEERS JACKSONVILLE DISTRICT

FDEP WQC PERMIT PLATE
NOT FOR CONSTRUCTION

RAI #001 RESPONSE DESCRIPTION	AUG 2019 DATE

COASTAL STORM RISK MANAGEMENT PROJECT
SOUTH PONTE VEDRA AND VILANO BEACH
ST. JOHNS COUNTY, FL

IWW SHOAL BORROW AREA - PLAN VIEW

DATED: NOV 2019

PLATE
PL-19

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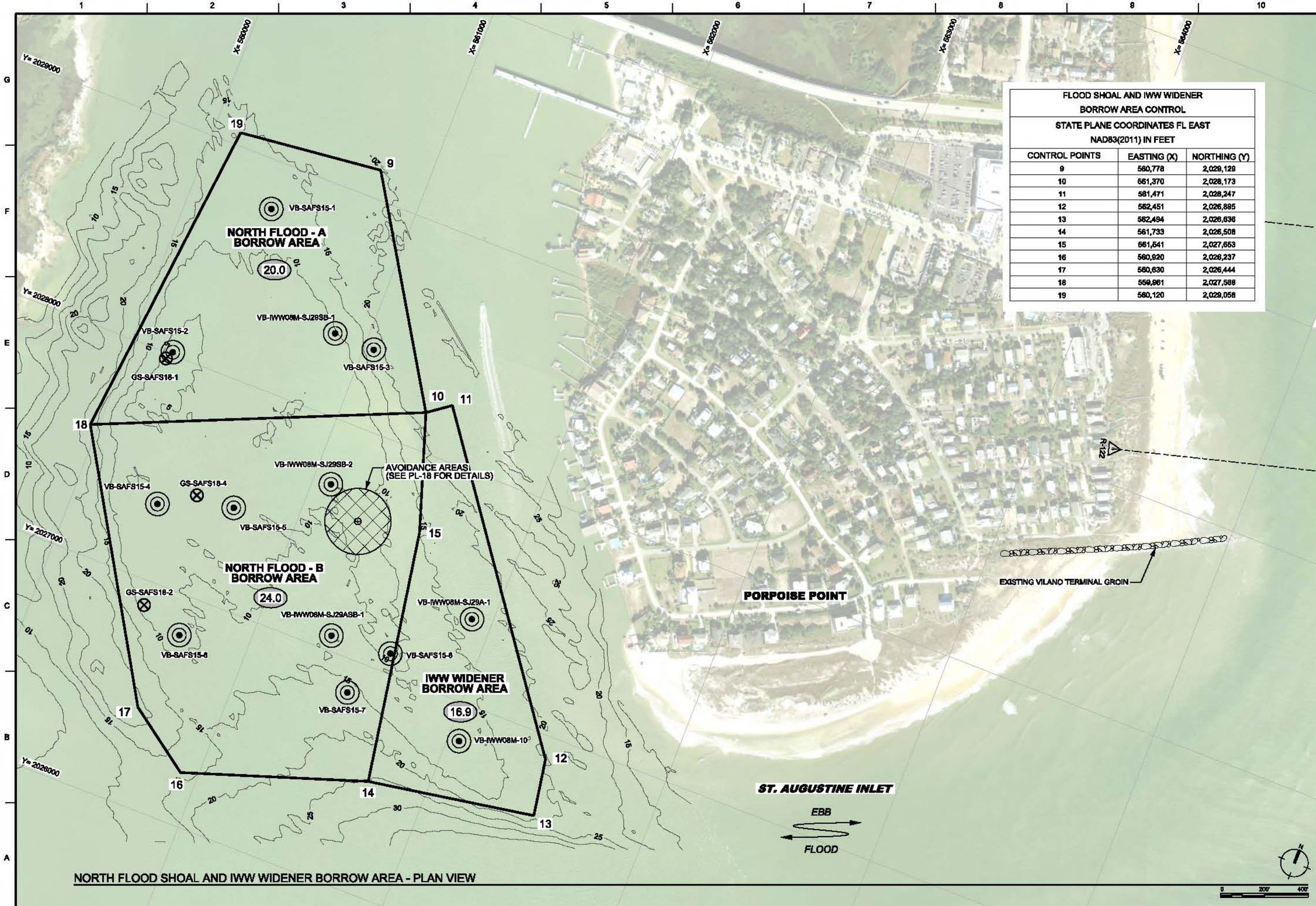
2019 NOV



FLOOD SHOAL AND IWW WIDENER BORROW AREA CONTROL		
STATE PLANE COORDINATES FL EAST NAD83(2011) IN FEET		
CONTROL POINTS	EASTING (X)	NORTHING (Y)
9	560,778	2,029,129
10	561,370	2,028,173
11	561,471	2,028,247
12	562,451	2,026,895
13	562,494	2,026,636
14	561,733	2,026,508
15	561,541	2,027,653
16	560,920	2,026,237
17	560,630	2,026,444
18	559,961	2,027,568
19	560,120	2,029,058

NORTH FLOOD SHOAL AND IWW WIDENER BORROW AREA - PLAN VIEW

US Army Corps of Engineers
Jacksonville District

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DRAWN BY: R. PINTO
CHECKED BY: M. NEVES
U.S. ARMY CORPS OF ENGINEERS JACKSONVILLE DISTRICT

FDEP WQC PERMIT PLATE
NOT FOR CONSTRUCTION

DATE	DESCRIPTION
NOV 2019	RAI #001 RESPONSE
AUG 2019	RAI #001 RESPONSE

COASTAL STORM RISK MANAGEMENT PROJECT
SOUTH PONTE VEDRA AND VILANO BEACH
ST. JOHNS COUNTY, FL
NORTH FLOOD SHOAL AND
IWW WIDENER BORROW AREA - PLAN VIEW

DATED:
NOV 2019

PLATE
PL-20

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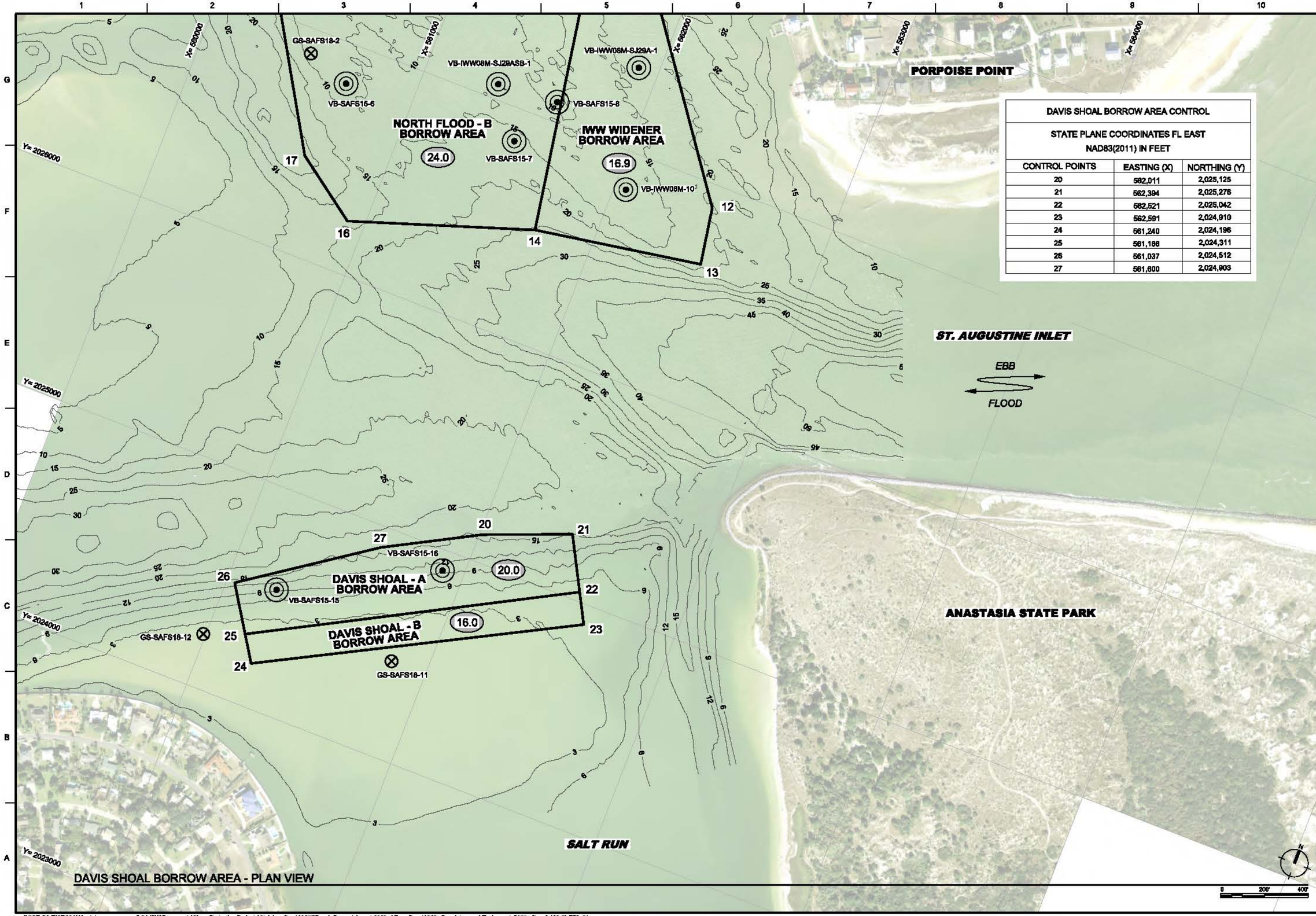
2019 NOV



DAVIS SHOAL BORROW AREA - PLAN VIEW

DAVIS SHOAL BORROW AREA CONTROL		
STATE PLANE COORDINATES FL EAST NAD83(2011) IN FEET		
CONTROL POINTS	EASTING (X)	NORTHING (Y)
20	562,011	2,025,125
21	562,394	2,025,276
22	562,521	2,025,042
23	562,591	2,024,910
24	561,240	2,024,196
25	561,186	2,024,311
26	561,037	2,024,512
27	561,600	2,024,903

US Army Corps of Engineers
Jacksonville District

DESIGNED BY: W. REILLY
DRAWN BY: R. PINTO
CHECKED BY: M. NEVES
U.S. ARMY CORPS OF ENGINEERS JACKSONVILLE DISTRICT

FDEP WQC PERMIT PLATE
NOT FOR CONSTRUCTION

DESCRIPTION	DATE
RAI #001 RESPONSE	NOV 2019
RAI #001 RESPONSE	AUG 2019

COASTAL STORM RISK MANAGEMENT PROJECT
SOUTH PONTE VEDRA AND VILANO BEACH
ST. JOHNS COUNTY, FL

DAVIS SHOAL BORROW AREA - PLAN VIEW

DATED: NOV 2019

PLATE
PL-21

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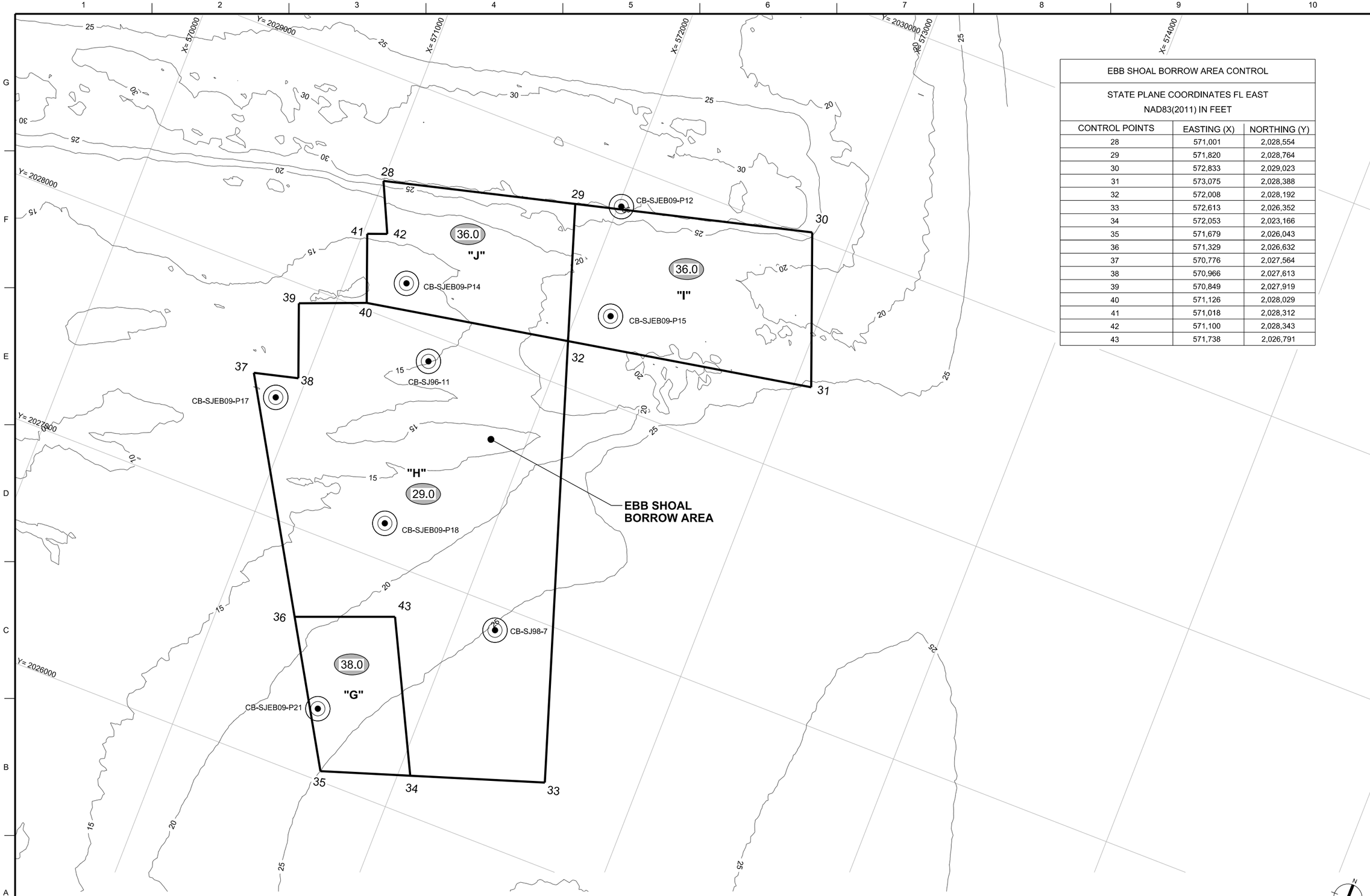
2019 NOV



EBB SHOAL BORROW AREA - PLAN VIEW

0 200' 400'

EBB SHOAL BORROW AREA CONTROL		
STATE PLANE COORDINATES FL EAST NAD83(2011) IN FEET		
CONTROL POINTS	EASTING (X)	NORTHING (Y)
28	571,001	2,028,554
29	571,820	2,028,764
30	572,833	2,029,023
31	573,075	2,028,388
32	572,008	2,028,192
33	572,613	2,026,352
34	572,053	2,023,166
35	571,679	2,026,043
36	571,329	2,026,632
37	570,776	2,027,564
38	570,966	2,027,613
39	570,849	2,027,919
40	571,126	2,028,029
41	571,018	2,028,312
42	571,100	2,028,343
43	571,738	2,026,791

US Army Corps of Engineers
Jacksonville District

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DRAWN BY: R. PINTO
CHECKED BY: M. NEVES
U.S. ARMY CORPS OF ENGINEERS JACKSONVILLE DISTRICT

FDEP WQC PERMIT PLATE
NOT FOR CONSTRUCTION

DESCRIPTION	DATE
RAI #001 RESPONSE	NOV 2019
RAI #001 RESPONSE	AUG 2019

COASTAL STORM RISK MANAGEMENT PROJECT
SOUTH PONTE VEDRA AND VILANO BEACH
ST. JOHNS COUNTY, FL

EBB SHOAL BORROW AREA - PLAN VIEW

DATED:
NOV 2019

PLATE
PL-22

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2019 NOV