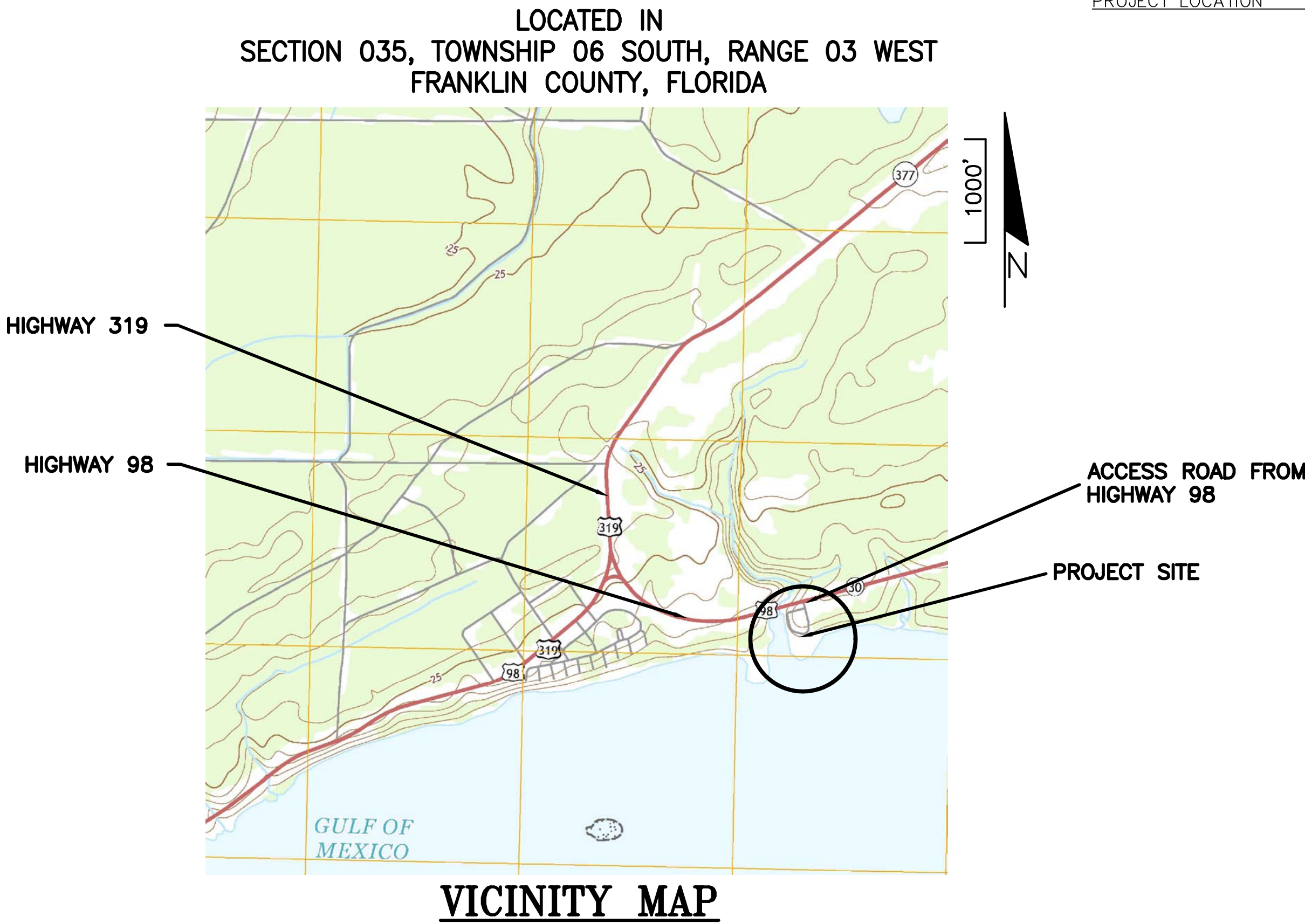


GENERAL SCOPE OF SITE WORK
FOR
CONSTRUCTION
OF
FLORIDA STATE UNIVERSITY COASTAL AND MARINE LABORATORY
Estuarine Habitat Enhancement
FRANKLIN COUNTY, FLORIDA
Final Design Set

SHEET INDEX

C100	COVER SHEET
C110	GENERAL NOTES
C200	EXISTING CONDITIONS PLAN 1 (NORTH)
C210	EXISTING CONDITIONS PLAN 2 (SOUTH)
C220	PLAN SHEET LOCATOR
C300	OYSTER REEF ENHANCEMENT PLAN VIEW
C310	SALT MARSH ENHANCEMENT PLAN VIEW
C320	BIRD NESTING HABITAT ENHANCEMENT PLAN AND PROFILE VIEWS
C330	DREDGE SPOIL DISPOSAL AREA PLAN VIEW
C400	TYPICAL CROSS SECTIONS
C500	EROSION AND SEDIMENT CONTROL PLAN 1 (NORTH)
C510	EROSION AND SEDIMENT CONTROL PLAN 2 (SOUTH)
C600	DETAILS

GOVERNING SPECIFICATIONS:
NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
UNITED STATES ARMY CORPS OF ENGINEERS
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
FLORIDA STATE UNIVERSITY COASTAL AND MARINE LABORATORY



SUNSHINE STATE ONE CALL OF FLORIDA
CALL BEFORE YOU DIG
1-800-432-4770

1. CALL 1-800-432-4770 TWO FULL BUSINESS DAYS (BUT NOT MORE THAN FIVE) BEFORE DIGGING TO FIND OUT WHERE BURIED FACILITIES (ELECTRIC, GAS, TELECOMMUNICATIONS, CABLE WATER, SEWER) ARE LOCATED.
2. WAIT THE REQUIRED TIME FOR THE UTILITIES ON SITE TO BE LOCATED AND MARKED WITH COLOR-CODED PAINT, FLAGS OR STAKES AND CONFIRM THAT THE SITE HAS BEEN LOCATED.
3. RESPECT AND PROTECT THE MARKS DURING THE PROJECT, IF MARKS ARE DESTROYED, REQUEST A NEW LOCATE TICKET.
4. DIG SAFELY, USING EXTREME CAUTION WHEN DIGGING WITHIN 24 INCHES ON EITHER SIDE OF THE MARKS TO AVOID HITTING THE BURIED UTILITY LINES.

DEVELOPER

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
FLORIDA STATE UNIVERSITY

PREPARED BY:

**amec
foster
wheeler**
Environment & Infrastructure, Inc.
2533 Greer Rd, Suite 6
Tallahassee, Florida, 32308
850-656-1293
Certificate Of Authorization #5392

JON M. DINGES,
STATE OF FLORIDA,
PROFESSIONAL ENGINEER,
LICENSE No. 54747

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SEALED BY JON M. DINGES,
P.E. ON AUGUST 18, 2017
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PROJECT:
**ESTUARINE HABITAT
ENHANCEMENT AT THE
FLORIDA STATE
UNIVERSITY COASTAL
AND MARINE
LABORATORY**



FWC PROJECT No:
FWC 15/16-026-16
Amec Foster Wheeler
PROJECT No: 600518

REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	JMD
DRAWN BY:	NNT
CHECKED BY:	RJW
APPROVED BY:	JMD
DATE:	8/18/2017

SHEET TITLE:

COVER SHEET

SHEET NUMBER:	REV. #
C100	
SHEET 1 OF 13 SHEETS	

123456

NOTES:

A. GENERAL

1. PROPERTY OWNER NAME AND ADDRESS:

FLORIDA STATE UNIVERSITY COASTAL AND MARINE LABORATORY
3618 U.S. HIGHWAY 98, ST. TERESA, FLORIDA 32358

PROJECT LOCATION: LAT: 29°54'58.12" N LONG: 84°30'38.67" W

2. DESCRIPTION: THIS PROJECT CONSISTS OF SITE IMPROVEMENTS, INCLUDING THE REMOVAL AND GRADING OF DREDGE CAST MATERIALS AND RELOCATION OF DREDGE SPOIL MATERIALS TO ENHANCE SALT MARSH, PLANTING NATIVE SALT MARSH VEGETATION, THE ENHANCEMENT AND EXPANSION OF EXISTING OYSTER REEF HABITAT AND THE ESTABLISHMENT OF A HISTORIC WATERBIRD NESTING HABITAT SITE WHILE MAINTAINING FORAGING HABITAT FOR NONBREEDING WATERBIRDS.

3. THE TYPES OF SOIL DISTURBANCE ACTIVITIES INCLUDE: DEWATERING, TRENCHING, PLACEMENT, GRADING AND EXCAVATING

4. SEQUENCE OF MAJOR ACTIVITIES:

(1) INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND MAINTAIN THROUGHOUT PROJECT

(2) CONSTRUCT STAGING AREAS

(3) REMOVE DREDGE SPOIL MATERIAL FROM SALT MARSH ENHANCEMENT AREA AND SOIL FROM BIRD NESTING ENHANCEMENT AREA AND STOCKPILE FOR DISPOSAL IN WEST DREDGE SPOIL DISPOSAL AREA. REMOVE HISTORIC CONCRETE WELL FROM SALT MARSH AND DISPOSE OFFSITE.

(4) EXCAVATE SOIL FROM EXISTING WEST DREDGE SPOIL AREA AND PLACE IN SALT MARSH ENHANCEMENT AREA TO DESIGN GRADE.

(5) CONSTRUCT OYSTER REEF ENHANCEMENT AREAS AROUND SALT MARSH ENHANCEMENT AREA.

(6) GRADE, STABILIZE, AND VEGETATE DISTURBED PORTIONS OF EXISTING WEST DREDGE SPOIL DISPOSAL AREA.

(7) CONSTRUCT REMAINING OYSTER REEF ENHANCEMENT AREAS.

(8) CONSTRUCT BIRD NESTING ENHANCEMENT AREAS.

(9) REMOVE TEMPORARY EROSION CONTROLS.

5. AREA ESTIMATES: TOTAL PARCEL BOUNDARY = 78 ± ACRES,

6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN NPDES PERMITS AND EROSION SEDIMENT CONTROL PLAN IN ACCORDANCE WITH SHEET C500 AND C510, ALSO TO DEVELOP AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP), IN ACCORDANCE WITH BOTH THE EPA NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES, THE FDEP GENERIC PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES AND ALL OTHER FEDERAL, STATE AND LOCAL REQUIREMENTS.

7. FWC AND FSU COASTAL AND MARINE LABORATORY AND THE CONTRACTOR SHALL HAVE A PRE-CONSTRUCTION MEETING TO DISCUSS THE COMPLEXITY AND POTENTIAL PUBLIC CONCERNS WITH THE PROJECT.

8. ELEVATIONS AND COORDINATES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND THE NORTH AMERICAN DATUM OF 1983, 1990 ADJUSTMENT EXPRESSED IN FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA NORTH ZONE.

9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION.

10. THE CONTRACTOR SHALL CHECK PLANS AND FIELD CONDITIONS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNERS'S ENGINEER OF ANY CONFLICT BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA.

11. IF, DURING THE PERFORMANCE OF THE WORK, THE CONTRACTOR DISCOVERS ANY CONFLICT, ERROR, AMBIGUITY, OR DISCREPANCY BETWEEN THE PLANS AND ANY PROVISION OF ANY SUCH LAW OR REGULATION APPLICABLE TO THE PERFORMANCE OF THE WORK OR OF ANY SUCH STANDARD, SPECIFICATION, MANUAL, OR CODE OR OF ANY INSTRUCTION OF ANY SUPPLIER, THE CONTRACTOR SHALL REPORT IT TO THE ENGINEER IN WRITING AT ONCE.

12. CONTRACTOR SHALL ADHERE TO THE LATEST REVISIONS AND/OR LATEST EDITION OF STANDARDS, SPECIFICATIONS, MANUALS, OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION OR ASSOCIATION, OR TO THE LAWS OR REGULATIONS OF ANY GOVERNMENTAL AUTHORITY.

13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND LICENSES WHICH ARE APPLICABLE AND NECESSARY FOR THE EXECUTION OF THE WORK PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTION.

14. THE CONTRACTOR SHALL KEEP AT THE SITE AND IN GOOD ORDER, ONE RECORD COPY OF ALL DRAWINGS AND SPECIFICATIONS. THESE DOCUMENTS SHALL BE ANNOTATED ON A CONTINUING BASIS TO SHOW ALL CHANGES MADE DURING THE CONSTRUCTION PROCESS AND AVAILABLE TO THE ENGINEER UPON REQUEST.

15. AT LEAST 3 WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND APPROPRIATE AGENCIES AND SUPPLY THEM WITH ALL REQUIRED SHOP DRAWINGS, THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE, AND OTHER INFORMATION AS REQUIRED. THE CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO BE USED ON THE SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. ENGINEER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE CONTRACTOR'S RESPONSIBILITY FOR PERFORMANCE OF THE ITEM.

16. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR. REPAIR AND REPLACEMENT OF ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS BEFORE COMMENCING CONSTRUCTION WORK UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. ADDITIONAL COSTS ARE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.

17. RECORD DRAWINGS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING INFORMATION ON A SET OF THE APPROVED PLANS CONCURRENTLY WITH CONSTRUCTION PROGRESS. WITHIN TWO WEEKS FOLLOWING FINAL INSPECTION THE CONTRACTOR SHALL SUBMIT FIVE SETS OF RECORD DRAWINGS TO THE ENGINEER OF RECORD. THE FINAL RECORD DRAWINGS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

A. DRAWINGS TO BE LEGIBLY MARKED TO RECORD ACTUAL CONSTRUCTION.

B. DRAWINGS SHALL SHOW ACTUAL LOCATION OF ALL UTILITIES, AND RELATED APPURTENANCES, BOTH ABOVE AND BELOW GROUND. ALL CHANGES TO PIPING LOCATION INCLUDING HORIZONTAL & VERTICAL LOCATIONS OF UTILITIES & APPURTENANCES SHALL BE CLEARLY SHOWN AND REFERENCED TO PERMANENT SURFACE IMPROVEMENTS. DRAWINGS SHALL ALSO SHOW ACTUAL INSTALLED PIPE MATERIAL, ETC.

C. DRAWINGS SHALL CLEARLY SHOW ALL FIELD CHANGES OF DIMENSION AND DETAIL INCLUDING CHANGES MADE BY FIELD ORDER OR BY CHANGE ORDER. DRAWINGS SHALL CLEARLY SHOW LOCATIONS, DIMENSIONS, AND ELEVATIONS OF ALL DISCHARGE STRUCTURES, INCLUDING WEIRS AND ORIFICES. DRAWINGS SHALL CLEARLY INDICATE THE SIZE IN ACRES, SIDE SLOPES, DIMENSIONS, ELEVATIONS, ETC. OF ALL DETENTION/RETENTION AREAS. DRAWINGS SHALL CLEARLY SHOW FINAL GRADE INFORMATION INCLUDING DIMENSIONS, ELEVATIONS, CONTOURS, ETC. DRAWINGS SHALL CLEARLY SHOW THE LOCATION AND DESCRIPTION OF ALL SURVEY BENCHMARKS.

D. DRAWINGS SHALL CLEARLY SHOW ALL DETAILS NOT ON ORIGINAL CONTRACT DRAWINGS BUT CONSTRUCTED IN THE FIELD. ALL EQUIPMENT AND PIPING RELOCATION SHALL BE CLEARLY SHOWN.

E. LOCATIONS OF ALL MANHOLES, HYDRANTS, VALVES, & VALVE BOXES SHALL BE SHOWN.

F. THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR.

18. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, OR THE SAFETY PRECAUTIONS AND PROGRAMS USED. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

19. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, ANY SUBCONTRACTORS, ANY AGENTS, EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK.

20. CONTRACTOR IS TO VERIFY/ENSURE ALL EQUIPMENT TRANSPORTED TO SITE IS WASHED AND FREE OF ANY SOIL, SEED, OR ORGANIC MATERIAL BEFORE ENTERING THE PROJECT PROPERTY.

21. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING THE SITE PRIOR TO CONSTRUCTION AND ACCEPTING THE EXISTING CONDITIONS.

B. TEMPORARY EROSION AND SEDIMENT CONTROL

1. CONTRACTOR SHALL INSTALL PRIOR TO AND MAINTAIN DURING CONSTRUCTION ALL SEDIMENT CONTROL MEASURES AS REQUIRED TO RETAIN ALL SEDIMENTS ON THE SITE. IMPROPER SEDIMENT CONTROL MEASURES MAY RESULT IN CODE ENFORCEMENT VIOLATIONS.

2. ALL SILT FENCES AND TURBIDITY BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT FENCE AND TURBIDITY BARRIERS ARE INSTALLED.

3. SILT FENCE AND TURBIDITY BARRIERS ARE TO BE PLACED AS SHOWN AND/OR DIRECTED BY ENGINEER.

4. EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST DAILY, AFTER EACH RAIN AND REPAIRED BY THE GENERAL CONTRACTOR. CLEAN OUT OF SEDIMENT CONTROL STRUCTURES WILL BE PERFORMED BY THE CONTRACTOR WHEN SEDIMENT HAS ACCUMULATED TO ONE-THIRD (1/3) OF THE HEIGHT OF THE INDIVIDUAL STRUCTURE FOR TEMPORARY SEDIMENT BASINS & RETROFITTED DETENTION PONDS, ONE-HALF (1/2) FULL FOR SILT FENCE, TURBIDITY BARRIERS, CHECK DAMS, ROCK FILTER DAMS, AND INLET SEDIMENT TRAPS.

5. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING SEDIMENT AND EROSION CONTROL MEASURES TO PROVIDE OPTIMUM SEDIMENT AND EROSION CONTROL. SEDIMENT AND EROSION CONTROL MEASURES SHALL COMPLY WITH CHAPTER 6 OF THE FLORIDA DEVELOPMENT MANUAL.

6. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION OF FWC DESIGNATED REPRESENTATIVE.

7. THE CONTRACTOR SHALL PROTECT ANY EXISTING DITCHES, WETLAND VEGETATION, STORM DRAIN PIPES, AND INLETS IN THE VICINITY OF WORK TO BE PERFORMED FROM DAMAGE OR SILTATION, WHETHER OR NOT SPECIFICALLY IDENTIFIED IN THE PLANS.

8. EROSION CONTROL MEASURES DESCRIBED SHALL BE MAINTAINED UNTIL PERMANENT DRAINAGE FACILITIES HAVE BEEN RECONSTRUCTED AND GRASS ON PLANTED SLOPES IS SUFFICIENTLY ESTABLISHED TO BE AN EFFECTIVE EROSION DETERRENT.

9. ALL GRASSING SHALL BE IN ACCORDANCE WITH THE ATTACHED SPECIFICATIONS.

10. CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD INTO PUBLIC STREETS. IF TRACKING OR FLOW OF MUD OCCURS, CONTRACTOR SHALL CONSTRUCT A SOIL TRACKING PREVENTION DEVICE IN ACCORDANCES WITH FDOT DESIGN STANDARD 2006, INDEX NO. 106 AND AS SHOWN IN THESE PLANS.

11. TEMPORARY PROTECTION DEVICES MUST BE MAINTAINED UNTIL PROJECT COMPLETION OR VEGETATION MEASURES ARE ESTABLISHED.

12. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES UPON ESTABLISHMENT OF PERMANENT VEGETATION OR PROJECT COMPLETION.

13. SILT FENCE AND TURBIDITY BARRIERS SHALL MEET THE REQUIREMENTS OF FDOT DESIGN STANDARDS 2010, INDEX NO. 102 AND 103.

14. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTROL OF EROSION WITHIN THE WORK SITE AND PREVENTION OF SEDIMENTATION OF ANY ADJACENT OR DOWNSTREAM WATERWAYS. THE EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR'S METHODS OF OPERATION MAY DICTATE ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND INSTALLING ADDITIONAL MEASURES.

15. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 20 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

16. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

17. NOTIFY APPROPRIATE FWC REPRESENTATIVE 24 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

C. EXISTING INFRASTRUCTURE AND RESOURCES

1. CONSTRUCTION ACCESS AND HAUL ROADS WILL BE REPAIRED AND RETURNED TO PRE-CONSTRUCTION CONDITION OR BETTER.

2. THE CONTRACTOR IS ADVISED TO FIELD LOCATE THE EXISTING SEAWATER INTAKE PIPES AND AVOID IMPACTS DURING CONSTRUCTION

3. THE OUTLINES OF EXISTING SEA GRASS, OYSTER, SALT MARSH, AND POTENTIAL BIRD NESTING AREAS THAT ARE PROVIDED IN THIS PLAN SET ARE FOR GUIDANCE ONLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR FIELD LOCATION OF COASTAL RESOURCES DURING CONSTRUCTION.

E. OVERHEAD UTILITY LINE

1. CONTRACTOR SHOULD NOTE LOCATION OF OVERHEAD ELECTRIC UTILITY LINES THROUGHOUT THE WORK AREA.

F. SAFETY NOTES

1. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF ITS PERSONNEL. LABOR SAFETY REGULATIONS SHALL BE AS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) IN THE FEDERAL REGISTER OF THE DEPARTMENT OF LABOR.

2. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.

G. ELEVATIONS

1. ELEVATIONS IN THE SET OF PLANS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988.

PREPARED BY:

amec
foster
wheeler

Environment & Infrastructure, Inc.
2533 Greer Rd, Suite 6
Tallahassee, Florida, 32308
850-656-1293
Certificate Of Authorization #5392

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PROJECT:
ESTUARINE HABITAT
ENHANCEMENT AT THE
FLORIDA STATE
UNIVERSITY COASTAL
AND MARINE
LABORATORY

FLORIDA STATE UNIVERSITY
1851

FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION

FWC PROJECT No:
FWC 15/16-026-16
Amec Foster Wheeler
PROJECT No: 600518

REVISIONS

NO.	DATE	BY	APPROVED

DESIGNED BY: JMD

DRAWN BY: NNT

CHECKED BY: RJW

APPROVED BY: JMD

DATE: 8/18/2017

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER: C110

REV. #

SHEET 2 OF 13 SHEETS



PREPARED BY:



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foster
wheeler**
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Tallahassee, Florida, 32308
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N



0 150' 300'

SCALE: 1" = 150'

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FWC PROJECT No:
FWC 15/16-026-16
Amec Foster Wheeler
PROJECT No: 600518

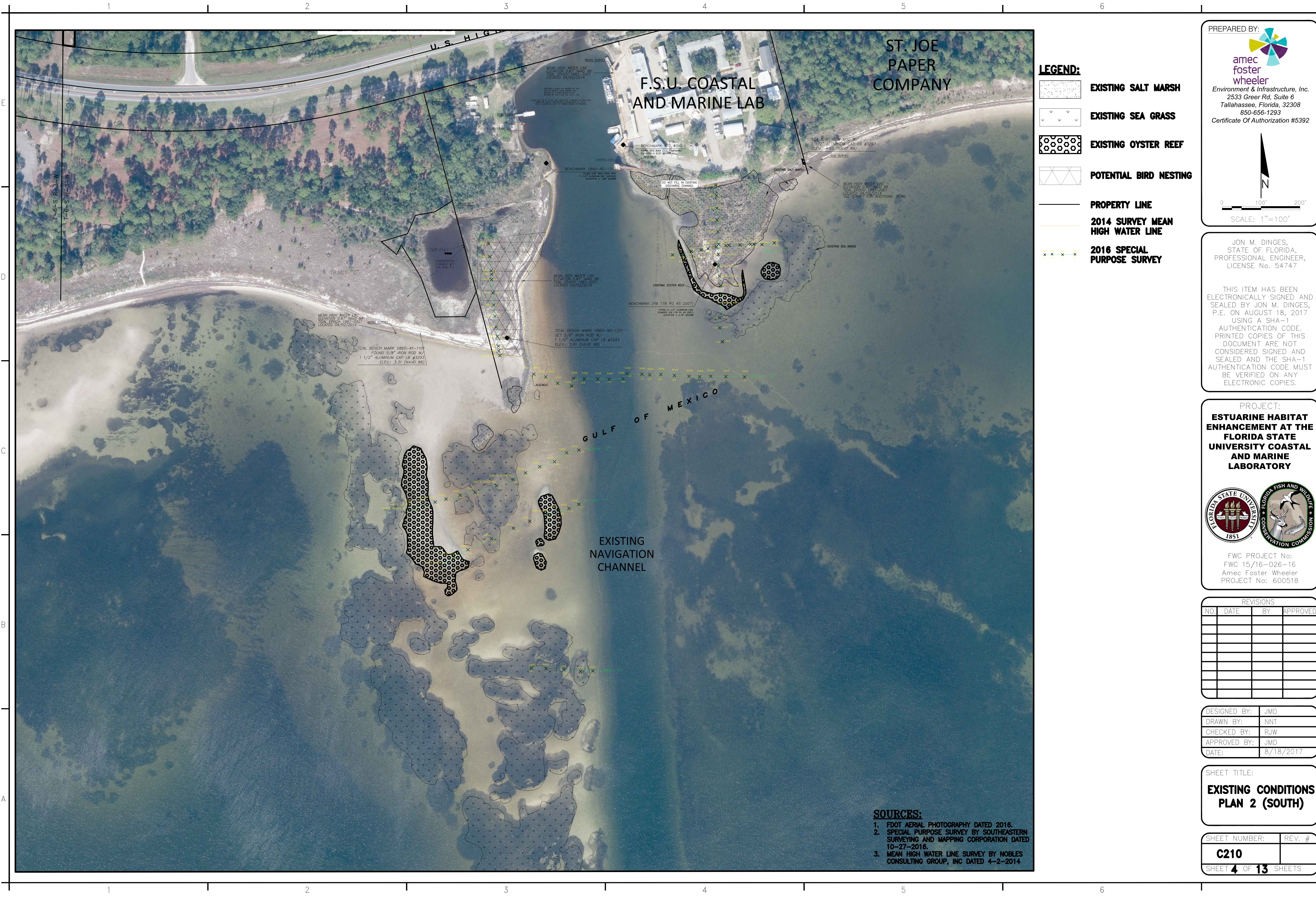
REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	JMD
DRAWN BY:	NNT
CHECKED BY:	RJW
APPROVED BY:	JMD
DATE:	8/18/2017

SHEET TITLE:
**EXISTING CONDITIONS
PLAN 1 (NORTH)**

SHEET NUMBER:	REV. #
C200	
SHEET 3 OF 13 SHEETS	

- SOURCES:**
- 1. FDOT AERIAL PHOTOGRAPHY DATED 2016.
 - 2. SPECIAL PURPOSE SURVEY BY SOUTHEASTERN SURVEYING AND MAPPING CORPORATION DATED 10-27-2016.
 - 3. MEAN HIGH WATER LINE SURVEY BY NOBLES CONSULTING GROUP, INC DATED 4-2-2014



LEGEND:

- EXISTING SALT MARSH
- EXISTING SEA GRASS
- EXISTING OYSTER REEF
- POTENTIAL BIRD NESTING
- PROPERTY LINE
- 2014 SURVEY MEAN HIGH WATER LINE
- 2016 SPECIAL PURPOSE SURVEY

PREPARED BY:

amec foster wheeler
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Tallahassee, Florida, 32308
850-656-1293
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N

0 100' 200'

SCALE: 1"=100'

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FWC PROJECT No:
FWC 15/16-026-16
Amec Foster Wheeler
PROJECT No: 600518

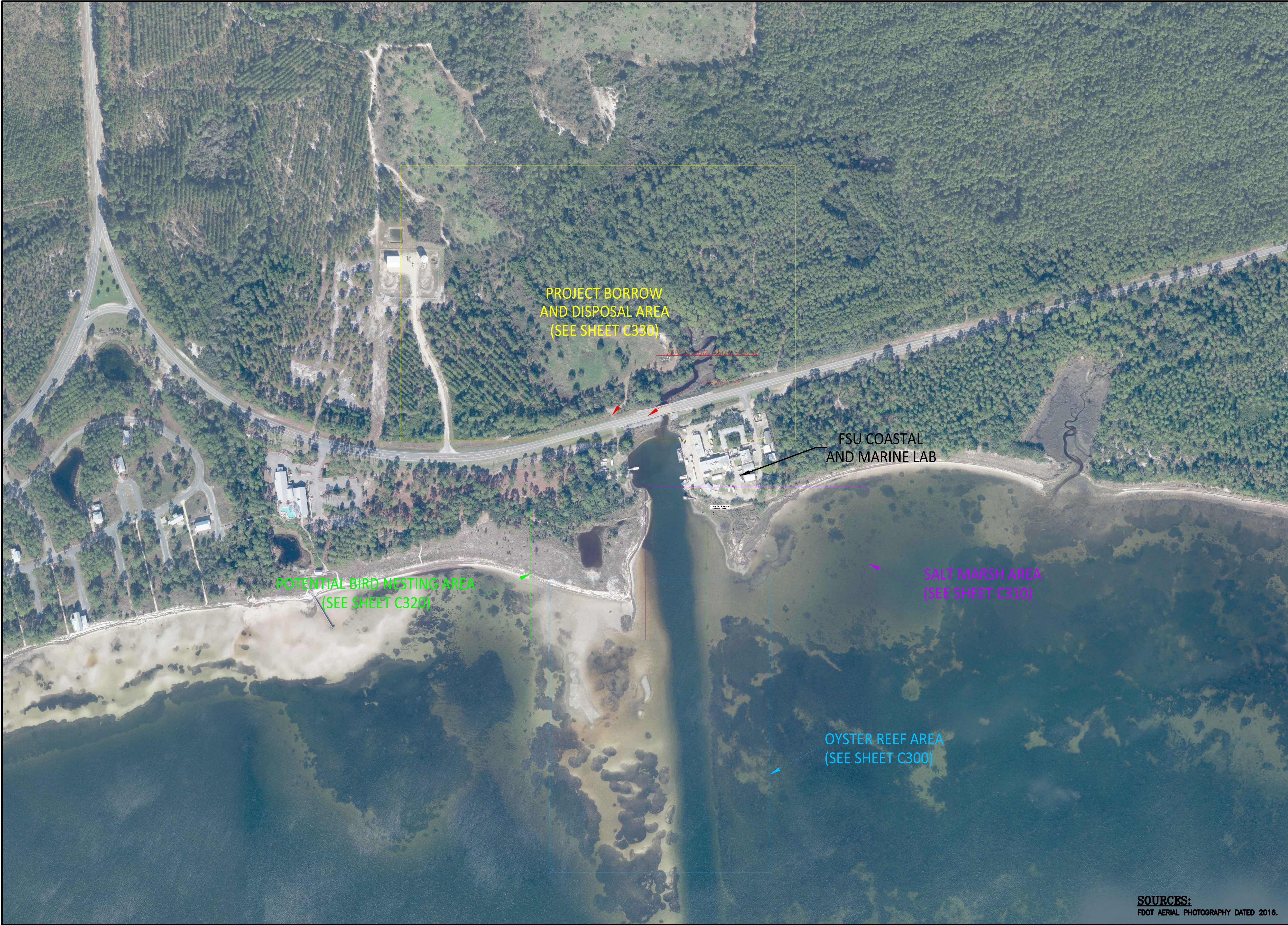
REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	JMD
DRAWN BY:	NNT
CHECKED BY:	RJW
APPROVED BY:	JMD
DATE:	8/18/2017

SHEET TITLE:
**EXISTING CONDITIONS
PLAN 2 (SOUTH)**

SHEET NUMBER:	REV. #
C210	
SHEET 4 OF 13 SHEETS	

- SOURCES:**
1. FDOT AERIAL PHOTOGRAPHY DATED 2016.
 2. SPECIAL PURPOSE SURVEY BY SOUTHEASTERN SURVEYING AND MAPPING CORPORATION DATED 10-27-2016.
 3. MEAN HIGH WATER LINE SURVEY BY NOBLES CONSULTING GROUP, INC DATED 4-2-2014



SOURCES:
FDOT AERIAL PHOTOGRAPHY DATED 2016.

PREPARED BY:

**amec
foster
wheeler**
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2533 Greer Rd, Suite 6
Tallahassee, Florida, 32308
850-656-1293
Certificate Of Authorization #5392

N

0 200' 400'

SCALE: 1"=200'

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FWC PROJECT No:
FWC 15/16-026-16
Amec Foster Wheeler
PROJECT No: 600518

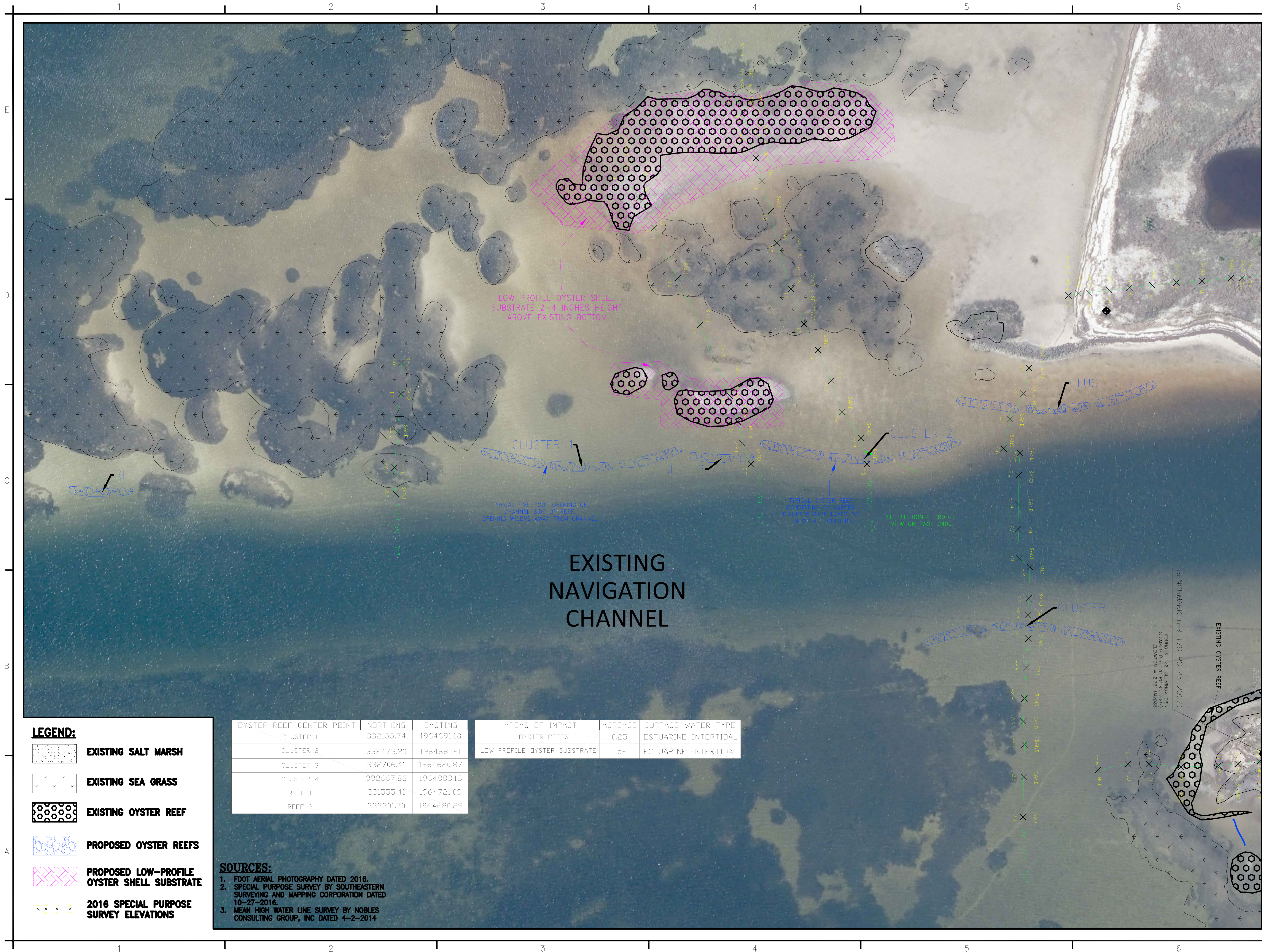
REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	JMD
DRAWN BY:	NNT
CHECKED BY:	RJW
APPROVED BY:	JMD
DATE:	8/18/2017

SHEET TITLE:

PLAN SHEET LOCATOR

SHEET NUMBER:	REV. #
C220	
SHEET 5 OF 13 SHEETS	



LEGEND:

- EXISTING SALT MARSH
- EXISTING SEA GRASS
- EXISTING OYSTER REEF
- PROPOSED OYSTER REEFS
- PROPOSED LOW-PROFILE OYSTER SHELL SUBSTRATE
- 2016 SPECIAL PURPOSE SURVEY ELEVATIONS

OYSTER REEF CENTER POINT	NORTHING	EASTING
CLUSTER 1	332133.74	1964691.18
CLUSTER 2	332473.20	1964681.21
CLUSTER 3	332706.41	1964620.87
CLUSTER 4	332667.86	1964883.16
REEF 1	331555.41	1964721.09
REEF 2	332301.70	1964680.29

AREAS OF IMPACT	ACREAGE	SURFACE WATER TYPE
OYSTER REEFS	0.25	ESTUARINE INTERTIDAL
LOW PROFILE OYSTER SUBSTRATE	1.52	ESTUARINE INTERTIDAL

SOURCES:

1. FDOT AERIAL PHOTOGRAPHY DATED 2016.
2. SPECIAL PURPOSE SURVEY BY SOUTHEASTERN SURVEYING AND MAPPING CORPORATION DATED 10-27-2016.
3. MEAN HIGH WATER LINE SURVEY BY NOBLES CONSULTING GROUP, INC DATED 4-2-2014

PREPARED BY:

amec foster wheeler
Environment & Infrastructure, Inc.
2533 Greer Rd, Suite 6
Tallahassee, Florida, 32308
850-656-1293
Certificate Of Authorization #5392

0 50' 100'

SCALE: 1"=50'

JON M. DINGES,
STATE OF FLORIDA,
PROFESSIONAL ENGINEER,
LICENSE No. 54747

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JON M. DINGES, P.E. ON AUGUST 18, 2017 USING A SHA-1 AUTHENTICATION CODE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

PROJECT:
ESTUARINE HABITAT ENHANCEMENT AT THE FLORIDA STATE UNIVERSITY COASTAL AND MARINE LABORATORY

FLORIDA STATE UNIVERSITY 1851

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

FWC PROJECT No:
FWC 15/16-026-16
Amec Foster Wheeler
PROJECT No: 600518

REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	JMD
DRAWN BY:	NNT
CHECKED BY:	RJW
APPROVED BY:	JMD
DATE:	8/18/2017

SHEET TITLE:
OYSTER REEF ENHANCEMENT AREA PLAN VIEW

SHEET NUMBER:	REV. #
C300	
SHEET 6 OF 13 SHEETS	



AREAS OF IMPACT	ACREAGE	WETLAND/SURFACE WATER TYPE
BAGGED OYSTER REEFS	0.02	ESTUARINE INTERTIDAL
DREDGE	0.17	ESTUARINE INTERTIDAL EMERGENT
FILL	0.64	ESTUARINE INTERTIDAL EMERGENT

- SOURCES:**
1. FDOT AERIAL PHOTOGRAPHY DATED 2016.
 2. SPECIAL PURPOSE SURVEY BY SOUTHEASTERN SURVEYING AND MAPPING CORPORATION DATED 10-27-2016.
 3. MEAN HIGH WATER LINE SURVEY BY NOBLES CONSULTING GROUP, INC DATED 4-2-2014

LEGEND:

- EXISTING SALT MARSH
- EXISTING SEA GRASS
- EXISTING OYSTER REEF
- PROPOSED SALT MARSH FILL
- PROPOSED SALT MARSH CUT AND FILL
- PROPOSED OYSTER REEFS
- PROPOSED BAG OYSTER REEFS
- 2016 SPECIAL PURPOSE SURVEY
- 2014 SURVEY MEAN HIGH WATER LINE

PREPARED BY:

amec foster wheeler
Environment & Infrastructure, Inc.
2533 Greer Rd, Suite 6
Tallahassee, Florida, 32308
850-656-1293
Certificate Of Authorization #5392

0 30' 60'

SCALE: 1"=30'

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PROJECT:

ESTUARINE HABITAT ENHANCEMENT AT THE FLORIDA STATE UNIVERSITY COASTAL AND MARINE LABORATORY



FWC PROJECT No:
FWC 15/16-026-16
Amec Foster Wheeler
PROJECT No: 600518

REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	JMD
DRAWN BY:	NNT
CHECKED BY:	RJW
APPROVED BY:	JMD
DATE:	8/18/2017

SHEET TITLE:

SALT MARSH ENHANCEMENT PLAN VIEW

SHEET NUMBER:	REV. #
C310	
SHEET 7 OF 13 SHEETS	