



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, JACKSONVILLE DISTRICT
701 SAN MARCO BOULEVARD
JACKSONVILLE, FLORIDA 32207

August 16, 2019

Regulatory Division
West Branch
Tampa Permits Section
Gainesville Field Office

PUBLIC NOTICE

Permit Application No. SAJ-2018-03165 (SP-JED)

TO WHOM IT MAY CONCERN: The Jacksonville District of the U.S. Army Corps of Engineers (Corps) has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. §1344) and Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. §403) as described below:

APPLICANT: Levy County Board of County Commissioners
Attn: Wilbur Dean
P.O. Box 310
Bronson, FL 32621

WATERWAY AND LOCATION: The project would affect waters of the United States associated with the Gulf of Mexico. The project site is located at 8000 Highway 40 West (a.k.a. Bird Creek Boat Ramp), in Section 14, Township 17 South, Range 15 East, Yankeetown, Levy County, Florida.

Directions to the site are as follows: From U.S. Highway 19 in Inglis, head west on Southeast 193rd Place/40A then continue west on Highway 40 for approximately 3.5 miles. The project site is located at the westernmost extent of Highway 40.

APPROXIMATE CENTRAL COORDINATES: Latitude 29.001365°
Longitude -82.761691°

PROJECT PURPOSE:

Basic: The basic project purpose is to provide access to navigable waters.

Overall: The overall project purpose is to expand boating access to the Gulf of Mexico in Yankeetown, Florida.

EXISTING CONDITIONS: The wetland system consists of a saltwater system. The project site is located on a finger of land that supports the westernmost extent of Follow That Dream Parkway / Highway 40A. There is an existing public boat ramp with trailer parking spaces along the road way shoulder with a limited turn around area at the top of the existing ramp. The north side of the project site is adjacent to the Gulf of Mexico.

The shoreline of the north side of the project site supports patchy concentrations of low marsh species such as mangrove and black needle rush, with higher marsh species such as salt bush and Christmas berry along the edge of the existing roadway, turn around area. The south side of the project site lies along the westernmost extent of the Withlacoochee River which is highly channelized and experiences high levels of wave action due to high traffic in the channel. Thus, the shoreline of the south side exhibits extensive areas of bare bank and dilapidated riprap revetment. There are some sparse concentrations of cord grass in this area, and cabbage palm trees. The benthic habitat at the project site consists of mud bottom with patches of relict oyster concentrations. The proposed work areas do not support submerged aquatic vegetation.

PROPOSED WORK: The applicant seeks authorization to complete the following work: Demolish and haul away the existing Bird Creek Boat Ramp, courtesy docks, and associated parking area;

Discharge 200 cubic yards of stone underlayment below the mean high water line to construct a 100-foot-long by 30-foot-wide concrete push slab boat ramp;

Discharge 185 cubic yards of riprap material over a 0.06 acre area below the mean high water line to construct a 10-foot-wide riprap revetment around all sides of the proposed ramp;

Discharge 393 cubic yards of riprap material into 0.163 waters of the United States consisting of mangrove (above the mean high water line) and salt marsh wetlands to construct a 2:1 slope riprap revetment to stabilize the north and south banks of the roadway and parking area improvement;

Construct a 225-foot-long by 8-foot-wide boardwalk to the south of the proposed ramp along the bank of the Withlacoochee River. The boardwalk would have a 15-foot-long by 15-foot-wide terminal observation platform on each end, a 20-foot-long by 20-foot-wide covered picnic pavilion at its center. Two 27-foot-long by 8-foot-wide access piers would connect the boardwalk to the shoreline.

AVOIDANCE AND MINIMIZATION INFORMATION – The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment:

The applicant stated that it has designed the proposed project to avoid the highest quality wetland habitats present within the proposed project site. Specifically, the applicant shifted the proposed infrastructure away from the higher quality wetland resources on the north side of the project site in favor of impacting the lower quality wetland resources on the south side of project site.

Furthermore, the applicant stated that it has minimized the proposed impacts to the greatest extent practicable to be able to construct a safe ramp with sufficient roadway access, and suitable parking to accommodate the typical use at the ramp.

COMPENSATORY MITIGATION – The applicant has offered the following compensatory mitigation plan to offset unavoidable functional loss to the aquatic environment:

In order to offset the unavoidable impacts associated with this project, the applicant proposes to create 0.142 acres of living shoreline salt marsh to the north of the proposed Bird Creek Boat Ramp. To establish the living shoreline, the applicant proposes to: remove areas of existing riprap revetment north of the ramp; grade the shoreline to match the elevations of adjacent, functioning marsh; plant high marsh species such as Sea Myrtle, Saltwort, Christmas Berry, Sea meadow Cord Grass, and black needle rush; plant low marsh species such as saltmarsh cordgrass, Black mangrove, and red mangrove; and construct a breakwater with swim through gaps waterward of the plantings to ensure their establishment.

CULTURAL RESOURCES: The Corps is not aware of any known historic properties within the permit area. By letter to the applicant dated January 30, 2019, the State Historic Preservation Officer (SHPO) stated that the proposed project is unlikely to adversely affect and historic properties or cultural resources. However, SHPO requested that any authorization the Corps may provide for the proposed project include conditions advising the applicant of the procedures it must follow in the event that it uncovers any unanticipated resources while completing the proposed work. (DHR Project File Number 2019-257)

ENDANGERED SPECIES:

The Corps has determined the proposal **may affect** the **West Indian Manatee**. Since the proposal by the applicant is for in-water construction, potential impacts to the endangered West Indian manatee were evaluated using *The Corps of Engineers, Jacksonville District, and the State of Florida Effect Determination Key for the Manatee in Florida, April 2013*. Use of this key resulted in the following sequential determination: A>B>C>D>G>H>I>J>L>M(2)>May affect. The proposed project involves the expansion of a multi-slip facility in a designated Important Manatee Area in Levy County. Thus, this key recommends an initial determination of may affect. However, the applicant agreed to abide by the *Standard Manatee Conditions for In-Water Work, 2011*, the project involves land-based excavation of the proposed ramp, and the project would not impact submerged aquatic vegetation. The Corps will request initiation of formal consultation with the Fish and Wildlife Service pursuant to Section 7 of the Endangered Species Act by separate letter.

Sea turtles (loggerhead, leatherback, Kemp's ridley, hawksbill, and green); smalltooth sawfish; Johnson's seagrass; Gulf sturgeon; corals (elkhorn, staghorn, boulder star, mountainous star, lobed star, rough cactus, and pillar), smalltooth sawfish, and elkhorn and staghorn corals: The Corps determined that

the proposed project is **not likely to adversely affect** these species. The Corps completed programmatic consultation with the National Marine Fisheries Service Protected Resources Division (NMFS) on these species. The NMFS provided the *U.S. Army Corps of Engineers Jacksonville District's Programmatic Biological Opinion* (JAXBO), dated 20 November 2017, file 1514-22.F.4, Reference F/SER31:NMB SER-2015-17616. The JAXBO analyzes the effects from 10 categories of minor in-water activities occurring in Florida. The Corps conducted a project specific review, and received NMFS permission to utilize JAXBO for the proposed project via separate correspondence. Based on a review of the information above, the Corps has determined that it has fulfilled its responsibilities under Section 7(a) (2) of the Endangered Species Act for these species.

ESSENTIAL FISH HABITAT (EFH): This notice initiates consultation with the National Marine Fisheries Service on EFH as required by the Magnuson-Stevens Fishery Conservation and Management Act 1996. The proposal would impact approximately 0.163 acres of salt marsh and .07 acre of mud bottom potentially utilized by various life stages of Penaeid shrimp complex; red drum; stone crab; spiny lobster; and/or the snapper/grouper complex. Our initial determination is that the proposed action, in conjunction with the proposed compensatory mitigation, would not have a substantial adverse impact on EFH or Federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

NOTE: This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The jurisdictional line has been verified by Corps personnel.

AUTHORIZATION FROM OTHER AGENCIES: Water Quality Certification may be required from the Florida Department of Environmental Protection and/or one of the state Water Management Districts.

COMMENTS regarding the potential authorization of the work proposed should be submitted in writing to the attention of the District Engineer through the Tampa Permits Section, Gainesville Field Office, 2833 NW 41st Street, Unit 130, Gainesville, FL 32606, within 30 days from the date of this notice.

The decision whether to issue or deny this permit application will be based on the information received from this public notice and the evaluation of the probable impact to the associated wetlands. This is based on an analysis of the applicant's avoidance and minimization efforts for the project, as well as the compensatory mitigation proposed.

QUESTIONS concerning this application should be directed to the project manager, James Davidson, in writing at the Tampa Permits Section, Gainesville Field Office, 2833 NW 41st Street, Unit 130, Gainesville, FL 32606; by electronic mail at

james.e.davidson2@usace.army.mil; by facsimile transmission at (352)264-7733; or, by telephone at (352)264-7672.

IMPACT ON NATURAL RESOURCES: Coordination with U.S. Fish and Wildlife Service, Environmental Protection Agency (EPA), the National Marine Fisheries Services, and other Federal, State, and local agencies, environmental groups, and concerned citizens generally yields pertinent environmental information that is instrumental in determining the impact the proposed action will have on the natural resources of the area.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act or the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest.

The US Army Corps of Engineers (Corps) is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other Interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this determination, comments are used to assess impacts to endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

COASTAL ZONE MANAGEMENT CONSISTENCY: In Florida, the State approval constitutes compliance with the approved Coastal Zone Management Plan. In Puerto Rico, a Coastal Zone Management Consistency Concurrence is required from the Puerto Rico Planning Board. In the Virgin Islands, the Department of Planning and Natural Resources permit constitutes compliance with the Coastal Zone Management Plan.

REQUEST FOR PUBLIC HEARING: Any person may request a public hearing. The request must be submitted in writing to the District Engineer within the designated comment period of the notice and must state the specific reasons for requesting the public hearing.

CONSTRUCTION PLANS FOR:

BIRD CREEK BOAT RAMP IMPROVEMENTS

PREPARED FOR:

BOARD OF COUNTY COMMISSIONERS
LEVY COUNTY, FLORIDA

PREPARED BY:



654 SE BAYA DR. LAKE CITY, FL 32025
(352) 719-9985

PROJECT NUMBER - 50088572

JANUARY 2019

DRAWING LIST		
Sheet Number	Sheet Title	Revisions
1	COVER SHEET	
1A	GENERAL NOTES AND EROSION CONTROL	
1B	BROWN CONTROL DETAIL	
2C	TYPICAL CROSS SECTION	
3	EXISTING CONDITIONS	
4	DEMOLITION AND EROSION CONTROL	
5	PROPOSED SITE PLAN	
6	SITE GEOMETRY PLAN	
7	PIVING AND DRAINAGE	
8	PLAN AND PROFILE	
9A	CROSS SECTIONS	
9B	CROSS SECTIONS	
9C	CROSS SECTIONS	
9D	CROSS SECTIONS	
9E	CROSS SECTIONS	
9F	CROSS SECTIONS	
10A	BOAT RAMP AND DOCK DETAILS	
10B	PILE BENT DETAILS	



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www.callunshine.com

VICINITY MAP



LOCATION MAP



AERIAL LOCATION



654 S.E. Baya Drive
Lake City, FL 32055
386.719.9985

BIRD CREEK BOAT RAMP IMPROVEMENTS
BOARD OF COUNTY COMMISSIONERS
LEVY COUNTY
FLORIDA

SCALE

WILLIAM MENZIES, P.E., 74581
ES0000704

PRELIMINARY NOT FOR CONSTRUCTION

SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: BTW
APPROVED BY: WAW
CHECKED BY: WAW
DATE: JANUARY 2019

TITLE
COVER SHEET

PROJECT NO. 50088572

1

SHEET NO.

STORMWATER POLLUTION PREVENTION PLAN

1. SITE DESCRIPTION: EXISTING PUBLIC BOAT RAMP WITH PARKING
2. CONSTRUCTION ACTIVITIES: TRANSPORT NEW BOAT RAMP, DOCKS, AND PARKING AREA

TOTAL PROJECT AREA: 101.40 AC OF 12.33 ACRES
TOTAL SITE AREA TO BE DISTURBED: 80,897 SF / 1.46 ACRES

3. RUNOFF COEFFICIENTS BEFORE, DURING, AND AFTER CONSTRUCTION: 0.50 / 0.67 / 0.48
DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE: N/A
ESTIMATES OF SIZE OF DRAINAGE AREA FOR EACH OUTFALL: N/A

4. FOR LOCATIONS OF DRAINAGE AREAS AND OUTFALLS: N/A

NAME OF RECEIVING WATERS: INTERNATIONAL RIVER / GULF OF MEXICO
WETLANDS IMPACT AREA: 0.12 ACRES

1. CONTROLS:

MAINTAIN A SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS
THE SOIL DISTURBING ACTIVITIES FOR THIS PROJECT ARE AS FOLLOWS: ONLY UPON PROPER PLACEMENT OF ALL EROSION CONTROLS CAN
SOIL DISTURBING ACTIVITIES TAKE PLACE. SILT FENCE WILL BE USED LATERALLY AT SPECIFIED INTERVALS, FLOATING TURBIDITY
BARRIERS WILL BE USED FOR ALL ACTIVITIES WITHIN THE WATERS.

2. EROSION AND SEDIMENT CONTROLS:

- (1) STABILIZATION PRACTICES:
X TEMPORARY SEEDING
X TEMPORARY GRASSING
X PERMANENT PLANTING, SEEDING, OR SEEDING
TEMPORARY MULCHING
X ARTIFICIAL COVERING
X BUFFER ZONES
X PRESERVATION OF NATURAL RESOURCES

2A. STRUCTURAL PRACTICES:

- SAND BAGGING
- X SILT FENCES
- X HAY BALES
- X BERMING
- X DIVERSION INTERCEPTOR, OR PERIMETER DITCHES
- PIPE SLOPE CHAINS
- X FLOWERS
- ROCK BEDDING AT CONSTRUCTION EXIT
- TIMBER BERMING AT CONSTRUCTION EXIT
- DITCH LINER

SEDIMENT TRAPS
SEDIMENT BASINS
STORM/INLET SEDIMENT TRAP (ROCK BASIN)
X STONE OUTLET STRUCTURES
CURBS AND GUTTERS
STORM SEWERS
X VELOCITY CONTROL DEVICES
X TURBIDITY BARRIER
X SLOPE

2C. DESCRIPTION OF STORMWATER MANAGEMENT: FLORIDA LIVING SHORELINE

2D. OTHER CONTROLS:

- (1) WASTE DISPOSAL: NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE
- (2) SITE VISIBILITY: TRUCKING:
HAUL ROADS DAMPENED FOR DUST CONTROL
X LOADED HAUL TRUCKS TO BE COVERED WITH TARP/AULIN
X EXCESS DIRT ON ROAD REMOVED DAILY
X STABILIZED CONSTRUCTION ENTRANCE
- (3) SANITARY WASTE: PORTABLE RESTROOMS WILL BE PROVIDED ON-SITE DURING CONSTRUCTION.
- (4) FERTILIZERS AND PESTICIDES: FERTILIZERS AND/OR PESTICIDES SHALL BE APPLIED ACCORDING TO MANUFACTURERS
RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR AS DIRECTED BY THE PROJECT ENGINEER.
- (5) NON-POINT STORMWATER DISCHARGE (INCLUDING SPILL REPORTING): NO NON-POINT STORMWATER DISCHARGES ARE ANTICIPATED.

2. MAINTENANCE:

ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE,
BUT NO LATER THAN (7) CALENDAR DAYS AFTER THE SURROUNDING EXPOSED AREA HAS DRIED SUFFICIENTLY TO PREVENT FURTHER
DAMAGE FROM HEAVY EQUIPMENT.

3. INSPECTION:

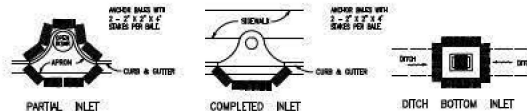
ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AS WELL AS AFTER EACH OF TWO OR MORE OF RAINFALL INSPECTION AND
MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION. BASED ON INSPECTION RESULTS THE CONTROLS SHALL BE REVISED PER THE
INSPECTION REPORTS.

- A. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER,
TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND DAILY RAINFALL RECORDS, WHERE SITES HAVE BEEN
PERMANENTLY STABILIZED. INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT
AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD ACCORD WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.

- B. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION,
RETAIL SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS NEEDED.

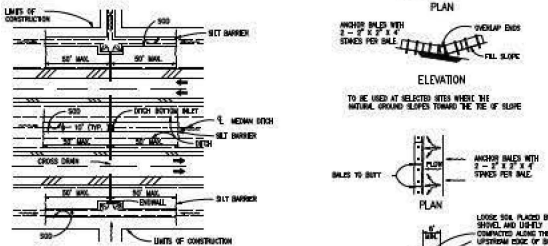
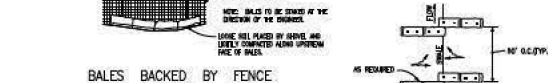
- C. RECORDS OF THE INSPECTION AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY
AVAILABLE FOR INSPECTION.

5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE
AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN ONE ACRE.
THE CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 24 HOUR NOTIFICATION TO THE COUNTY AT 304-686-8621
PRIOR TO COMMENCEMENT OF WORK. ALL REQUIRED ELEMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN MUST BE IN PLACE
PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO COMPLY COULD RESULT IN CODE ENFORCEMENT ACTION AND FINES.

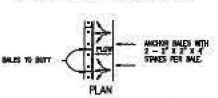
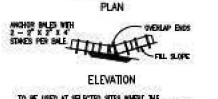


PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

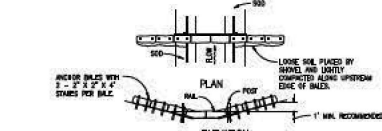
BALES BACKED BY FENCE



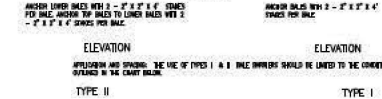
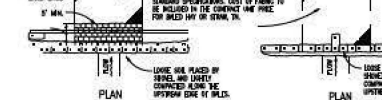
DITCH INSTALLATIONS AT DRAINAGE STRUCTURES



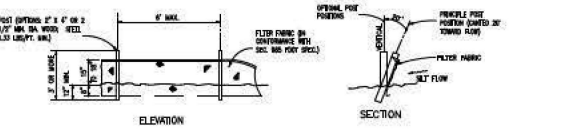
BARRIERS FOR FILL SLOPES



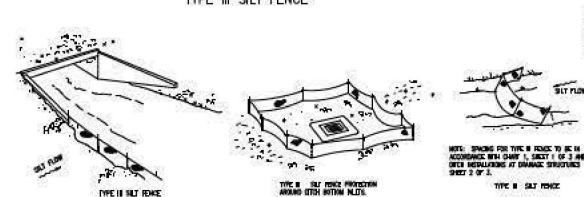
BARRIER FOR PAVED DITCH



BARRIER FOR UNPAVED DITCHES



TYPE III SILT FENCE



SILT FENCE APPLICATIONS

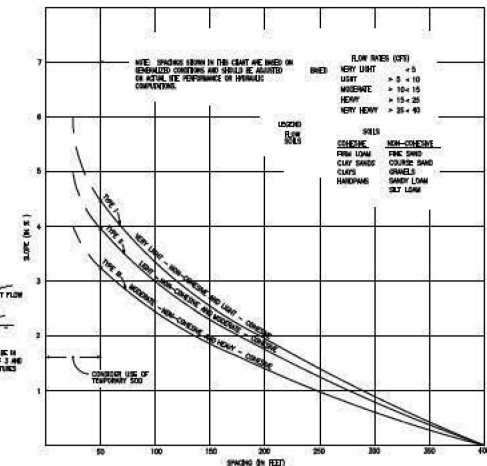


CHART I
RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III SILT FENCES

854 S.E. Baya Drive
Lake City, FL 32055
386.719.3985

BIRD CREEK BOAT RAMP IMPROVEMENTS
BOARD OF COUNTY COMMISSIONERS
LEVY COUNTY
FLORIDA

SCALE

WILLIAM A. MCDONALD, P.E., TASEI
ED 050474

PRELIMINARY NOT FOR CONSTRUCTION

SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: BTW
APPROVED BY: WAM
CHECKED BY: WAM
DATE: JANUARY 2016

GENERAL NOTES
AND EROSION
CONTROL

PROJECT NO.: 05080172

2A

SHEET NO.

**BIRD CREEK BOAT RAMP IMPROVEMENTS
BOARD OF COUNTY COMMISSIONERS
LEVY COUNTY
FLORIDA**

REAL

WILLIAM A. MENADIER, P.E., 74581
FR 6704764

PRELIMINARY NOT FOR CONSTRUCTION

SCALE

[illegible]

NO.	DESCRIPTION	DATE
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DRAWN BY: BTW

APPROVED BY _____

— CHECKED BY WAM

DATE JANUARY 2018

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EROSION CONTROL

DETAIL

DEWE
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PROJECT NO.	5008897
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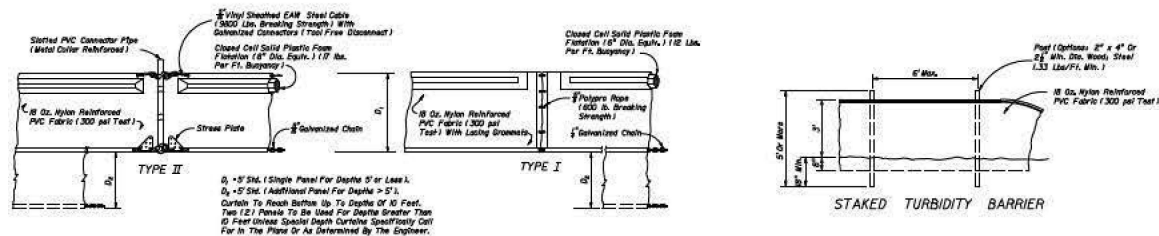
25

28

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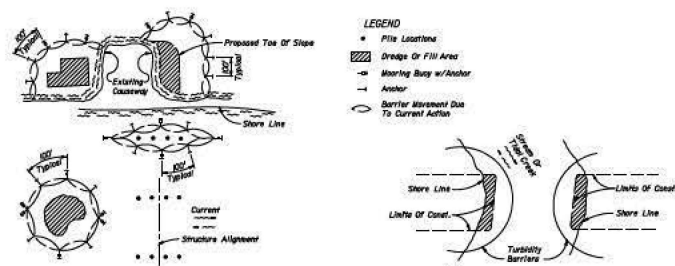
1570242

SHEET NO. _____



NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS



NOTES:

1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
2. Number and spacing of anchors dependent on current velocities.
3. Deployment of barrier around pile locations may vary to accommodate construction operations.
4. Navigation may require segmenting barrier during construction operations.
5. For additional information see Section 104 of the Standard Specifications.

Notes:
Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combination of types and will suit site conditions and will involve central canal water quality requirements. The barrier type(s) will be of the Contractor's option unless otherwise specified in the plans, however payment will be under the pay item(s) established in the plans for Floating Turbidity Barrier and/or Staked Turbidity Barrier. Pile(s) in staked turbidity barriers to be installed in vertical position unless otherwise directed to the Engineer.

TURBIDITY BARRIER APPLICATIONS

GENERAL NOTES

1. Floating turbidity barriers are to be paid for under the contract unit price for Floating Turbidity Barrier, LF.
2. Staked turbidity barriers are to be paid for under the contract unit price for Staked Turbidity Barrier, LF.

**BIRD CREEK BOAT RAMP IMPROVEMENTS
BOARD OF COUNTY COMMISSIONERS
LEVY COUNTY
FLORIDA**

RE

WILLIAM A. MENADIER, P.E. 7458
FR 6708764

PRELIMINARY NOT FOR CONSTRUCTION

SCALE

[illegible]

NO.	DESCRIPTION	DATE
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DRAWN BY: BTW

— CHECKED BY WAM

DATE JANUARY 2018

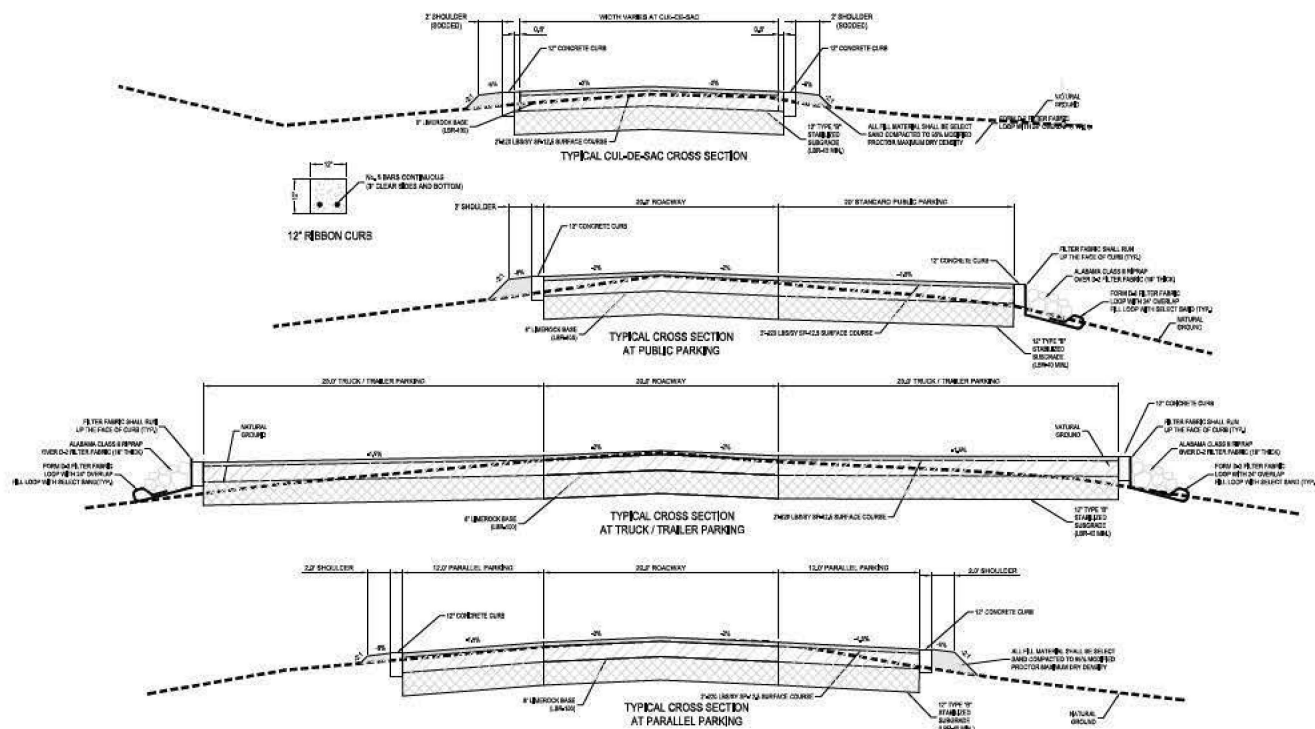
TITLE _____

TYPICAL CROSS
SECTION

PROJECT NO. 5008857

2C

SHEET NO.



Specific Purpose Survey For:
Levy County Board of County Commissioners

Purpose: To locate existing improvements within the right of way of Levy County Road C-60 at the
Srd Creek boat ramp.



**BIRD CREEK BOAT RAMP IMPROVEMENTS
BOARD OF COUNTY COMMISSIONERS
LEVY COUNTY
FLORIDA**

REAL

WILLIAM A. MENADIER, P.E. 7458
EB 0308764

PRELIMINARY NOT FOR CONSTRUCTION

SCALE

REMARKS

[illegible]

NO.	DESCRIPTION	DATE
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DRAWN BY: BTW

CHECKED BY: WAM

DATE JANUARY 2018

EXISTING

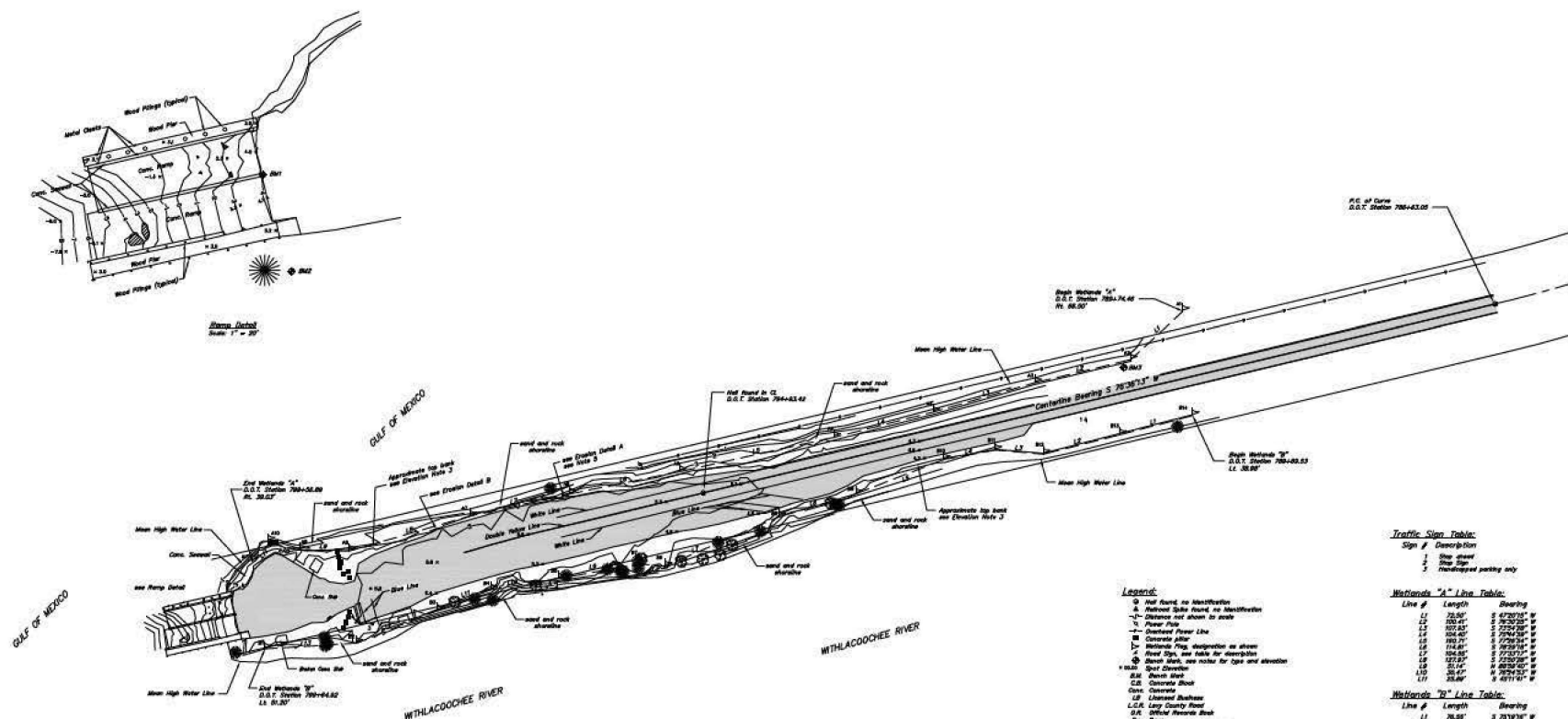
EXISTING CONDITIONS

PROJECT NO. 5608857

C18-155

33

SHEET NO.



Survey Notes

- 1) Not valid without the signature and the original raised seal of a Florida licensed surveyor and mapmaker;
2) Bearings shown hereon are referenced to a "true bearing of S 78°36'33" W along the centerline of Levy County Road 5-00 (Formerly State Road 40);
3) No claims of the public records are done by Daniel M. Croft Land Surveying, Inc. Mobile evidence of easements will be shown hereon, but no certification is given that easements, deed covenants, underground improvements, or apparent use does not exist;
4) There may be additional restrictions that are not shown on this survey that may be found in the public records of Levy County, Florida.

THE SURVEY DEPICTED HEREON IS NOT COVERED BY PROFESSIONAL LIABILITY INSURANCE

Daniel M. Croft Land Surveying Inc.
146 Masonic Street; P.O. Box 461
Bronson, Florida 32621 (352) 486-2055

FILED DATE	Sep 17, 2018		
FILED DATE	Oct 21, 2018		
FILED DATE	Nov 19, 2018	28 Jan 19	Add More High Water Line

Elevation Notes:

- 1) Endemicity shown here are NASD 1988 data.
- 2) Marsh snaps are recovered for this project, being further classified as Saline
Marsh alt : 827 250 ft, being a dist set in the top of a clay pan located in the center dieling well of the boat road. The marsh has an elevation of 6.59 feet, above the mean sea level. NASD 1988
Marsh alt : 820 250 ft, being a coarse medium probably 1/4 mi east of the reagent ground. The marsh has an elevation of 4.40 feet, above the mean sea level. NASD 1988
Marsh alt : 820 250 ft, being a coarse medium probably 1/4 mi east of the reagent ground. The marsh has an elevation of 4.40 feet, above the mean sea level. NASD 1988
- 3) The approximate top of shore ditch area is not intended to represent the mean high water line or any other particular boundary.
- 4) The mean high water line shown here is based on an elevation of 1.57 feet, NASD 1988 data, per the Florida Department of Environmental Protection, File St880 827 -241.

Traffic Sign Table:

Sign #	Description
1	Stop ahead
2	Stop Sign
3	Handicapped parking only

National's "A" Line

Line #	Length	Bearing
L1	72.55'	S 47°20'15"
L2	100.41'	S 76°30'25"
L3	107.83'	S 73°24'28"
L4	104.40'	S 70°44'58"
L5	180.71'	S 77°26'34"
L6	114.81'	S 78°29'18"
L7	104.55'	S 77°33'71"
L8	127.87'	S 73°50'28"
L9	51.14'	N 80°28'40"
L10	36.47'	N 76°24'53"

Wattson's "B" Line Table

Line #	Length	Bearing
1.1	70.55'	S 75.19° E
1.2	80.36'	S 70° E
1.3	48.57'	N 65° 20' E
1.4	52.15'	S 79° 42' E
1.5	80.55'	S 68° 30' E
1.6	81.70'	S 72° 42' E
1.7	156.89'	N 68° 52' E
1.8	205.14'	N 64° 05' E
1.9	63.59'	S 79° 30' E
1.10	70.15'	S 69° 40' E
1.11	85.17'	S 65° 10' E
1.12	68.06'	N 103° 13' E
1.13	83.89'	N 60° 23' E

Certification:

I hereby certify that this is a true and correct representation of a survey made under my responsible direction and supervision that meets the standards of practice set forth by the Board of Professional Surveyors and Mappers in Chapter 34-17-6, Florida Administrative Code, pursuant to Sections 402.022, Florida Statutes.

© Daniel M. Croft, P.L.S. 2001
for Daniel M. Croft Land Surveying, Inc.

C18-155

BIRD CREEK BOAT RAMP IMPROVEMENTS
BOARD OF COUNTY COMMISSIONERS
LEVY COUNTY
FLORIDA

REAL

WILLIAM A. MENADER, P.E. 74581
FR 0208764

PRELIMINARY NOT FOR CONSTRUCTION

SCALE



REVISIONS

[illegible]

NO.	DESCRIPTION	DATE
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DRAWN BY: BTW

CHECKED BY: WAM

DATE: JANUARY 2018

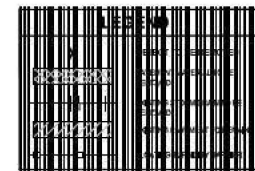
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DEMOLITION AND EROSION CONTROL

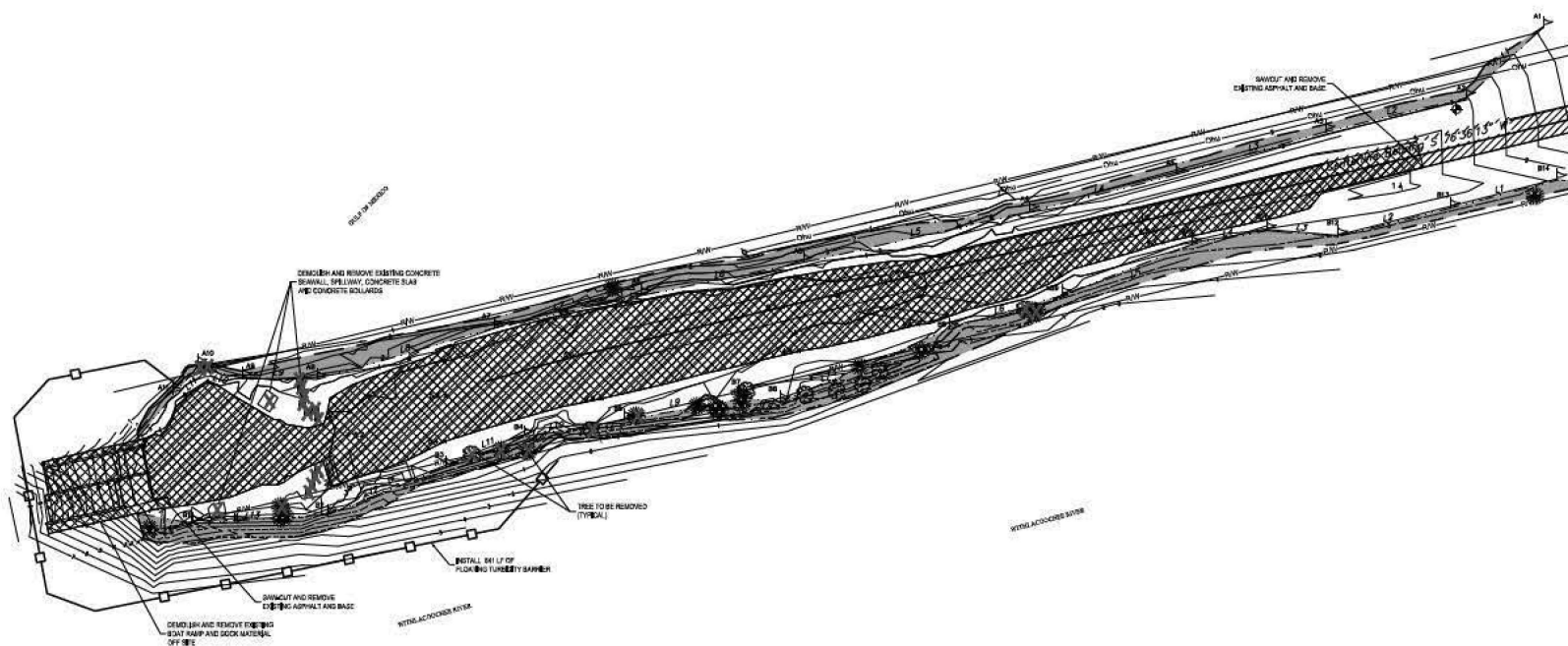
PROJECT NO.	50068572
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△

SHEET NO.



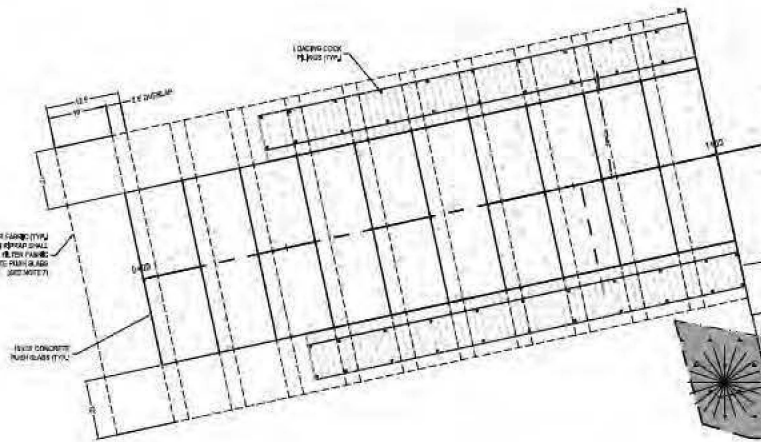
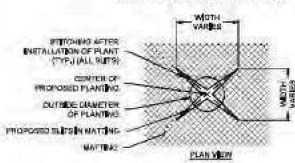
- DEMOLITION AND ERECTION CONTINGENTS:**
1. **EXISTING PILECAPS, UNDERPILING:**
 2. CONTRACTOR SHALL DEMOLISH AND REMOVE EXISTING CONCRETE ROAT RAMP. CONCRETE SHALL BE STOCKPILED FOR USE AS **WALKWAY**. ALL OTHER ROAT RAMP AND DOCK MATERIAL SHALL BE DISPOSED OFFSITE. **BEACH MARK 1** CONCRETE PIERCESTALL SHALL REMAIN UNDESTRUCTED. CONTRACTOR SHALL PROTECT PIERCESTALL THROUGHOUT THE DURATION OF CONSTRUCTION. ELEVATION SHALL BE VERIFIED UPON COMPLETION OF CONSTRUCTION.
 3. CONTRACTOR SHALL PROVIDE DOUBLE **5/8" F77** (NOT SHOWN FOR CLARITY) ALONG THE WETLAND BOUNDARY SHOWN.

[illegible]

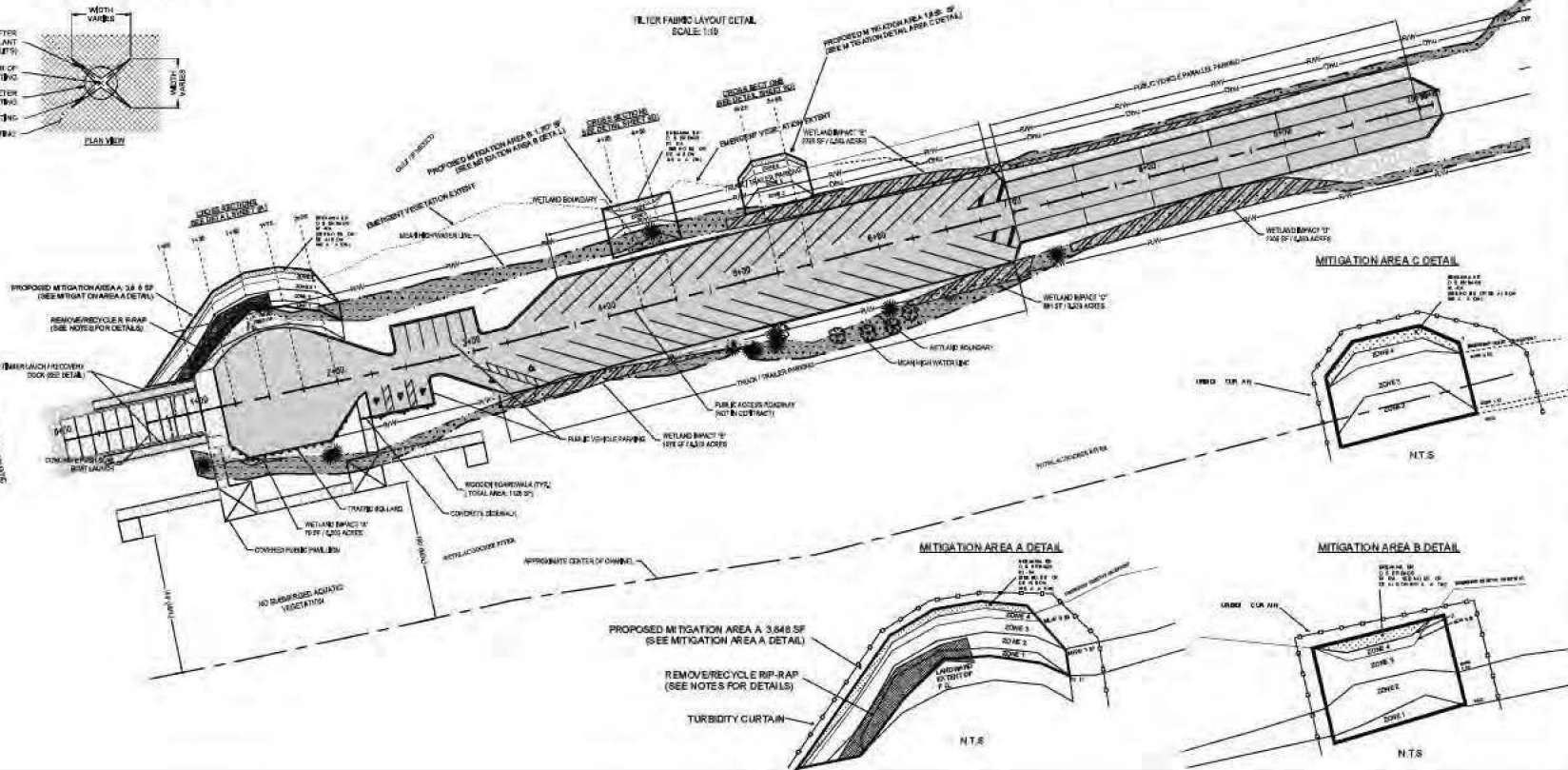


1. DEMOLISH AND REMOVE EXISTING SOFT RAMP, LOADING DOCKS, AND ASPHALT PAVEMENT AND OTHER IMPROVEMENTS AS SHOWN ON SHEET 4.
2. EXISTING EXTERIOR CONCRETE WALKWAYS.
3. BACK FILL WITH NEW STONE TO FRESH CONCRETE ELEVATIONS. CONTRACTOR SHALL MAKE SURE THE SURFACE IS SUFFICIENTLY FIRM TO INSTALL THE NEW PAVING.
4. CONTRACTOR, ENGINEER AND INSPECTOR SHALL FIELD VERIFY THE EXISTING GRADES FOR INITIAL LAYOUT OF THE NEW PAVING.
5. NEW 12" POLYMER FIBER AS SHOWN IN THE FILTER PAVING LAYOUT DETAIL IS HEREON.
6. INSTALL CONCRETE PAVEMENT SLABS.
7. INSTALL ALUMINUM CLAS B RAMP AS NOTED.
8. FRAME / DRAINING DITCHES.

1. CUT SLITS IN MATTING TO CREATE AN OPENING.
2. REMOVE SOIL, PLACE PLANT, REPLACE SOIL.
3. FOLD OUT MATTING BACK IN PLACE AND STITCH BACK TOGETHER WITH MODGRASS® IF SITTING.

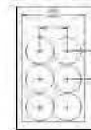


SCALE 1:10



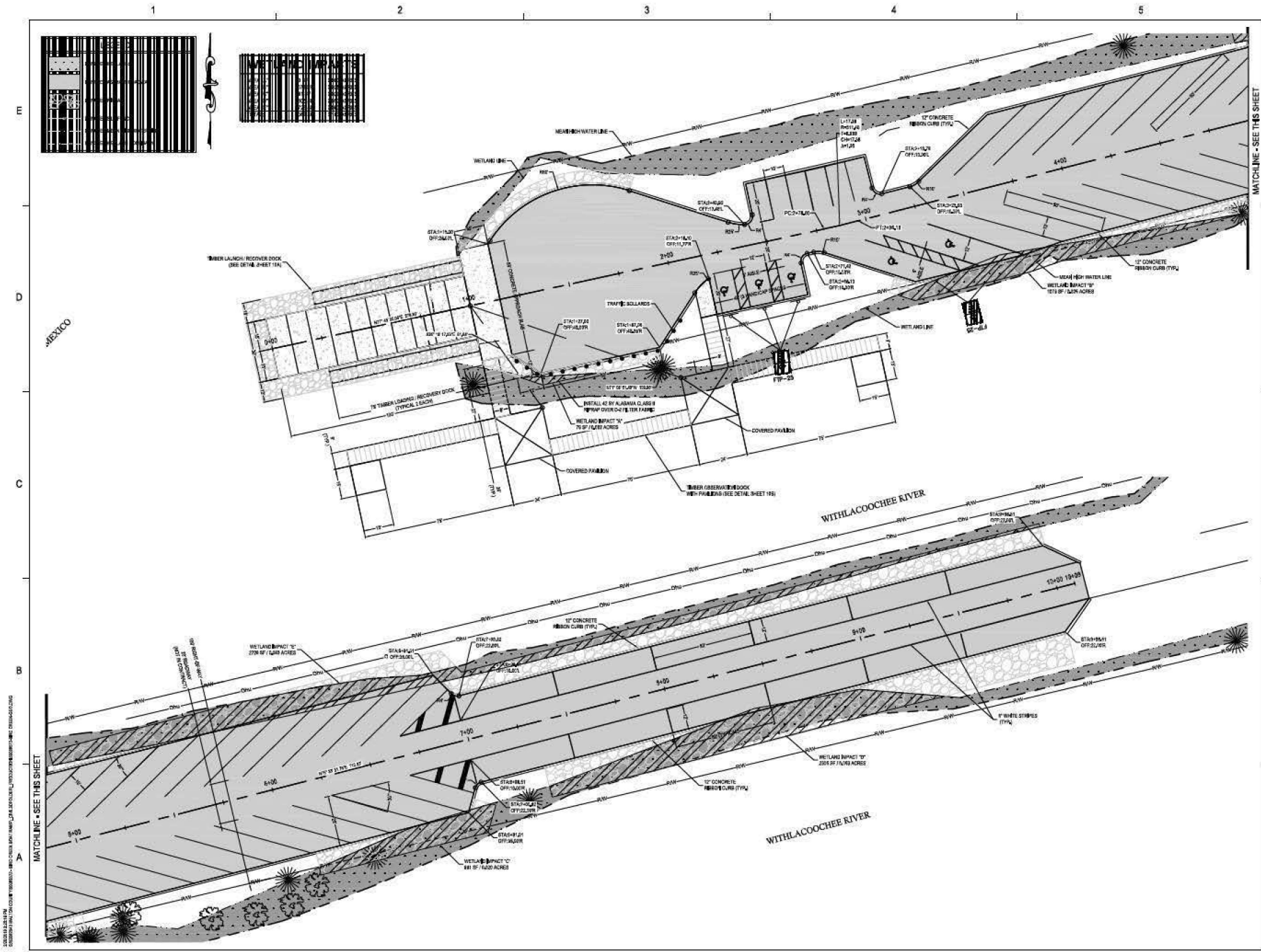
Planting Holes		
Size	Plant Species	Common Name
1	Shrubby plants suitable for formal hedges	Boxwood, Yew, privet
2	Shrubby plants	Bayonet
3	Large ornamental shrubs	Camellia, rose
4	Shrubby plants	Salmonberry, dogwood
5	Large ornamental shrubs	Birds' nest
6	Shrubby plants	Salmonberry, bayonet
7	Shrubby plants	Clash, holly, rose
8	Shrubby plants	Clash, holly, rose

MIGRATION/LOCAL AREA



**BIRD CREEK BOAT RAMP IMPROVEMENTS
BOARD OF COUNTY COMMISSIONERS
LEVY COUNTY
FLORIDA**

SHEET NO.



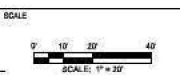
854 S.E. Baya Drive
Lake City, FL 32055
386.719.9885

BIRD CREEK BOAT RAMP IMPROVEMENTS
BOARD OF COUNTY COMMISSIONERS
LEVY COUNTY
FLORIDA

REAL

VILLAVIA, MONTEZ, P.E. 74881
BB 050878

PRELIMINARY NOT FOR CONSTRUCTION



NO.	DESCRIPTION	DATE

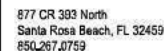
DRAWN BY: STW
APPROVED BY: WM
CHECKED BY: WM
DATE: JANUARY 2016

SITE GEOMETRY PLAN

PROJECT NO. 201508172



A



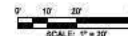
**BIRD CREEK BOAT RAMP IMPROVEMENTS
BOARD OF COUNTY COMMISSIONERS
LEWY COUNTY
FLORIDA**

RESEARCH

WILLIAM A. MENADER, P.E. 7458
FR 000764

PRELIMINARY NOT FOR CONSTRUCTION

SCALE



REVISIONS

[illegible]

NO.	DESCRIPTION	DATE
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DRAWN BY	BTW
APPROVED BY	WAM
CHECKED BY	WAM
DATE	JANUARY 2018

TITLE

PAVING AND DRAINAGE

PROJECT NO. 5606857

1

SHEET NO.

**BIRD CREEK BOAT RAMP IMPROVEMENTS
BOARD OF COUNTY COMMISSIONERS
LEVY COUNTY
FLORIDA**

SEAL

WILLIAM A. MENADER, P.E. 74581
FR 0308794

PRELIMINARY NOT FOR CONSTRUCTION

SCALE.



REVERSING

[illegible]

NO.	DESCRIPTION	DATE
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DRAWN BY: BTY

APPROVED BY _____ DATE _____

1000

— CHECKED BY _____

TITLE _____

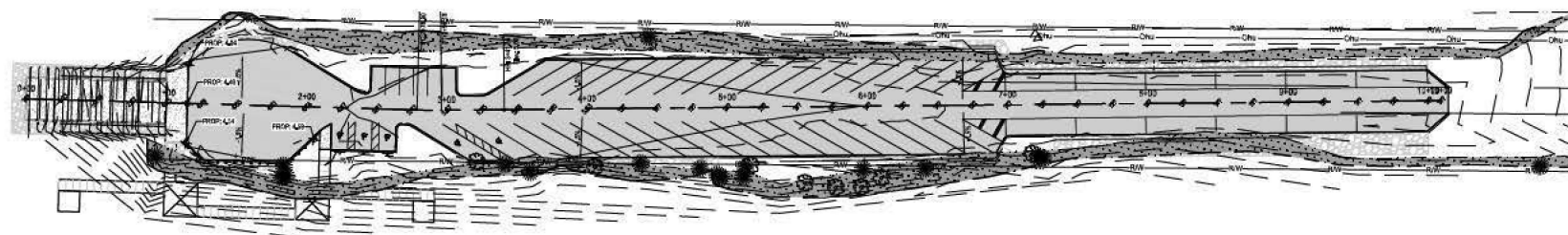
PLAN AND PROFILE

PROJECT NO. 5066

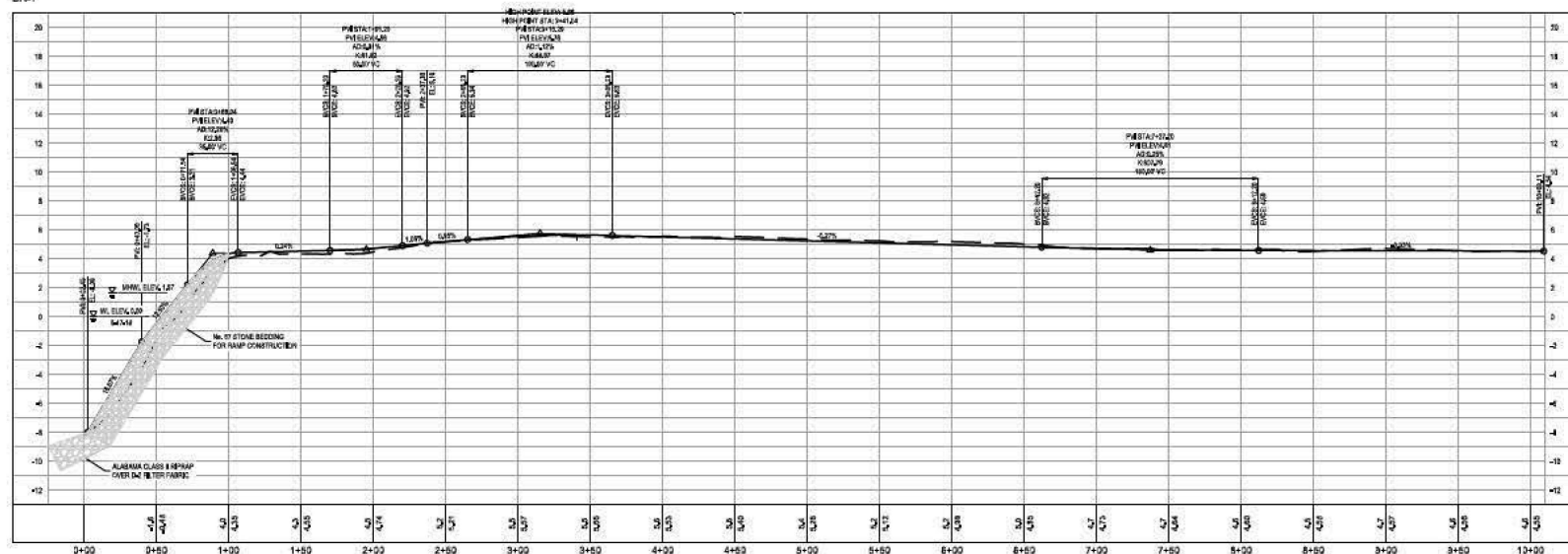
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SCALE:
1"=40' HOR
1"=4' VERT

SHEET NO.



88.1



07-08-2019 11:00 AM

BIRD CREEK BOAT RAMP IMPROVEMENTS
BOARD OF COUNTY COMMISSIONERS
LEVY COUNTY
FLORIDA

BSCL

YULIANA, MONICA P.E., 1481
CS 20074

PRELIMINARY NOT FOR CONSTRUCTION

SCALE:



NO.	DESCRIPTION	DATE

REV. DESCRIPTION DATE

DRAWN BY: BTH
APPROVED BY: RMM
CHECKED BY: RMM
DATE: JANUARY 2016

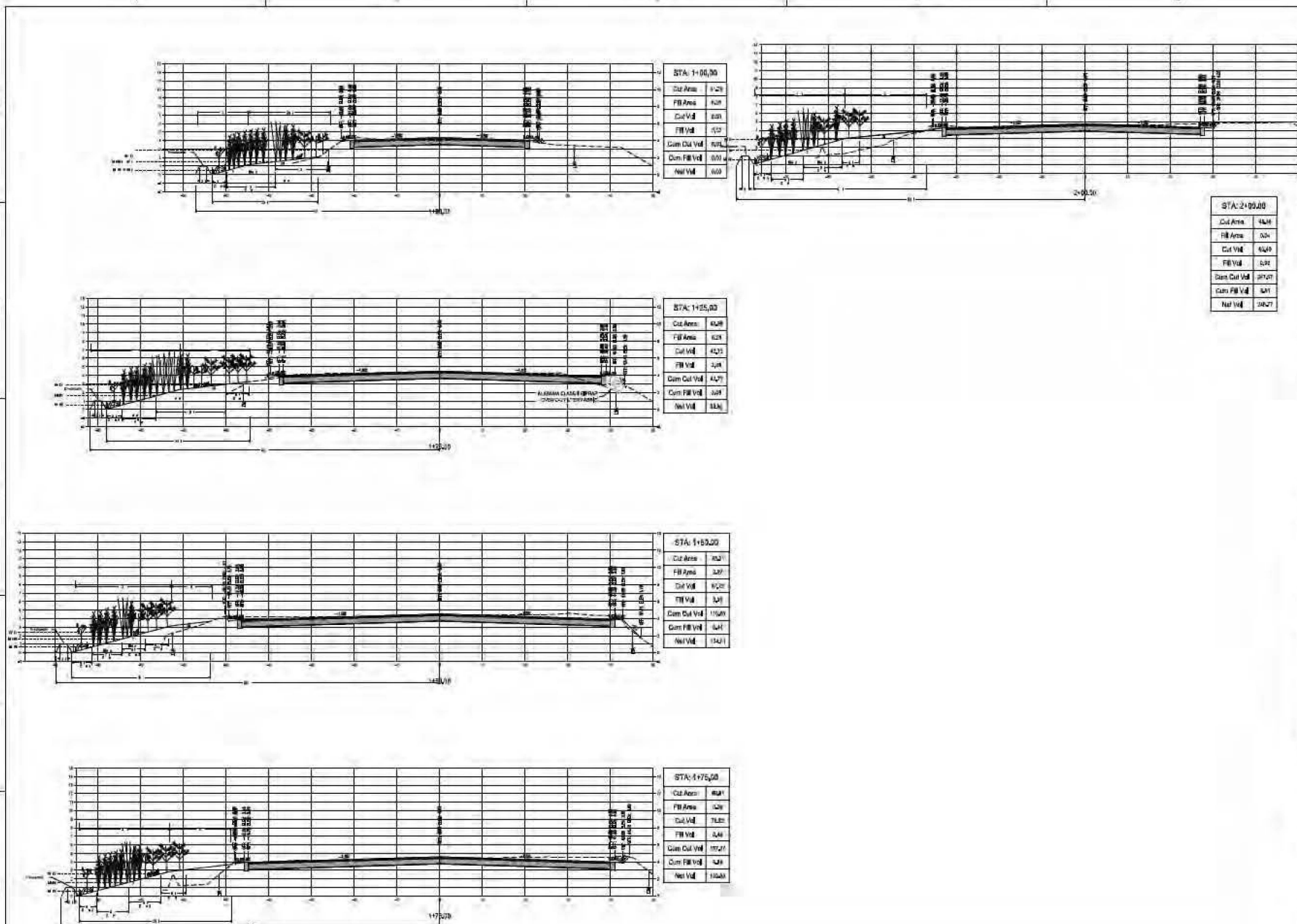
TITLE

CROSS SECTIONS

PROJECT NO.: 2009117

9A

SHEET NO.



SECTION 9C CROSS SECTION
DRAWN BY: J. W. WILSON
CHECKED BY: J. W. WILSON
DATE: JANUARY 2018

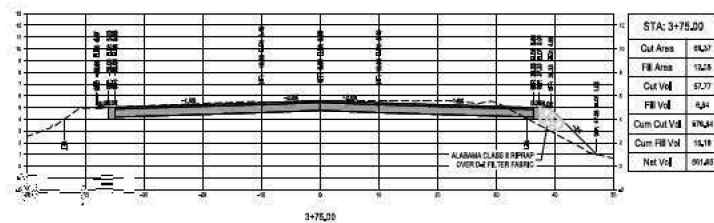
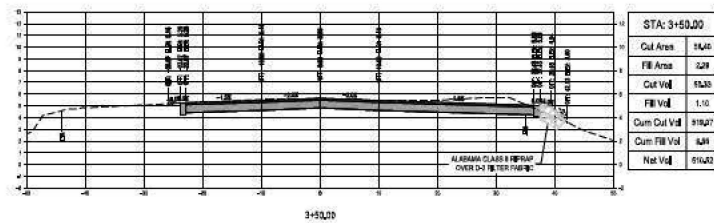
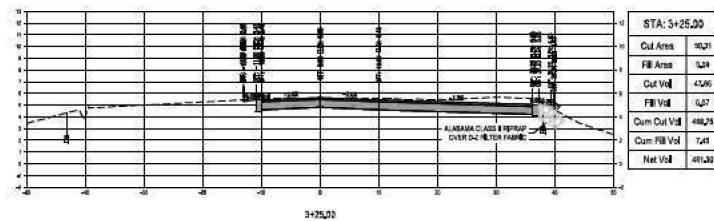
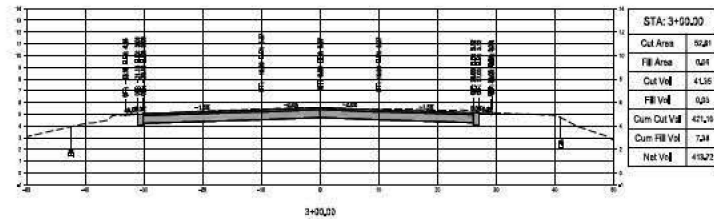
E

D

C

B

A



654 S.E. Baya Drive
Lake City, FL 32055
386.719.9985

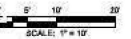
BIRD CREEK BOAT RAMP IMPROVEMENTS
BOARD OF COUNTY COMMISSIONERS
LEVY COUNTY
FLORIDA

REAL

VILLAVIA, MONTEZ, P.E. 74881
ES 010874

PRELIMINARY NOT FOR CONSTRUCTION

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: JWW
APPROVED BY: JWW
CHECKED BY: JWW
DATE: JANUARY 2018

TITLE
CROSS SECTIONS

PROJECT NO.: 10088172

9C

SHEET NO.

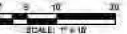
BIRD CREEK BOAT RAMP IMPROVEMENTS
BOARD OF COUNTY COMMISSIONERS
LEVY COUNTY
FLORIDA

SCALE

VALUWA, HONORER, FL, 1/18/18
B.000000

PRELIMINARY NOT FOR CONSTRUCTION

SCALE



NO. DATE

NO. DATE

DESIGNED BY	
CHECKED BY	
DATE	JANUARY 2018

TITLE

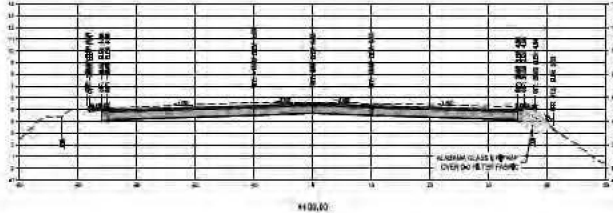
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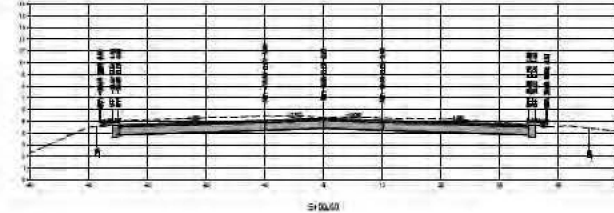
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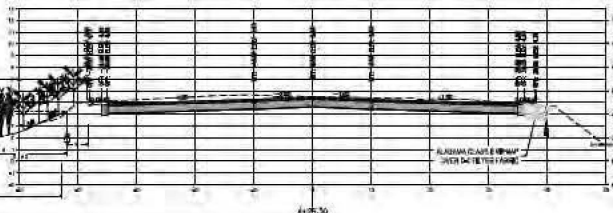
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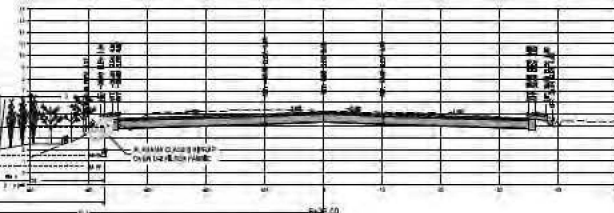
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Cut Vol	15.00
Fill Vol	0.00
Cum Cut Vol	15.00
Cum Fill Vol	0.00
Net Vol	15.00



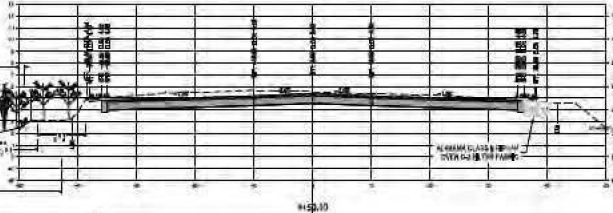
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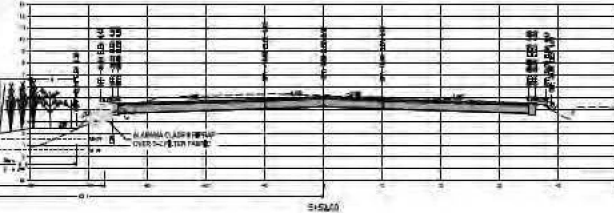
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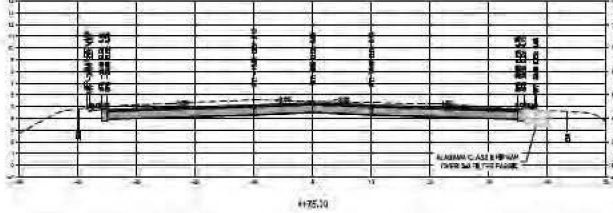
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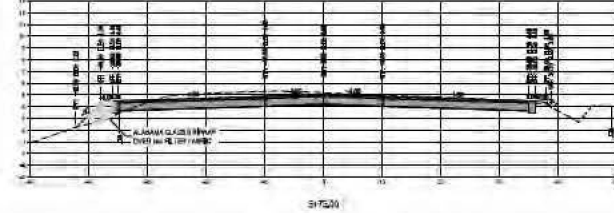
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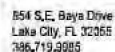
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Cut Vol	96.88
Fill Vol	0.00
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Net Vol	177.41



STA: 4+75.00	
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Fill Area	0.00
Cut Vol	0.00
Fill Vol	0.00
Cum Cut Vol	0.00
Cum Fill Vol	0.00
Net Vol	0.00



STAC 5+75.00	
Cut Area	15.00
Fill Area	0.00
Cut Vol	15.00
Fill Vol	0.00
Cum Cut Vol	15.00
Cum Fill Vol	0.00
Net Vol	15.00



**BIRD CREEK BOAT RAMP IMPROVEMENTS
BOARD OF COUNTY COMMISSIONERS
LEVY COUNTY
FLORIDA**

1954

WILLIAM WENNER, P.E., V.P.
FRUITA

PRELIMINARY NOT FOR CONSTRUCTION

COPYRIGHT



11月11日

[illegible]

AGE	CONCENTRATION	SALT
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[illegible]

APPROVED BY: _____ W.S.B.

— INDEXED BY WPA

DATE: JANUARY 2019

FILE

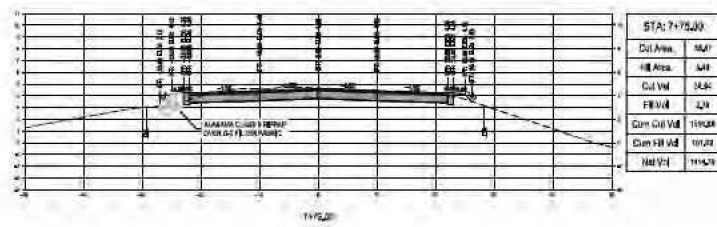
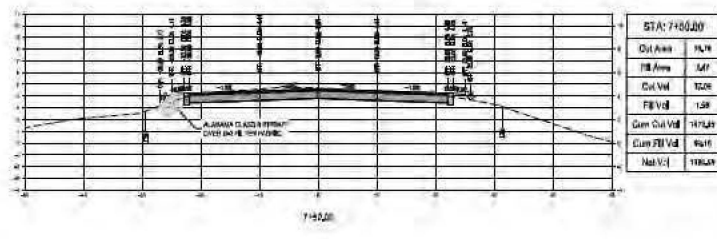
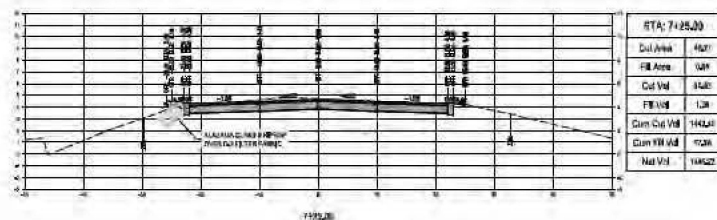
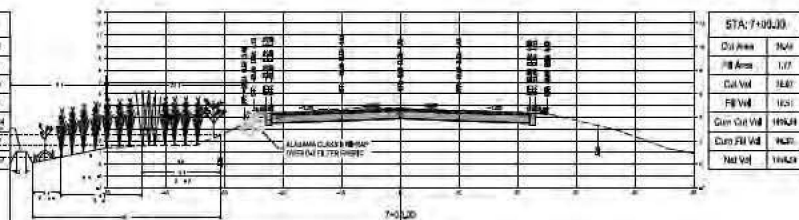
CROSS SECTIONS

CROSS SECTIONS

PROJ (ECT ME) 250000

9E

UNITED STATES



**BIRD CREEK BOAT RAMP IMPROVEMENTS
BOARD OF COUNTY COMMISSIONERS
LEVY COUNTY
FLORIDA**

SEAL

WILLIAM A. MENADIER, P.E. 74581
 EG 070874

PRELIMINARY NOT FOR CONSTRUCTION

RCM



REMARKS

[illegible]

NO.	DESCRIPTION	DAT
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DRAWN BY _____ **BY** _____

APPROVED BY _____ WMA

— CHECKED BY _____ WWA

DATE: JANUARY 2011

TITLE

CROSS SECTIONS

1000

PROJECT NO. 50488

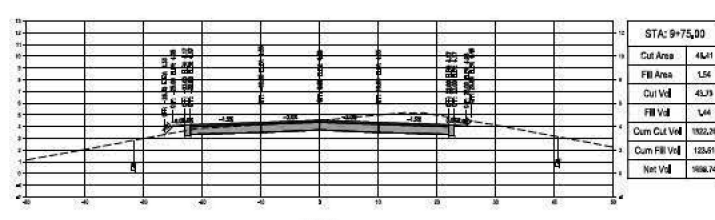
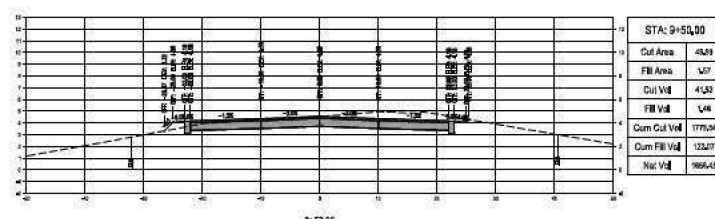
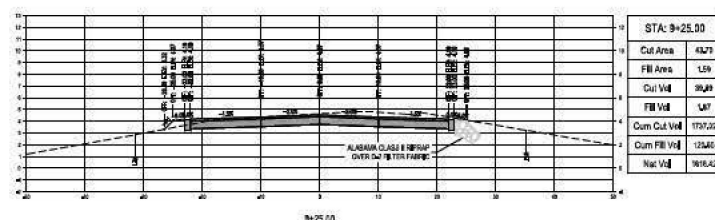
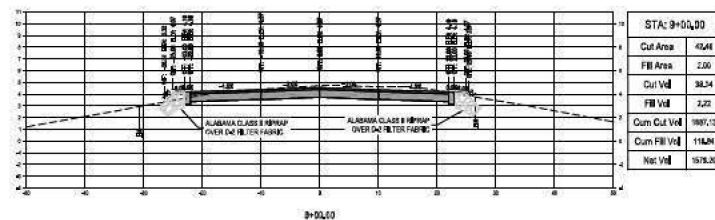
15

9F

5

Source: U.S. Census Bureau, *Marriage, Divorce, Remarriage in the 1990s*, 1995.

SHEET NO. _____



**BIRD CREEK BOAT RAMP IMPROVEMENTS
BOARD OF COUNTY COMMISSIONERS
LEWY COUNTY
FLORIDA**

WILLIAM A. MENADIER, P.E. 74581
EB 0208794

PRELIMINARY NOT FOR CONSTRUCTION

SCALE: 1" = 5'

[illegible]

DRAWN BY _____ DATE _____
 APPROVED BY _____ NAME _____
 CHECKED BY _____ NAME _____
 DATE _____ JANUARY 2018

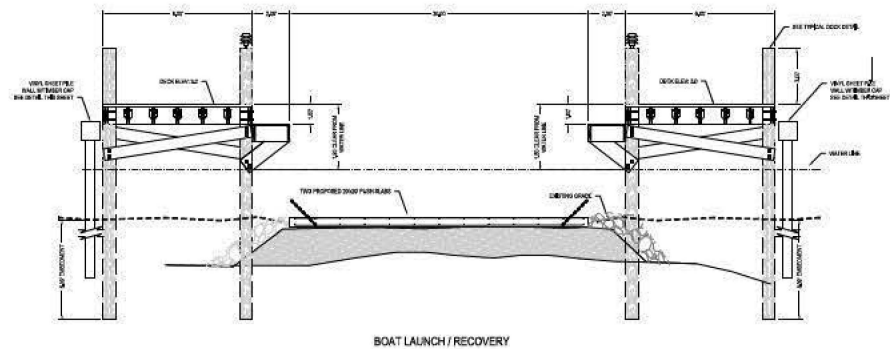
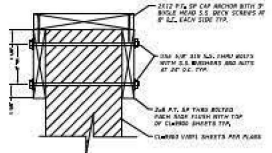
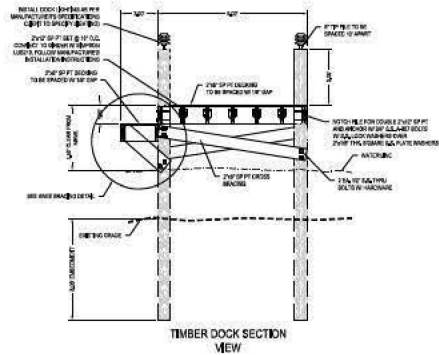
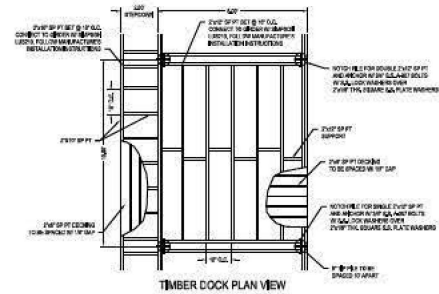
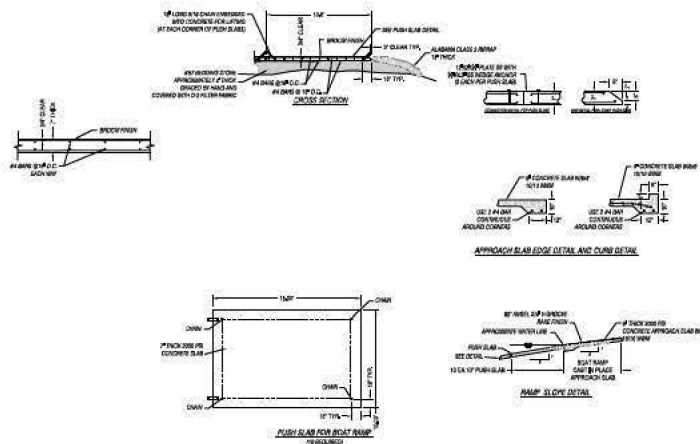
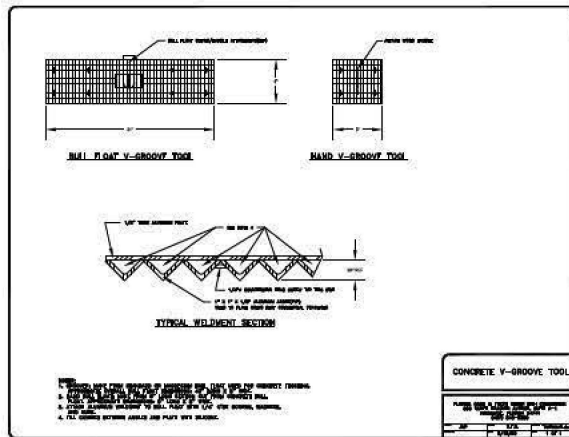
TITLE _____

BOAT RAMP AND DOCK DETAILS

PROJECT NEL	50088572
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10A

SHEET NO.



BOAT LAUNCH / RECOVERY

