BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA
ENGINEERING AND CONSTRUCTION

PLANS PROPOSED FOR

FLORIDIAN DITCH RESTORATION PHASE II (SARASOTA PROJECT)

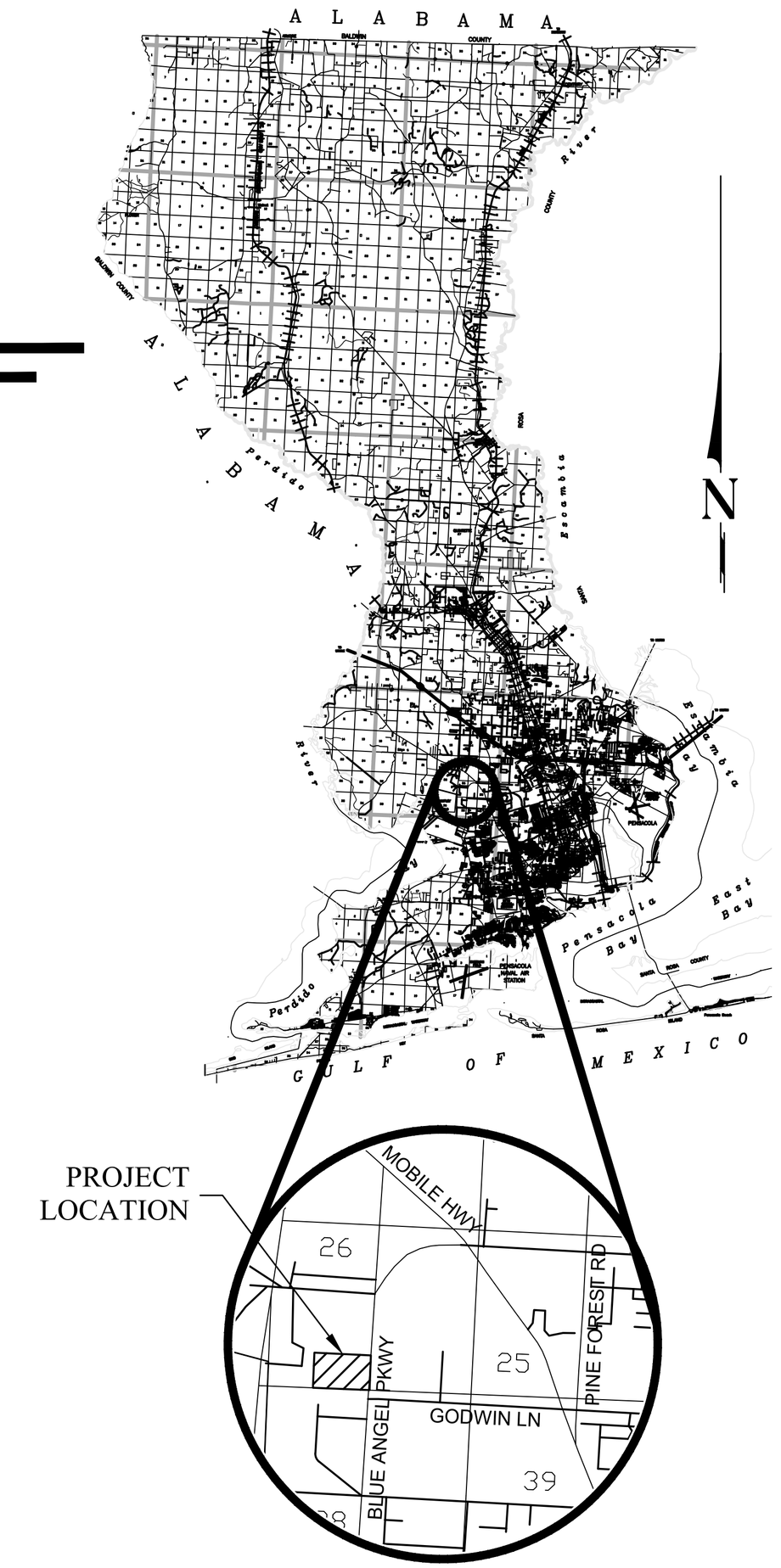
DRAINAGE IMPROVEMENTS

SUMMARY OF DRAINAGE STRUCTURES

EXISTING SITE, DEMOLITION & EROSION CONTROL PLAN

DRAINAGE STRUCTURE S-8 DETAILS

100% REVIEW PLANS
NOT FOR CONSTRUCTION
NOVEMBER 2020



VICINITY MAP

CONSULTANT PROJECT NO.

MOTT MACDONALD

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE LATEST ESCAMBIA COUNTY

ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICAPABLE TO ANY SPECIFICATION REFERED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL

COMMISSIONERS

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DISTRICT FOUR	ROBERT BENDER (VICE CHAIRMAN)
DISTRICT FIVE	STEVEN BARRY (CHAIRMAN)

PROJECT MANAGER: KEVIN MORGAN	
SECTION / TOWNSHIP / RANGE: XX / XS / XXW	DISTRICT: 1
PROJECT ENGINEER: KEVIN MORGAN	REG FLA ENG NO: 71350
SIGNATURE:	DATE:

P:\502100479 - esc floridian ii gully\Drawings\Civil\cad drawings\Sheets\Plan Set\C-001 Cover Sheet.dwg, Nov 16, 2020 - 3:30:19PM, RIL36256

THE CONTRACTORS SHALL NOTIFY THE COUNTY DESIGN ENGINEER OR DESIGNEE 48

ALL CONDITIONS AND STIPULATIONS OF THE CONSTRUCTION PERMITS AND THE APPROVALS ISSUED BY THE ESCAMBIA COUNTY ENGINEER SHALL BE COMPLIED WITH IN

ALL ROADS DAMAGED BY CONSTRUCTION OPERATIONS ARE TO BE PATCHED OR RECONSTRUCTED AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.

THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO PREVENT EROSION AND ANY OFF SITE SEDIMENT TRANSPORT RESULTING FROM INCREASED RUNOFF DURING CONSTRUCTION BY PROVIDING SILT FENCE AND/OR STAKED HAY BALES AS REQUIRED BY FDOT INDEX 102, THE FLORIDA STORMWATER, EROSION, AND SEDIMENT CONTROL INSPECTOR'S MANUAL, 2000 EDITION, OR AS INDICATED ON THE PLANS. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ASSOCIATED DISTURBED AREAS ARE STABILIZED AS TO REDUCE SEDIMENT RUNOFF, UNLESS OTHERWISE DIRECTED BY THE

ANY NECESSARY PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ESCAMBIA COUNTY OR ITS DESIGNEE WILL ASSIST CONTRACTOR WITH REQUIRED PERMITS.

THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PRESERVE OR RELOCATE ALL BENCHMARKS (VERTICAL CONTROL) AS NEEDED DURING CONSTRUCTION. ALL PUBLIC OR PRIVATE CORNER MONUMENTATION SHALL BE PROTECTED. IF A PUBLIC OR PRIVATE CORNER MONUMENTATION IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR DESIGNEE IMMEDIATELY. ANY ESCAMBIA COUNTY HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS ARE DISTURBED OR DESTROYED THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF THE MONUMENTS AND HAVE THE MONUMENTS POSITION DETERMINED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER USING GUIDELINES AS ESTABLISHED BY NATIONAL GEODETIC SURVEY FOR

EXISTING DRAINAGE FEATURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS

THE CONTRACTOR SHALL MATCH EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.

EXISTING STREETS AND DRIVES SHALL BE MAINTAINED TO LOCAL TRAFFIC AND PROPERTY

ALL ROADWAY CONSTRUCTION SHALL COMPLY WITH THE ESCAMBIA COUNTY TECHNICAL

ALL MATERIALS, TESTING AND CONSTRUCTION METHODS SHALL CONFORM TO THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.

ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERRED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY

EXISTING STREET AND ROAD NAME SIGNS ON THE PROJECT SHALL BE KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLES. ALL OTHER EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE TAKEN DOWN AND STOCKPILED WITHIN THE R/W LIMITS BY THE CONTRACTOR AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE. ANY EXISTING SIGNS THAT ARE TO BE RELOCATED AND ARE DAMAGED BEYOND USE BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR

THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE 10' OPEN LANE AT ALL TIMES. NO OPEN EXCAVATION SHALL REMAIN OVER NIGHT. CONTRACTOR SHALL RESTORE ROAD TO TWO

CONTRACTOR SHALL COMPLY WITH ALL F.D.E.P. AND ARMY CORP. OF ENGINEERS

ONLY ACCESS TO THE ROAD R/W AS SHOWN IS GUARANTEED BY THE COUNTY. PRIVATE R/W REQUIRED BY THE CONTRACTOR TO FACILITATE CONSTRUCTION SHALL BE ACQUIRED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION OR ASSISTANCE FROM THE

IN THE EVENT THAT SURVEY MONUMENTATION OR REFERENCE POINTS ARE MISSING OR

VEGETATION ON R/W AND EASEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS. COST OF SAID RESTORATION SHALL BE

GRADED AGGREGATE BASE SHALL BE REQUIRED WHERE THE SEASONAL HIGH GROUND WATER ENCROACHES WITHIN TWO (2) FEET OF THE BOTTOM OF BASE.

ALL TREES WITHIN LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE

ALL COMPACTED FILL SHALL BE PLACED IN 4" LIFTS FOR HAND POWERED TAMPERS AND 8" LIFTS FOR HEAVY EQUIPMENT OPERATED TAMPERS.

23. MAINTENANCE OF TRAFFIC AS PER FDOT INDEX 600.

24. ALL SPEED BUMPS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED TO THE LATEST ESCAMBIA COUNTY DESIGN SPECIFICATIONS. ALL COSTS FOR REPLACEMENT OF SAID SPEED BUMPS SHALL BE INCIDENTAL TO OTHER ITEMS AND NO ADDITIONAL COMPENSATION SHALL BE CONSIDERED.

25. ALL EXISTING MAILBOXES INTERFERING WITH NEW CONSTRUCTION SHALL BE RELOCATED OR REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH POSTAL REQUIREMENTS AND IN ACCORDANCE WITH ESCAMBIA COUNTY TECHNICAL SPECIFICATION, FDOT DESIGN STANDARDS AND UNITED POSTAL REQUIREMENTS. ALL EXISTING BRICK MAILBOXES WITHIN LIMITS OF CONSTRUCTION OR COUNTY RIGHT OF WAY SHALL BE REMOVED AND PLACED ON THE PROPERTY LINE OF THE OWNER. CONTRACTOR SHALL REPLACE EXISTING BRICK MAILBOX WITH APPROVED PLASTIC BREAK AWAY MAILBOX.

26. THE CONTRACTOR SHALL, AT A MINIMUM, MATCH EXISTING SIGNING AND PAVEMENT MARKINGS. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE LATEST FDOT DESIGN STANDARDS. THE CONTRACTOR SHALL CONTACT THE COUNTY TRAFFIC DEPARTMENT PRIOR TO INSTALLATION OF ANY SIGNING AND PAVEMENT MARKINGS.

27. WHERE UNSUITABLE MATERIAL, AS DEFINED BY THE COUNTY SPECIFICATIONS SECTION 02300, 1.3(I), IS ENCOUNTERED IN THE AREAS PROPOSED FOR PAVING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY ENGINEER OR DESIGNEE PRIOR TO ANY EXCAVATION.

28. PIPE LENGTHS SHOWN IN THE PLANS DO NOT INCLUDE THE LENGTH OF PIPE THAT MUST BE INSTALLED WITH THE MITERED END SECTION. THEREFORE, ALL PIPES LENGTHS ASSOCIATED WITH MITERED END SECTIONS SHALL BE PAID FOR IN THE UNIT COST OF THE MITERED END SECTION.

29. IF ARCHAEOLOGICAL MATERIAL/PREHISTORIC ARTIFACTS SUCH AS POTTERY OR CERAMICS, STONE TOOLS OR METAL IMPLEMENTS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH NATIVE AMERICAN CULTURES, OR EARLY COLONIAL OR AMERICAN SETTLEMENT ARE ENCOUNTERED AT ANY TIME, THE PROJECT SHOULD CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE IMMEDIATE VICINITY OF SUCH DISCOVERIES. THE APPLICANT/RECIPIENT, OR OTHER DESIGNEE, SHOULD CONTACT THE FLORIDA DEPARTMENT OF STATE, DIVISION OF HISTORICAL RESOURCES, THE STATE HISTORIC PRESERVATION OFFICER (SHPO) AND THE DSH/FEMA REGION IV ENVIRONMENTAL OFFICER AND FDEM STATE ENVIRONMENTAL LIAISON OFFICER FOR FURTHER GUIDANCE. PROJECT ACTIVITIES SHOULD NOT RESUME WITHOUT VERBAL AND/OR WRITTEN AUTHORIZATION FROM THE DIVISION OF HISTORICAL RESOURCES.

30. IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK MUST STOP IMMEDIATELY AND THE PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH F.S. 872.05.

UTILITY NOTES:

1. THE LOCATION SHOWN FOR EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR AGREES TO BE COMPLETELY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT OCCUR BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES.

2. UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION SO THAT THE UTILITY OWNER CAN SPOT VERIFY AND/OR EXPOSE THEIR UTILITIES. KNOWN UTILITIES OWNERS INCLUDE:

SEWER/WATER - EMERALD COAST UTILITY AUTHORITY
MR. MIKE HAMLIN
P.O. BOX 15311
PENSACOLA, FL. 32514 PH: (850) 969-3310
429-2446

ELECTRIC - GULF POWER
MR. CHAD SWAILS
5120 DOGWOOD DRIVE
MILTON, FL. 32570 PH: (850)

NATURAL GAS - ENERGY SERVICES OF PENSACOLA
MR. SHAWN HARRIS
1625 ATWOOD DRIVE
PENSACOLA, FL. 32514 PH: (850) 474-5310
PH: (850) 857-4564

CABLE - COX CABLE
MR. TROY YOUNG
2421 EXECUTIVE PLAZA
PENSACOLA, FL. 32504 PH:

TELEPHONE - AT&T FLORIDA
ROB ST. PIERRE
605 W. GARDEN ST.
PENSACOLA, FL 32502
PH: (850) 436-1701

SUNSHINE STATE ONE-CALL
11 PLANTATION RD.
DEBARY, FL 32713
1-800-432-4770

TRAFFIC DEPARTMENT - ESCAMBIA COUNTY PUBLIC WORKS
MRS. JOHNNY COX
3363 WEST PARK PLACE
PENSACOLA, FL. 32505 PH:(850) 595-3404

3. AT&T FLORIDA WILL COMPLETE ALL WORK DURING THE HOURS OF 7:30 AM - 4:30 PM, MONDAY THRU FRIDAY. NO NIGHT OR WEEKEND WORK.

4. ALL CABLE DAMAGE MUST BE REPORTED TO THE ATT FLORIDA REPAIR SERVICE DEPARTMENT AT 611 FROM A LAND LINE OR 877-737-2478 IF USING A CELL PHONE.

5. ALL LOOP DETECTOR INSTALLATION SHALL BE DONE AS PER FDOT INDEX 17781.

6. CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.

7. UTILITIES TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. NECESSARY REPAIRS SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS AND SHALL BE TO THE SATISFACTION OF UTILITY OWNERS.

DEMOLITION NOTES:

1. ALL ASPHALT AND CONCRETE SHALL BE SAW CUT AT EDGES TO REMAIN.

2. SAW CUTS SHALL BE MADE IN A NEAT WORKMAN LIKE MANNER.

3. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS, AT NO ADDITIONAL COST TO THE OWNER.

EROSION CONTROL NOTES:

1. EROSION CONTROL MEASURES SHOWN HERE ON ARE TO BE CONSIDERED THE MINIMUM INSTALLATION REQUIREMENTS.

2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONTROL OF SEDIMENTATION AND PREVENTION OF EROSION WITHIN THE LIMITS OF THE PROJECT. CONTRACTOR SHALL PROVIDE ANY MATERIAL ITEM OR WORK EFFORT NECESSARY TO PREVENT EROSION AND TO MAINTAIN SEDIMENT ON-SITE THROUGHOUT THE DURATION OF CONSTRUCTION.

3. SEE GENERAL NOTES FOR ADDITIONAL EROSION CONTROL MEASURES.

LEGEND

	EXIST. TELEPHONE WIRE PULL BOX		EXIST. IRON ROD & CAP
ELEC	EXIST. ELECTRICAL METER		EXIST. PIPE/ROD/BAR
	EXIST. POWER POLE		EXIST. CONCRETE MONUMENT
	EXIST. LIGHT POLE		EXIST. PINE TREE
	EXIST. FLOOD LIGHT		EXIST. OAK TREE
WATER	EXIST. WATER VALVE COVER		EXIST. MISCELLANEOUS TREE
WATER	EXIST. WATER VALVE		EXIST. CONIFEROUS TREE
WATER	EXIST. WATER METER		EXIST. SHRUB
	EXIST. WATER FAUCET	x	EXIST. METAL FENCE (AS SPECIFIED)
	EXIST. GUY WIRE ANCHOR		EXIST. WOOD FENCE (AS SPECIFIED)
	EXIST. FIRE HYDRANT		APPROX. RIGHT-OF-WAY LINE
	EXIST. MAILBOX		APPROX. PROPERTY LINE
	EXIST. SINGLE SUPPORT SIGN	GAS	EXIST. GAS MAIN/SIZE
S	EXIST. SEWER MANHOLE	OHU	EXIST. OVERHEAD UTILITY
D	EXIST. STORM MANHOLE	8"W	EXIST. WATER MAIN/SIZE
	EXIST. CLEANOUT	FOC	EXIST. FIBER OPTIC CABLE
	BENCHMARK (INFORMATION SPECIFIED)	BE	EXIST. BURIED ELECTRICAL
	EXIST. NAIL	BT	EXIST. TELEPHONE
	EXIST. CONCRETE AREA		EXIST. GRAVEL AREA
	EXIST. ASPHALT AREA		EXIST. SAND/DIRT AREA
	PROPOSED ASPHALT AREA		PROPOSED SILT FENCE
	PROPOSED CONCRETE AREA		
	PROPOSED DEMOLITION AREA		

Rev	Date	Drawn	Description	Ch'k'd	App'd

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Architects Engineers Surveyors
AA - C0000035 EB - 0000155 LB - 0006783

Client
Escambia County
Board of County Commissioners

Title
Floridian Ditch
Restoration Phase II
(Sarasota Project)

GENERAL NOTES

THIS DRAWING IS NOT FOR CONSTRUCTION

Project Number	B/O	Total
502100479		12

Designed	K. MORGAN	Eng check	
Drawn	C. RILEY	Coordination	
Dwg check		Approved	

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NTS	PRE	P1	STD

Drawing Number
C-002

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SUMMARY OF QUANTITIES		
	Unit	Quantity
	LS	1
	LS	1
	LS	1
	LS	1
	LS	1
	LS	1
	LS	1
	LS	1
	LF	473
	LF	275
	LF	482
	LF	185
	LF	65
	LF	53
	EA	1
	EA	1
	EA	5
	EA	5
	EA	2
	EA	1
	TN	192
	SY	11
	SY	4500
	LS	1

PAY ITEM NOTES:

1. MAINTENANCE OF TRAFFIC PAY ITEM SHALL INCLUDE ALL ITEMS NECESSARY TO PROVIDE A SAFE WORK ZONE AND SHOULD INCLUDE ALL NECESSARY ITEMS REQUIRED FOR TRAFFIC CONTROL.THE MAINTENANCE OF TRAFFIC SHALL MAINTAIN ALL LANE ON BLUE ANGLE PARKWAY. THE CONTRACTOR SHALL PROVIDE THE COUNTY A TRAFFIC CONTROL PHASING PLAN FOR REVIEW AND APPROVAL PRIOR TO STARTING CONSTRUCTION. THIS PAY ITEM SHALL INCLUDE ALL ITEMS NECESSARY DEVELOP A TRAFFIC CONTROL PLAN AND PROVIDE A SAFE WORK ZONE FOR RESIDENTS AND THE PUBLIC.

2. EROSION CONTROL PAY ITEM SHALL INCLUDE ALL ITEMS NECESSARY TO PREVENT SITE SOILS FROM BEING DISCHARGED OFFSITE AND MAY INCLUDE, BUT NOT LIMITED TO SILT FENCE, FLOATING TURBIDITY BARRIER, MULCH, HAY, STRAW, SOIL TRACKING DEVICES, TEMPORARY SODDING, ETC.

3. ANY TESTING AND COORDINATION REQUIRED SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEM.

4. CLEARING AND GRUBBING PAY ITEM SHALL INCLUDE ALL ITEMS NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS. THIS MAY INCLUDE SUCH ITEMS AS REMOVAL ASPHALT PAVEMENT,REMOVAL OF CONCRETE, SAWCUTTING. TREE REMOVAL, TREE TRIMMING, FENCE REMOVAL, LANDSCAPE DEMOLITION, UTILITIES, FENCING, REMOVAL OF EXISTING DRAINAGE STRUCTURES, REMOVAL OF DRAINAGE PIPING, RIPRAP, BRICKS, DEBRIS, VEGETATION, AND OTHER MISCELLANEOUS ITEMS. ALL TREES WITHIN THE DRAINAGE EASEMENT SHALL BE REMOVED. TREES. TREES WITHIN IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE INCLUDED IN THE CLEARING AND GRUBBING PAY ITEM.

5. FILTER FABRIC SHALL BE INCLUDED IN THE COST OF RIPRAP.

6. ANY PUMPING NECESSARY FOR CONSTRUCTION SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEM.

7. ANY EARTHWORK SHALL BE INCLUDED IN THE ASSOCIATED PAY ITEM OR CONSTRUCTION ACTIVITY.

8. ALL DISTURBED AREAS SHALL BE SODDED.

9. THE SOD SHALL MATCH THE EXISTING SOD TYPE.

10. DEWATERING PAY ITEM SHALL INCLUDE ALL PUMPING ACTIVITIES TO FACILITATE ALL ROADWAY AND DRAINAGE CONSTRUCTION ACTIVITIES.

11. FENCING PAY ITEMS INCLUDES ALL MATERIALS NEEDED TO INSTALL THE TYPE OF FENCE INCLUDING POST, GATES, CONCRETE FOUNDATION, ETC.

15. COST OF FOR ANY BEDDING MATERIAL, TEMPORARY SHEETING, TRENCH BOXES, AND OR ANY OTHER ITEMS NECESSARY TO INSTALL DRAINAGE SYSTEM SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEM.

16. YARD DRAIN PIPE PAY ITEMS SHALL INCLUDE ALL MATERIALS NECESSARY TO CONNECT THE EXISTING YARD PIPE TO THE DRAINAGE INLETS. THIS ITEM MAY INCLUDE BUT NOT LIMITED TO ELBOWS, ADAPTORS, PIPE WRAPPING, AND CONNECTORS.

17. BOX CULVERT CONNECTION PAY ITEM SHALL INCLUDE THE CONCRETE, REBAR, BEDDING MATERIAL, TEMPORARY SHEETING, TEMPORARY PIPING, PUMPING, AND ANY OTHER ITEMS NECESSARY TO CONNECT THE BOX CULVERT TO THE DRAINAGE INLET.

18. AS-BUILT PAY ITEM SHALL INCLUDE A PDF AND 3 HARD COPIES SIGNED AND SEALED BY A REGISTERED SURVEYOR.

19. DRAINAGE STRUCTURES GREATER THAN 5 FEET SHALL INCLUDE A LADDER. THE COST OF THE LATTER SHALL BE INCLUDED IN THE COST OF THE STRUCTURE.

20. DRAINAGE PIPE SHALL BE BACKFILL WITH MANUFACTURE RECOMMENDED MATERIAL. THE COST OF THE BACKFILL SHALL BE INCLUDED IN THE COST OF THE PIPE.

21. SHED LEVELING PAY ITEM SHALL INCLUDE ALL MATERIAL NECESSARY TO STRUCTURALLY STABILIZE AND LEVEL THE SHED AT 6450 SARASOTA STREET. THIS ITEM COULD INCLUDE BLOCK, FLOWABLE FILL, EARTHWORK, AND SOD.

22. U-TYPE CONCRETE ENERGY DISSIPATOR PAY ITEM SHALL INCLUDE THE FENCE AND SAND CEMENT RIPRAP IN THE COST OF THE STRUCTURE. SEE FDOT STANDARD PLANS 430-012 FOR FENCE AND SAND CEMENT RIPRAP.

Rev	Date	Drawn	Description	Ch'k'd	App'd

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SUMMARY OF PAY ITEMS

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502100479		12

Designed	K. MORGAN	Eng check	
Drawn	C. RILEY	Coordination	
Dwg check		Approved	

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Drawing Number
C-003

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STRUCTURE TABLE						
STR. #	STATION	OFFSET / SIDE	NORTHING EASTING	DESCRIPTION	RIM EL.	CONNECTED PIPE
S-1	12+35.00	0.00	N: 547914.44 E: 1078540.41	FDOT 60" U-TYPE ENDWALL ENERGY DISSIPATOR	70.67	INV. (IN) = 65.13 60" HP STORM (P-1)
S-2	12+45.00	0.00	N: 547914.54 E: 1078550.40	FDOT TYPE D INLET W/ 5' X 7' J BOTTOM	73.10	INV. (OUT) = 65.20 60" HP STORM (P-1) INV. (IN) = 65.20 60" HP STORM (P-2)
S-3	13+15.00	0.00	N: 547910.45 E: 1078620.29	FDOT TYPE D INLET W/ 5' X 7' J BOTTOM W/ SINGLE SLOT	73.80	INV. (OUT) = 65.60 60" HP STORM (P-2) INV. (IN) = 65.60 60" HP STORM (P-3)
S-4	13+85.00	0.00	N: 547906.36 E: 1078690.16	FDOT TYPE D INLET W/ 5' X 7' J BOTTOM W/ SINGLE SLOT	74.50	INV. (OUT) = 66.00 60" HP STORM (P-3) INV. (IN) = 66.00 60" HP STORM (P-4)
S-5	14+55.00	0.00	N: 547902.27 E: 1078760.04	FDOT TYPE D INLET W/ 5' X 7' J BOTTOM W/ SINGLE SLOT	76.65	INV. (OUT) = 68.15 60" HP STORM (P-4) INV. (IN) = 68.15 60" HP STORM (P-5)
S-6	15+25.00	0.00	N: 547898.18 E: 1078829.92	FDOT TYPE D INLET W/ 5' X 7' J BOTTOM W/ SINGLE SLOT	78.80	INV. (OUT) = 70.30 60" HP STORM (P-5) INV. (IN) = 70.30 60" HP STORM (P-6)
S-7	16+00.00	0.00	N: 547893.80 E: 1078904.80	FDOT TYPE D INLET W/ 5' X 7' J BOTTOM W/ SINGLE SLOT	81.10	INV. (OUT) = 72.60 60" HP STORM (P-6) INV. (IN) = 72.60 60" HP STORM (P-7)
S-8	17+17.33	0.00	N: 547896.68 E: 1079022.09	FDOT TYPE E INLET W/ 5'X8' J BOTTOM	87.68	INV. (OUT) = 78.50 60" HP STORM (P-7)

PIPE TABLE			
NAME	SIZE / MATERIAL	LENGTH	SLOPE
P-1	60" HP STORM"	10.00'	0.69%
P-2	60" HP STORM"	70.00'	0.57%
P-3	60" HP STORM"	70.00'	0.57%
P-4	60" HP STORM"	70.00'	3.07%
P-5	60" HP STORM"	70.00'	3.07%
P-6	60" HP STORM"	75.00'	3.07%
P-7	60" HP STORM"	117.00'	5.02%

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Drawn	C. RILEY	Coordination	
Dwg check		Approved	

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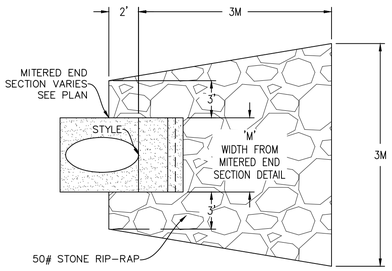
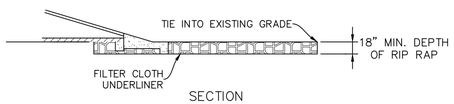


PLAN



SECTION

RIP-RAP DETAIL

N.T.S.

Rev	Date	Drawn	Description	Ch'k'd	App'd

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www.mottmac.com/americas

Architects Engineers Surveyors
AA - C0000035 EB - 0000155 LB - 0006783

Client

Escambia County
Board of County Commissioners

Title

Floridian Ditch
Restoration Phase II
(Sarasota Project)

DETAILS

THIS DRAWING IS
NOT FOR
CONSTRUCTION

Project Number	B/O	Total
502100479		12

Designed	K. MORGAN		Eng check		
Drawn	C. RILEY		Coordination		
Dwg check			Approved		

Scale at ANSI D	Status	Rev	Security
NTS	PRE	P1	STD

Drawing Number

C-005

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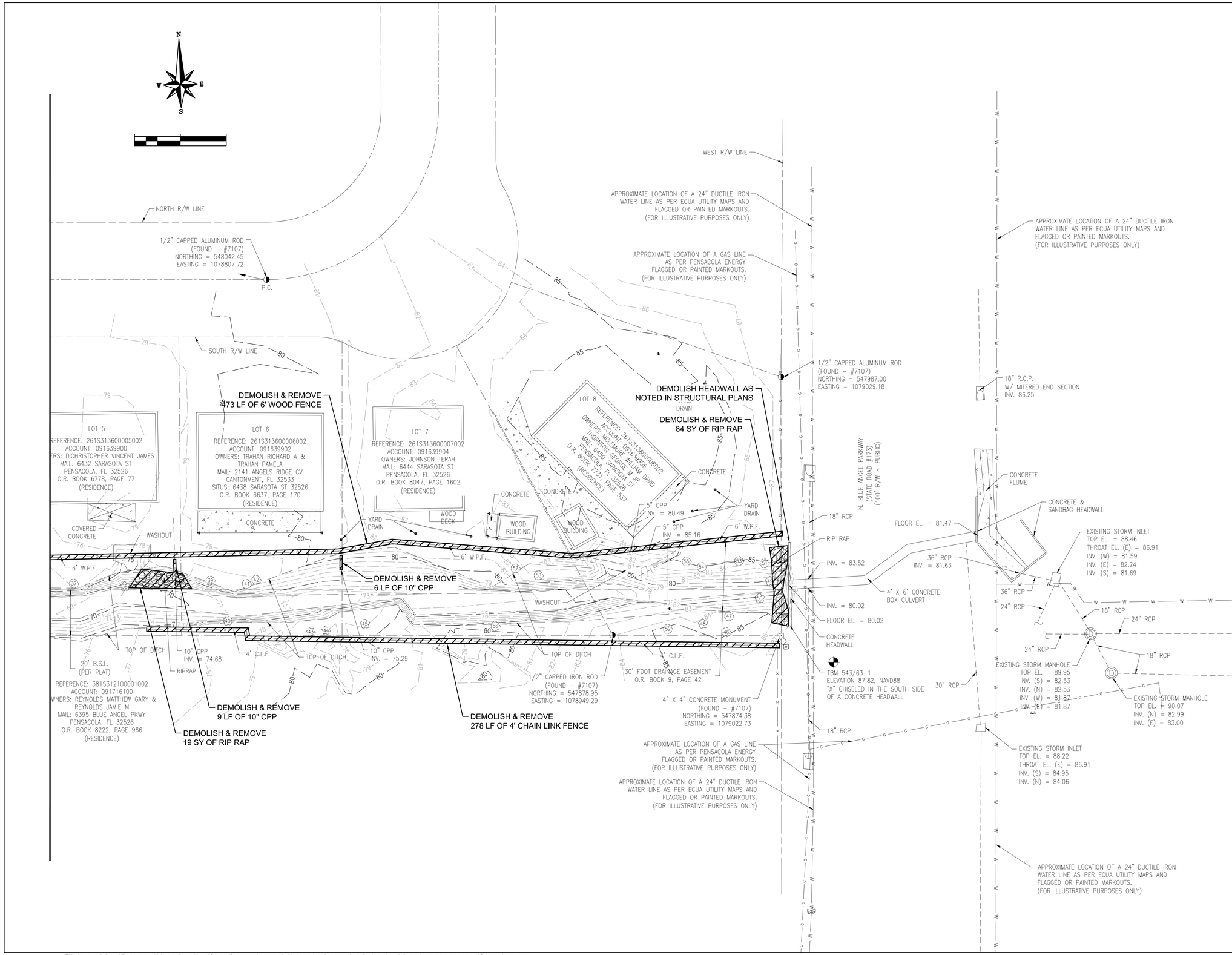

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EXISTING SITE, DEMOLITION
& EROSION CONTROL PLAN

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1:20	PRE	P1	STD

Drawing Number
C-007

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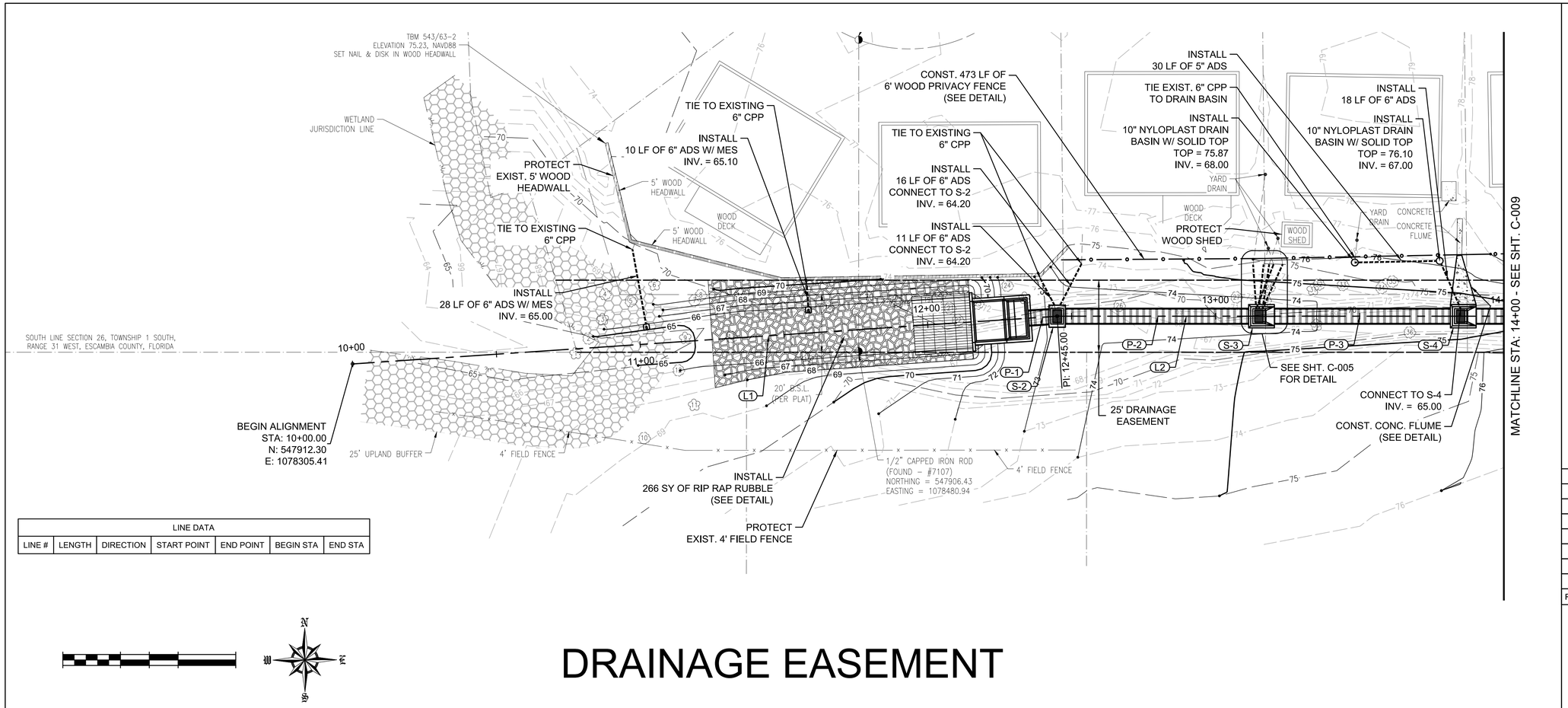

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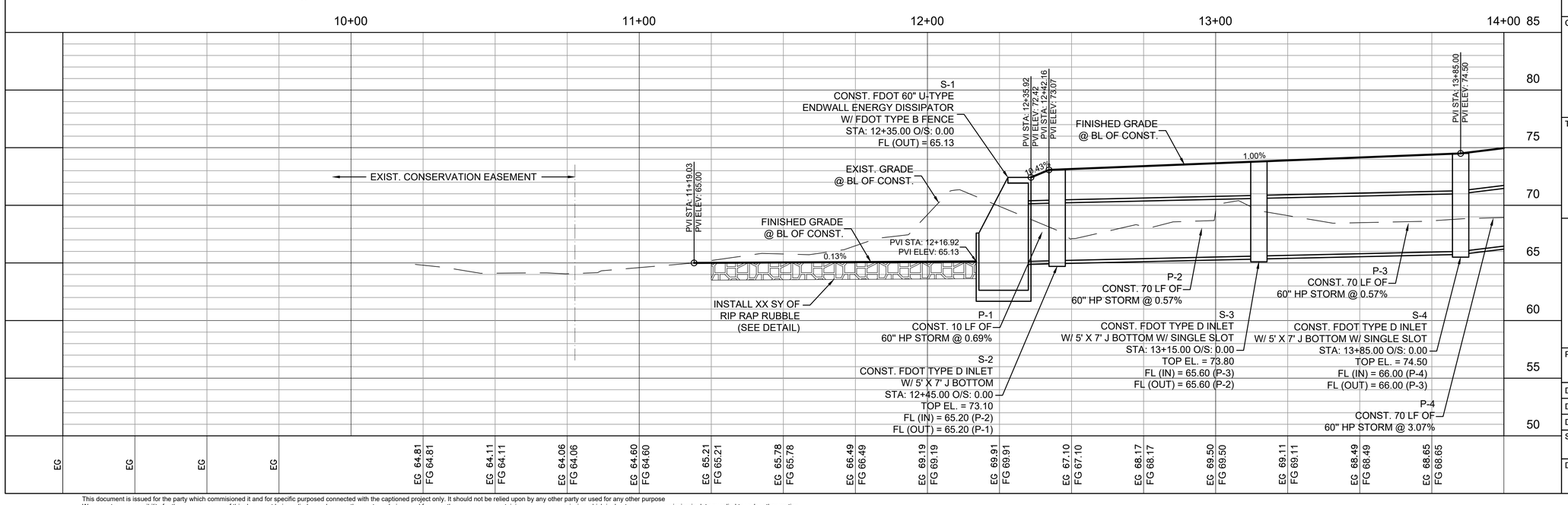

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(Sarasota Project)

PLAN & PROFILE
STA: 9+00 - 14+00

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502100479		12

Designed	K. MORGAN	Eng check	
Drawn	C. RILEY	Coordination	
Dwg check		Approved	

Scale at ANSI D	Status	Rev	Security
1:20	PRE	P1	STD

Drawing Number
C-008

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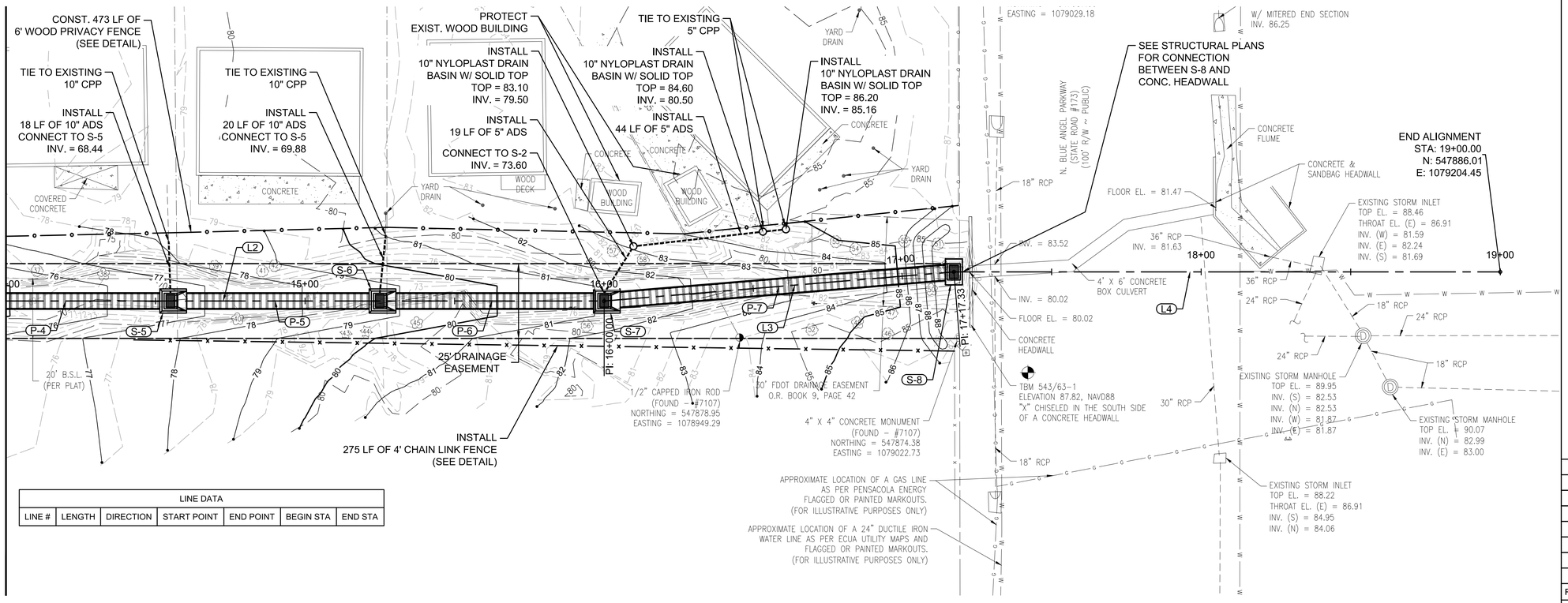

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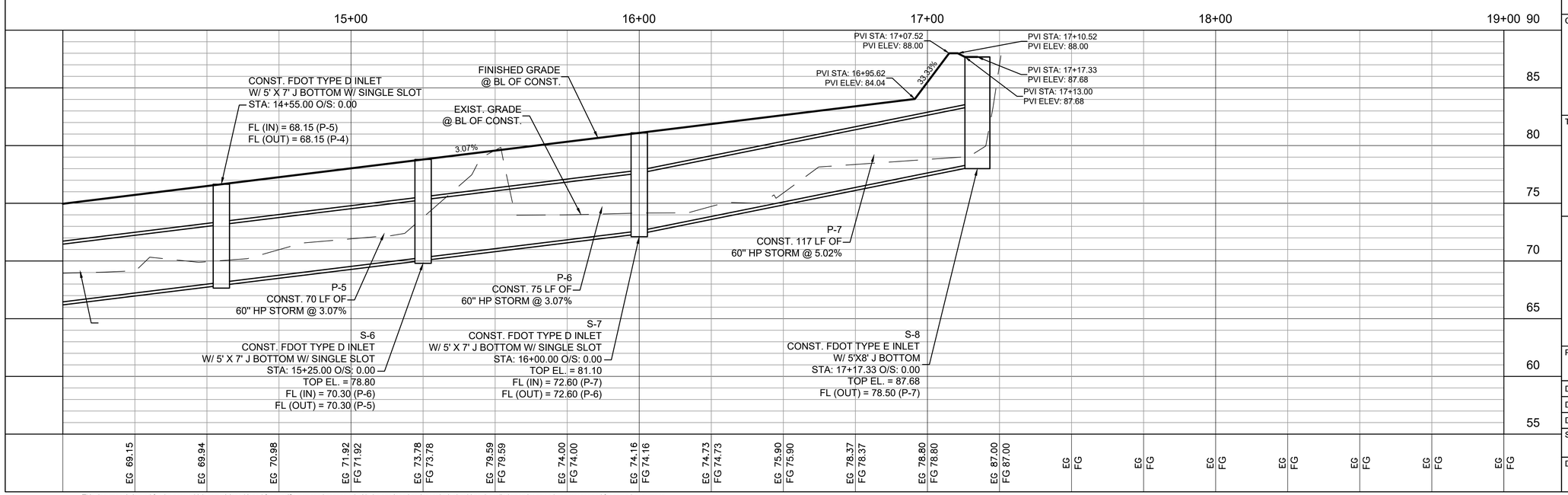

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Client
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Floridian Ditch
Restoration Phase II
(Sarasota Project)

PLAN & PROFILE
STA: 14+00 - 19+00

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Drawn	C. RILEY	Coordination	
Dwg check		Approved	

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Drawing Number
C-009

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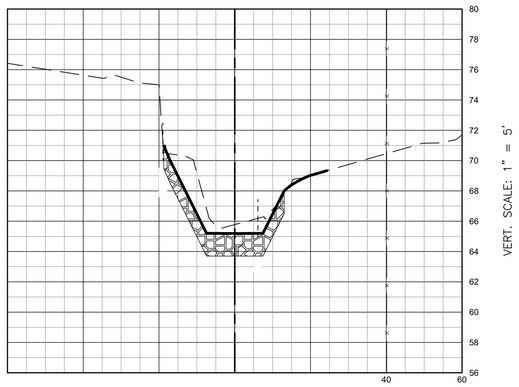

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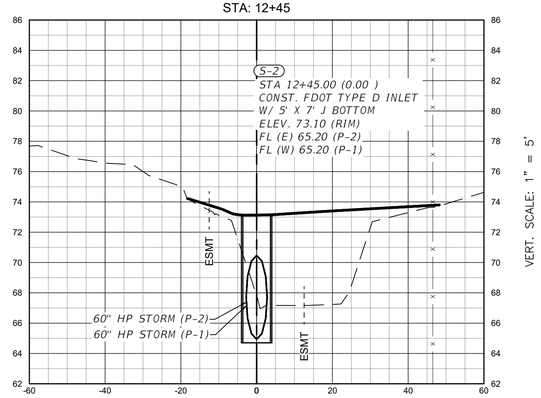

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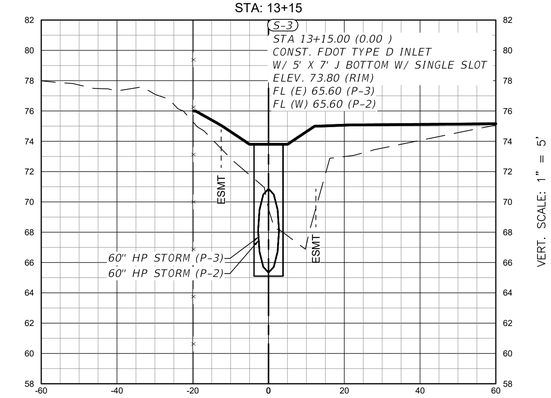

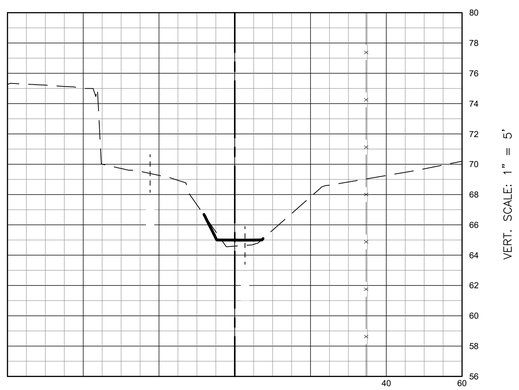

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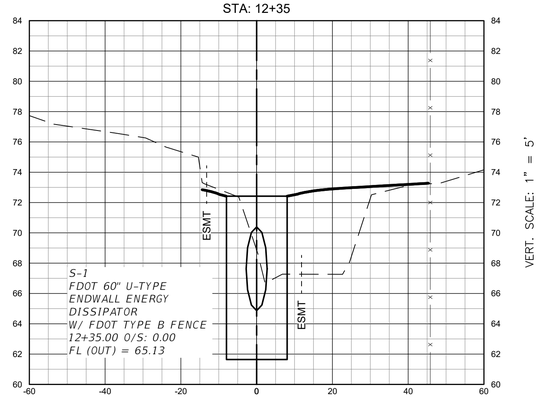

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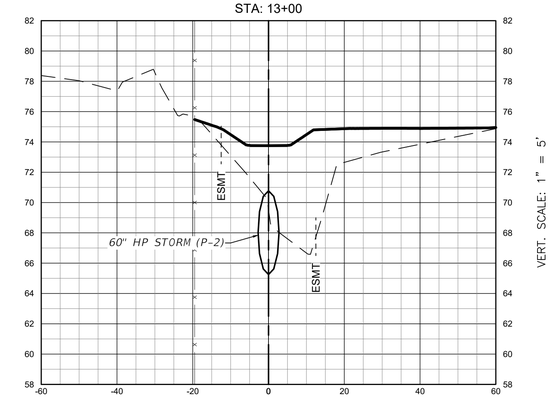

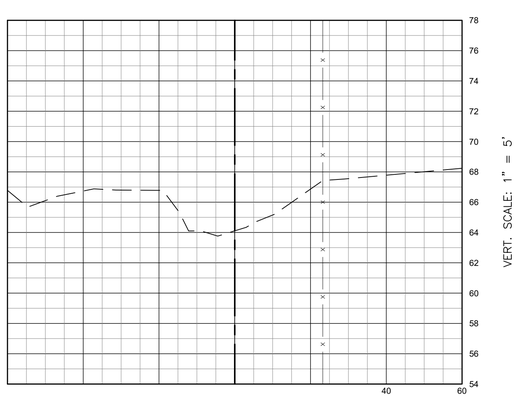

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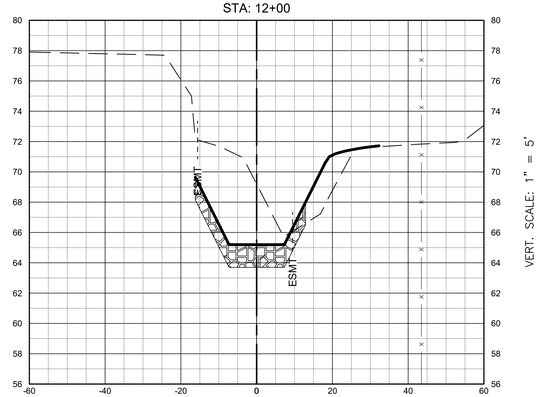

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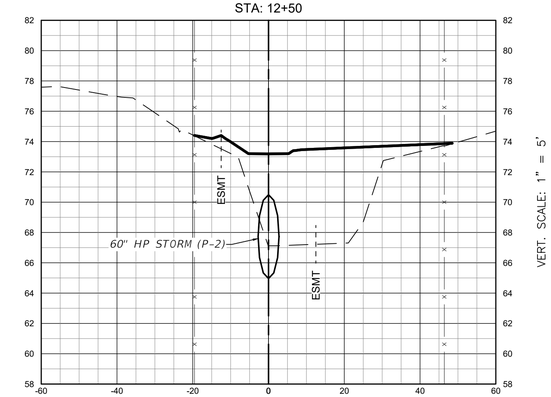

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Escambia County
Board of County Commissioners

Title
Floridian Ditch
Restoration Phase II
(SARASOTA PROJECT)

CROSS SECTIONS

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502100479		12

Designed	K. MORGAN	Eng check	
Drawn	C. RILEY	Coordination	
Dwg check		Approved	

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1:20	PRE	P1	STD

Drawing Number
C-010

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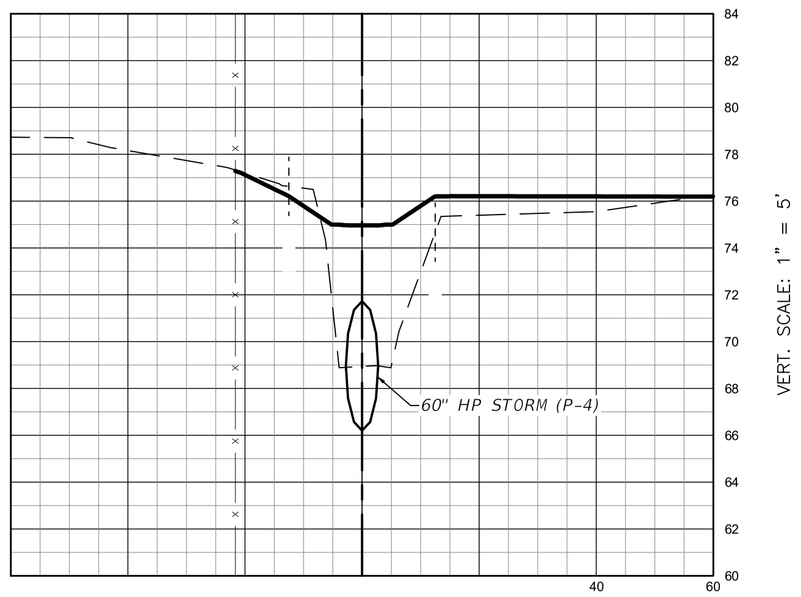

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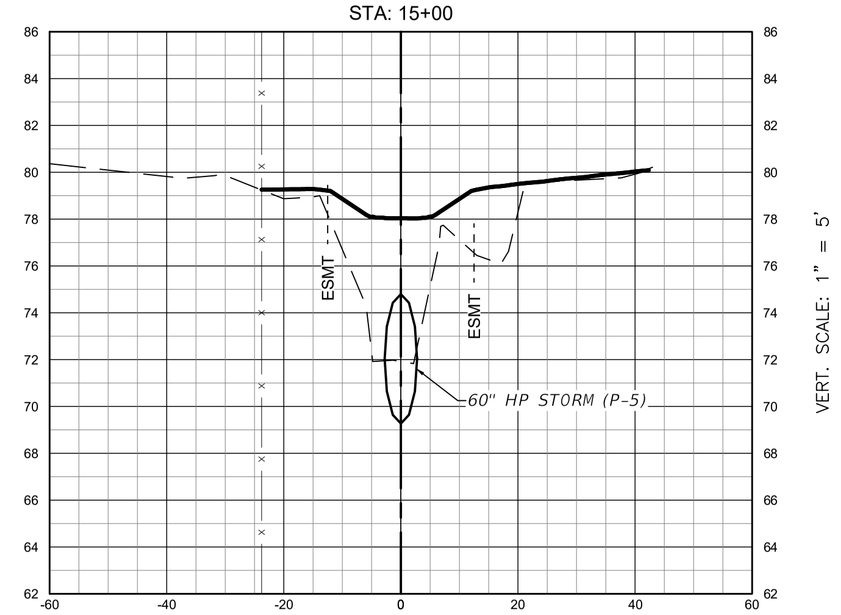

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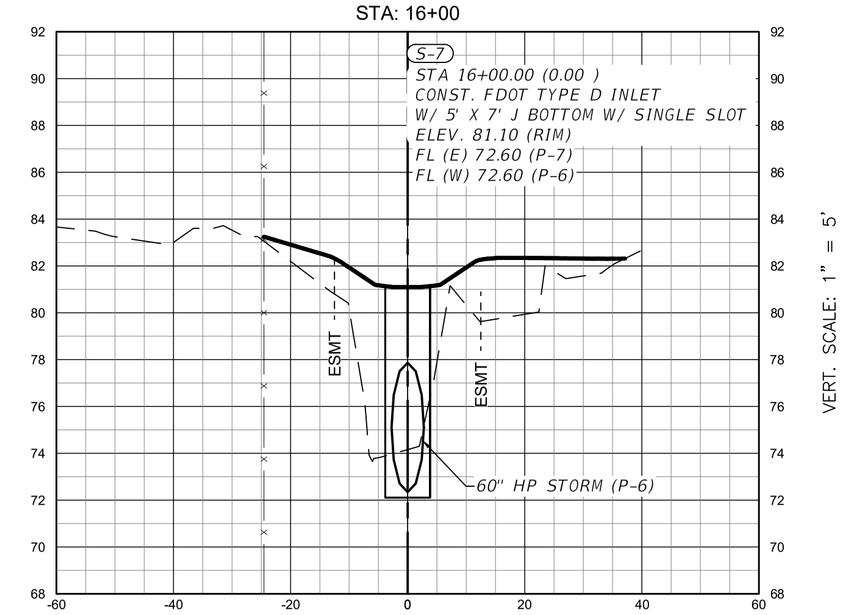

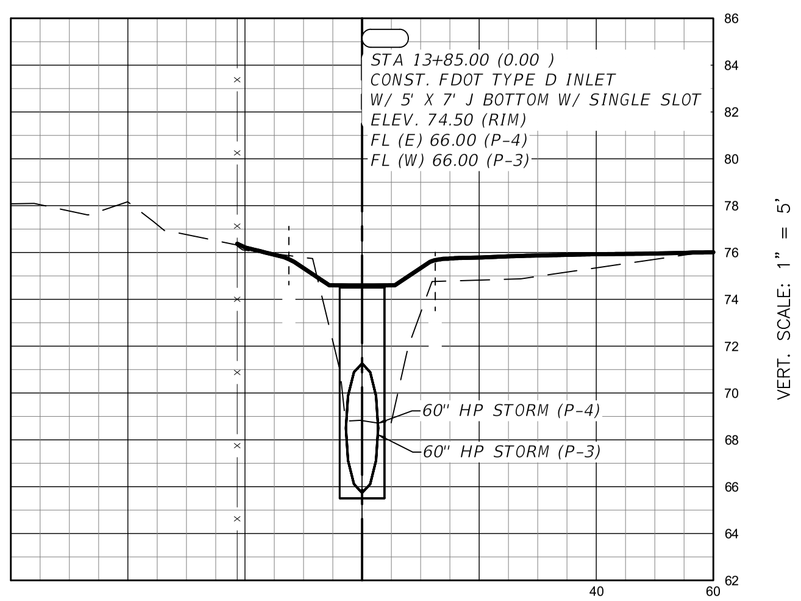

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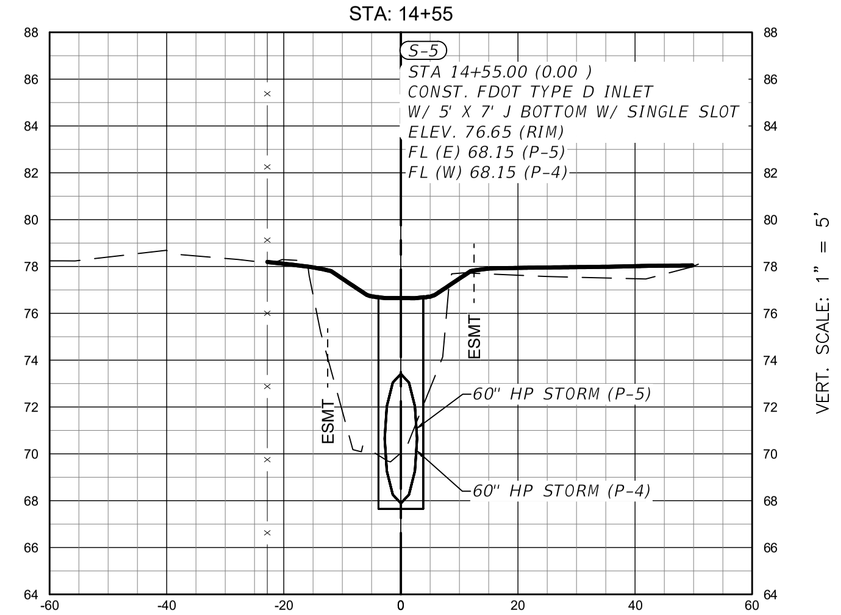

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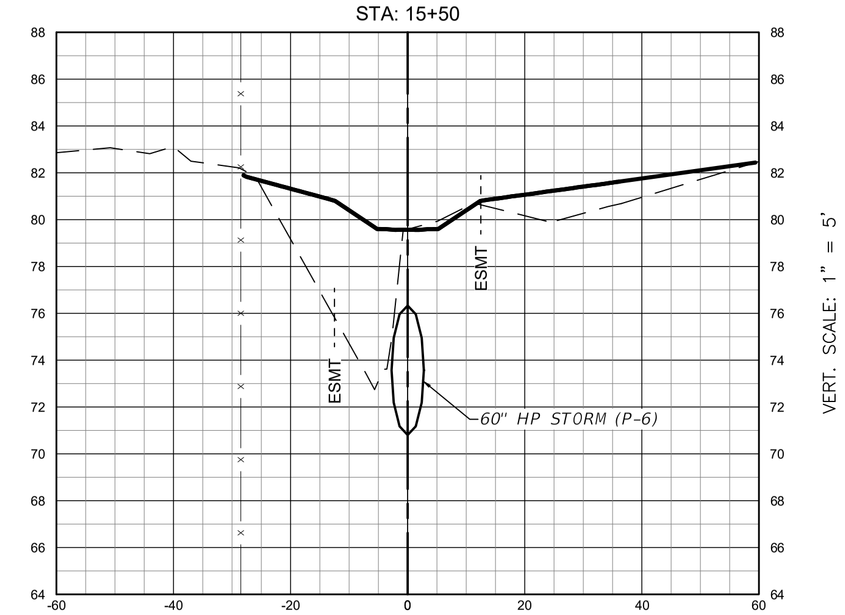

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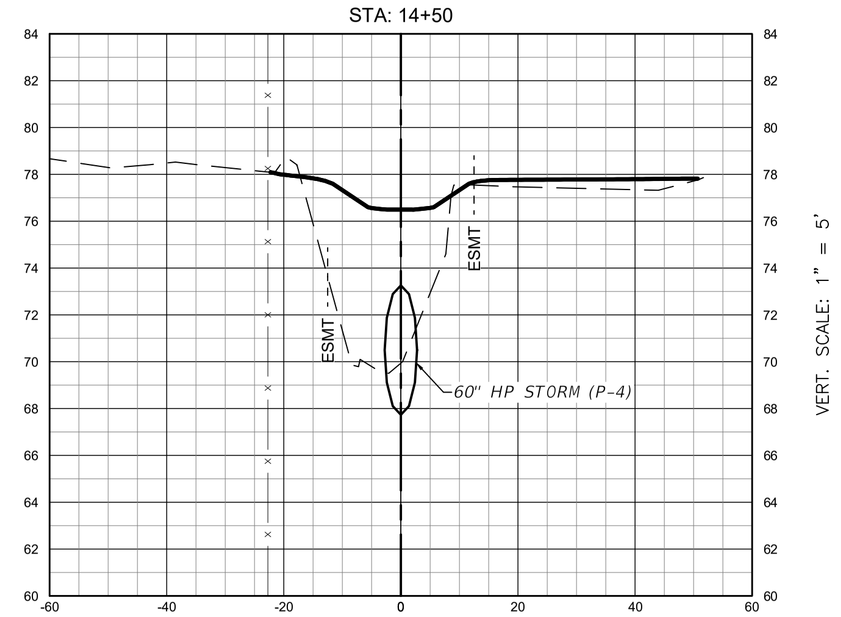

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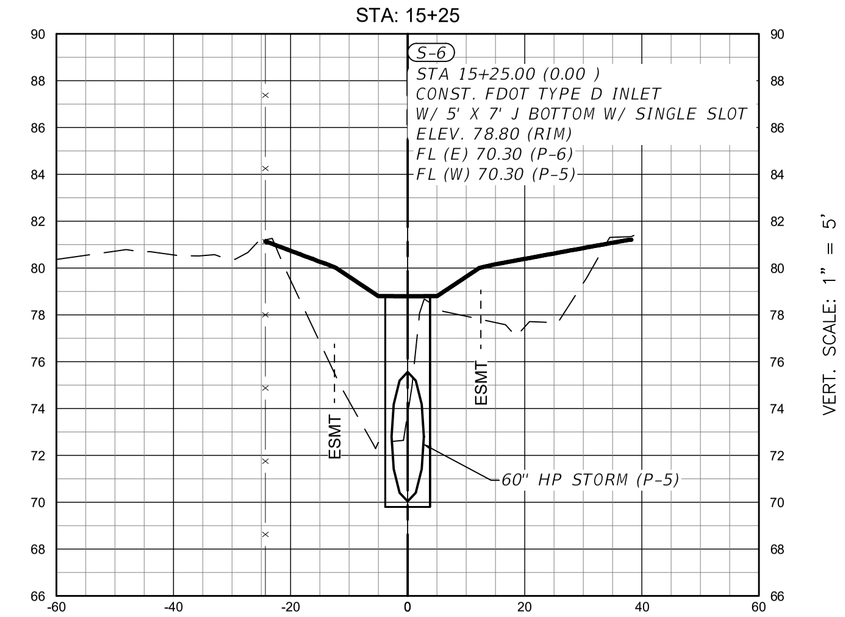

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Drawn	C. RILEY	Coordination	
Dwg check		Approved	

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Drawing Number
C-011

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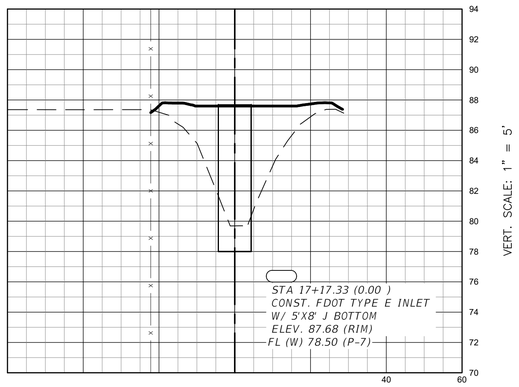

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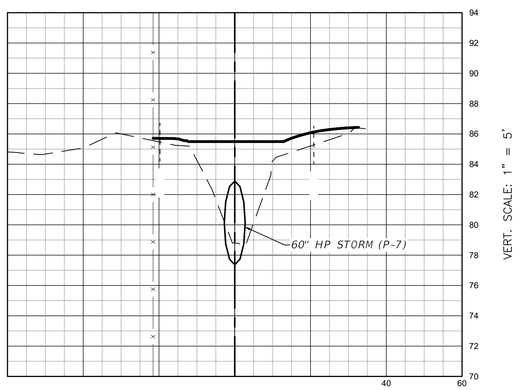

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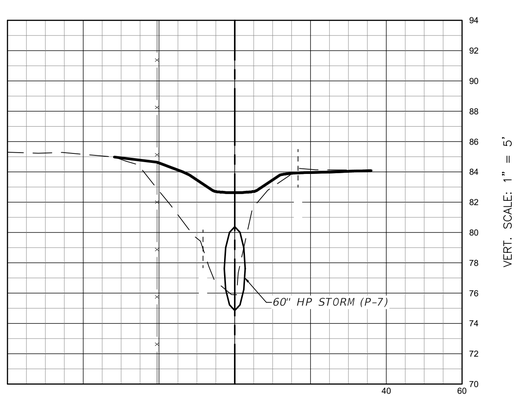

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C-012

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GENERAL NOTES:

1. SHEETS S-001 TO S-003 PROVIDE DETAILS FOR CONNECTING PRECAST DRAINAGE STRUCTURE S-8 TO AN EXISTING 4X6 BOX CULVERT. THE DRAINAGE STRUCTURE ALSO CONNECTS TO A 60" DIAMETER PIPE. REFER TO THE CIVIL DRAWINGS FOR REQUIRED PIPE INVERT ELEVATION AND ADDITIONAL LAYOUT INFORMATION.

DESIGN SPECIFICATIONS:
1. FDOT STRUCTURES MANUAL DATED JANUARY 2020, VOLUME 1.
2. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS (8TH EDITION) AND APPROVED INTERIMS AS SPECIFIED IN THE STRUCTURES DESIGN GUIDELINES.

GOVERNING STANDARDS AND CONSTRUCTION SPECIFICATIONS:
1. FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2021-2022 DESIGN STANDARDS AND JANUARY 2021 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT DOCUMENTS.
2. ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.
3. ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATIONS REFERRED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN METHOD (LRFD)

DESIGN LOADING:
1. LIVE LOADING = 230 PSF
2. DEAD LOADS: REINFORCED CONCRETE = 150 PCF, SOIL = 115 PCF, WATER = 62.4 PCF

BACKFILL SOIL:
1. DESIGN PROPERTIES: DENSITY = 115 PCF, ANGLE OF INTERNAL FRICTION = 30 DEGREES
2. MEET THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS SECTION 125 FOR EXCAVATION AND BACKFILLING OF STRUCTURES AND PIPE FOR MATERIALS AND COMPACTION.

CONCRETE:
1. ALL CONCRETE SHALL CONFORM WITH SECTION 346 OF THE FDOT STANDARD SPECIFICATIONS.
2. CONCRETE SHALL BE FDOT CLASS IV WITH F'C = 5.5 KSI MINIMUM.
3. CONCRETE CLEAR COVER SHALL BE 2" MINIMUM.
4. CONCRETE COVER DOES NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER." SEE FDOT SPECIFICATION SECTION 415 FOR ALLOWABLE REINFORCEMENT PLACEMENT TOLERANCES.

REINFORCING STEEL:
1. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 AND SHALL BE UNCOATED (BLACK) UNLESS OTHERWISE SHOWN IN THE PLANS.
2. ALL DIMENSIONS PERTAINING TO LOCATIONS OF REINFORCING ARE TO THE CENTERLINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO THE FACE OF CONCRETE.
3. TYPICAL REINFORCING BARS ARE DESIGNATED AS: 7~7A7 (QUANTITY — MARK — SIZE)

PRECAST DRAINAGE STRUCTURE:
1. MEET THE REQUIREMENTS OF THE FDOT STANDARD SPECIFICATIONS FOR PRECAST DRAINAGE STRUCTURES.
2. MEET THE REQUIREMENTS OF FDOT STANDARD PLANS INDEX 425-001, 425-010, AND 425-052 AS MODIFIED BY THESE PLANS.
3. THE PRECAST DRAINAGE STRUCTURE SHALL BE A TYPE J WITH DIMENSIONS AS SHOWN IN THE PLANS.
4. INSTALL THREADED DOWEL BAR SPLICES IN THE PRECAST BOTTOM AND TOP SLAB AS SHOWN IN THE PLANS. USE A BAR SPLICE SYSTEM SUCH AS DAYTON SUPERIOR DBDI SPLICE SYSTEM OR OTHER APPROVED SYSTEM CAPABLE OF DEVELOPING THE STRENGTH OF THE REINFORCING BAR. SUPPLY THREADED BARS SHOWN AS TYPE E BARS IN THE PLANS WHICH MATCH THE SYSTEM USED IN THE PRECAST.
5. COST OF THREADED BARS AND INSERTS SHALL BE INCLUDED IN THE COST OF THE PRECAST CONCRETE STRUCTURES.

BEDDING STONE AND FILTER FABRIC:
1. MEET THE REQUIREMENTS OF THE FDOT STANDARD SPECIFICATIONS FOR MATERIAL AND INSTALLATION.
2. BEDDING STONE SHALL BE WRAPPED WITH TYPE D-4 FILTER FABRIC WITH MINIMUM 24" OVERLAP.
3. COST OF THE FILTER FABRIC IS INCIDENTAL TO THE COST OF THE BEDDING STONE.

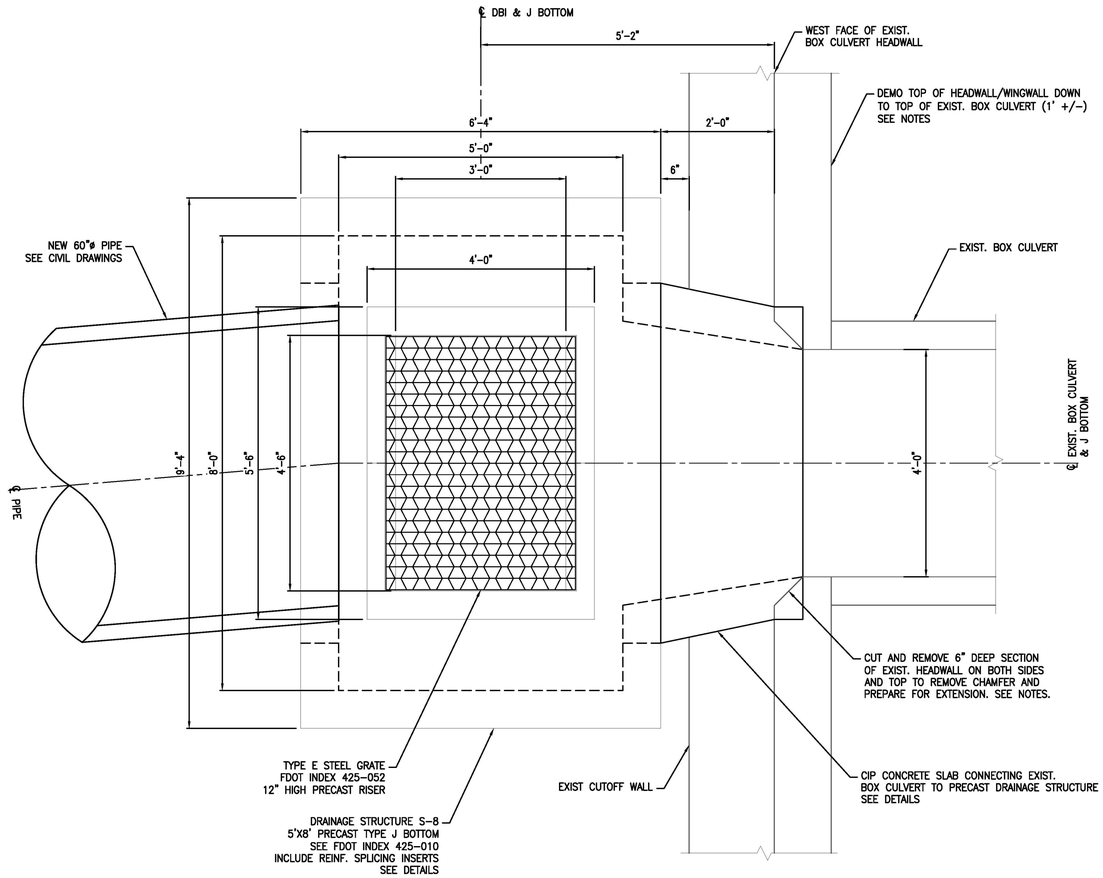
EXISTING CULVERT DEMOLITION AND PREPARATION:
1. CUT ALONG THE SURFACE OF THE EXISTING HEADWALL TO REMOVE THE 6" CHAMFER. REMOVE EXISTING CONCRETE WHILE AVOIDING DAMAGE TO THE EXISTING REINFORCEMENT. EXISTING CONCRETE SURFACES TO RECEIVE ADDITIONAL CONCRETE SHALL BE CLEANED AND ROUGHENED IN ACCORDANCE WITH THE FDOT SPECIFICATIONS.
2. CUT AND REMOVE THE EXISTING HEADWALL ABOVE THE BOX CULVERT DOWN TO THE TOP OF THE EXISTING BOX CULVERT. (APPROXIMATELY 1'-0"). CUT EXPOSED REINFORCEMENT DOWN 1" BELOW THE CONCRETE SURFACE AND COAT WITH AN EPOXY GROUT.
3. COST FOR REMOVAL AND DISPOSAL OF MATERIAL FROM EXISTING HEADWALL AND COST OF CLEANING, STRAIGHTENING AND DOWELING REINFORCEMENT STEEL SHALL BE INCLUDED IN THE COST FOR CONCRETE AND STEEL FOR THE CONNECTING STRUCTURE.

EPOXY GROUTING:
1. USE AN ADHESIVE BONDING MATERIAL SYSTEM IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 416 AND 937.
2. EPOXY GROUTING OPERATIONS SHALL BE OBSERVED BY A COUNTY INSPECTOR.
3. COST FOR EPOXY GROUTING IS INCIDENTAL TO THE REINFORCEMENT COST.

EARTHWORK:
1. EXCAVATE BELOW THE DRAINAGE STRUCTURE TO REMOVE ALL LOOSE AND ORGANIC MATERIALS AND BACKFILL IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 125.
2. DO NOT DISTURB SOIL BENEATH THE EXISTING BOX CULVERT CUTOFF WALL. DRIVE TEMPORARY PIPE OR FLAT PLATE ADJACENT TO THE CUTOFF WALL PRIOR TO EXCAVATING BELOW THE BOTTOM OF THE CUTOFF WALL AS REQUIRED TO PREVENT SOIL SLOUGHING OR UNDERMINING. REMOVE THE TEMPORARY SOIL SUPPORTS AFTER PLACING THE PRECAST BOTTOM. COST OF PLACING TEMPORARY SOIL SUPPORTS, EXCAVATION, AND DEWATERING REQUIRED TO PLACE THE PRECAST BOTTOM IS INCLUDED IN THE COST OF THE PRECAST BOTTOM.
3. COST OF REMOVAL OF EXISTING RIPRAP SHALL BE INCLUDED IN THE COST FOR CLEARING AND GRUBBING.

CONSTRUCTION SEQUENCE:
1. MEANS AND METHODS OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR AND THESE NOTES ARE NOT INTENDED TO PROVIDE COMPLETE DIRECTIONS FOR HOW THE WORK IS TO BE PERFORMED.
2. INSTALL DEWATERING EQUIPMENT AS REQUIRED TO DIVERT FLOW THROUGH THE BOX CULVERT.
3. PERFORM CLEARING AND GRUBBING OPERATIONS AND EXCAVATE TO REMOVE ALL DELETERIOUS MATERIAL BELOW THE BEDDING STONE FOOTPRINT.
4. PERFORM DEMOLITION OPERATIONS TO REMOVE THE TOP PORTION OF THE EXISTING BOX CULVERT HEADWALL DOWN TO THE TOP OF THE CULVERT AND TO REMOVE THE 6" CHAMFER TO MATCH THE WALL AND SLAB DIMENSION OF THE NEW CIP CONCRETE SECTIONS.
5. DEWATER AS REQUIRED TO ALLOW SOIL COMPACTION.
6. PLACE FILL AND COMPACT SOIL AS REQUIRED BY THE SPECIFICATIONS TO THE BOTTOM OF BEDDING STONE ELEVATION.
7. PLACE FILTER FABRIC AND BEDDING STONE. VIBRATE THE BEDDING STONE TO PROVIDE AN UNYIELDING SURFACE LEVEL WITH THE BOTTOM OF THE PRECAST BOTTOM ELEVATION. WRAP THE BEDDING STONE WITH FILTER FABRIC.
8. EPOXY GROUT REINFORCEMENT INTO THE EXISTING BOX CULVERT.
9. INSTALL SPLICED REINFORCEMENT INTO THE PRECAST BOTTOM SECTION AND PLACE BOTTOM SECTION. PLACE BEDDING STONE BETWEEN THE PRECAST AND EXISTING CUTOFF WALL.
10. FORM BOTTOM SLAB, PLACE REINFORCEMENT AND CAST THE CONCRETE.
11. FORM WALLS, PLACE REINFORCEMENT AND CAST THE CONCRETE.
12. INSTALL SPLICED REINFORCEMENT INTO THE PRECAST TOP SLAB AND PLACE PRECAST TOP SLAB.
13. FORM THE TOP SLAB, PLACE REINFORCEMENT AND CAST THE CONCRETE.
14. PLACE THE BITUMINOUS COATING AND FILTER FABRIC OVER THE TOP SLAB.
15. PERFORM PIPE PLACEMENT OPERATIONS.

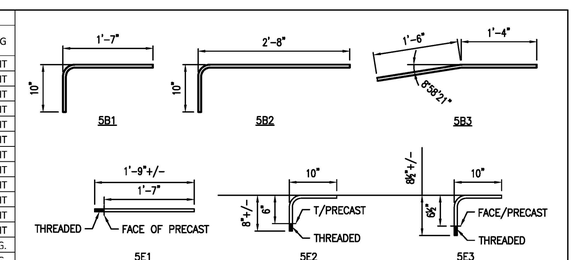
QUANTITIES:
1. CONCRETE = 2 CY
2. REINFORCING STEEL = 286 LB
3. THREADED REINFORCING STEEL = 35 LB (DOES NOT INCLUDE SPLICED REINFORCEMENT PLACED IN PRECAST)
4. BEDDING STONE = 6 TONS
5. FILTER FABRIC FOR FOUNDATION = 21 SY (INCIDENTAL TO THE COST OF THE BEDDING STONE)
6. FILTER FABRIC FOR TOP SLAB = 6 SY (INCIDENTAL TO PRECAST COST, DOES NOT INCLUDE FILTER FABRIC WRAP AROUND PIPE)
7. REFER TO CIVIL DRAWINGS FOR PRECAST, PIPE, AND EARTHWORK QUANTITIES.



DRAINAGE STRUCTURE S-8 PLAN

BILL OF REINFORCING STEEL

MARK	SIZE	NO. REQ'D	LENGTH	LOCATION	BENDING
5A1	5	2	5'-10"	TOP SLAB	STRAIGHT
5A2	5	2	5'-8"	TOP SLAB	STRAIGHT
5A3	5	2	5'-5"	TOP SLAB	STRAIGHT
5A4	5	2	5'-3"	TOP SLAB	STRAIGHT
5A5	5	2	5'-2"	TOP SLAB	STRAIGHT
5A6	5	6	2'-8"	TOP SLAB	STRAIGHT
5A7	5	16	2'-2"	TOP SLAB	STRAIGHT
5A8	5	2	5'-10"	BOT SLAB	STRAIGHT
5A9	5	4	2'-8"	WALLS	STRAIGHT
5A10	5	6	6'-6"	WALLS	STRAIGHT
5A11	5	2	5'-4"	WALLS	STRAIGHT
5A12	5	12	2'-10"	WALLS	STRAIGHT
5B1	5	6	2'-5"	BOT SLAB	SEE DIAG.
5B2	5	4	3'-6"	BOT SLAB	SEE DIAG.
5B3	5	12	2'-10"	WALLS	SEE DIAG.
5E1	5	7	1'-8"	TOP SLAB	SEE DIAG.
5E2	5	6	1'-6"	BOT SLAB	SEE DIAG.
5E3	5	8	1'-7"	WALLS	SEE DIAG.



BAR BENDING DIAGRAMS

Rev	Date	Drawn	Description	Ch'k'd	App'd

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Client
Escambia County
Board of Commisinoers

Title
Florida Ditch
Restoration Phase II
(Sarasota Project)
DRAINAGE STRUCTURE DETAILS
1 OF 3

Bart F. Hendricks P.E.
FL PE #51391

Project Number	B/O	Total
502100479		

Designed	BFH		Eng check	
Drawn	BFH		Coordination	
Dwg check			Approved	

Scale at ANSI D	Status	Rev	Security
As Shown	PRE		STD

Drawing Number
S-001

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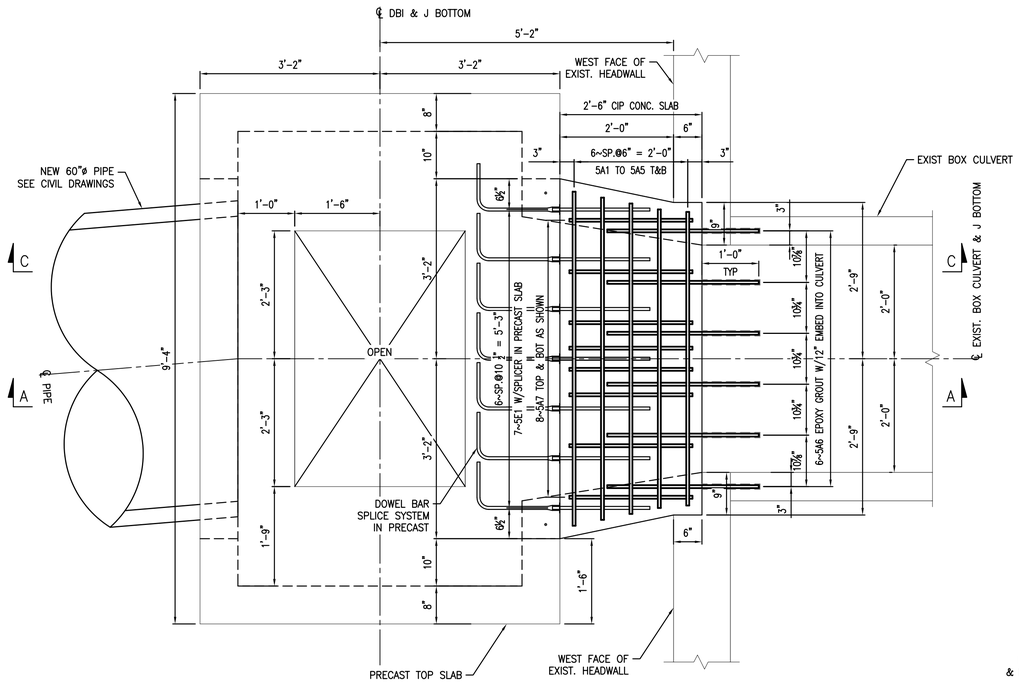
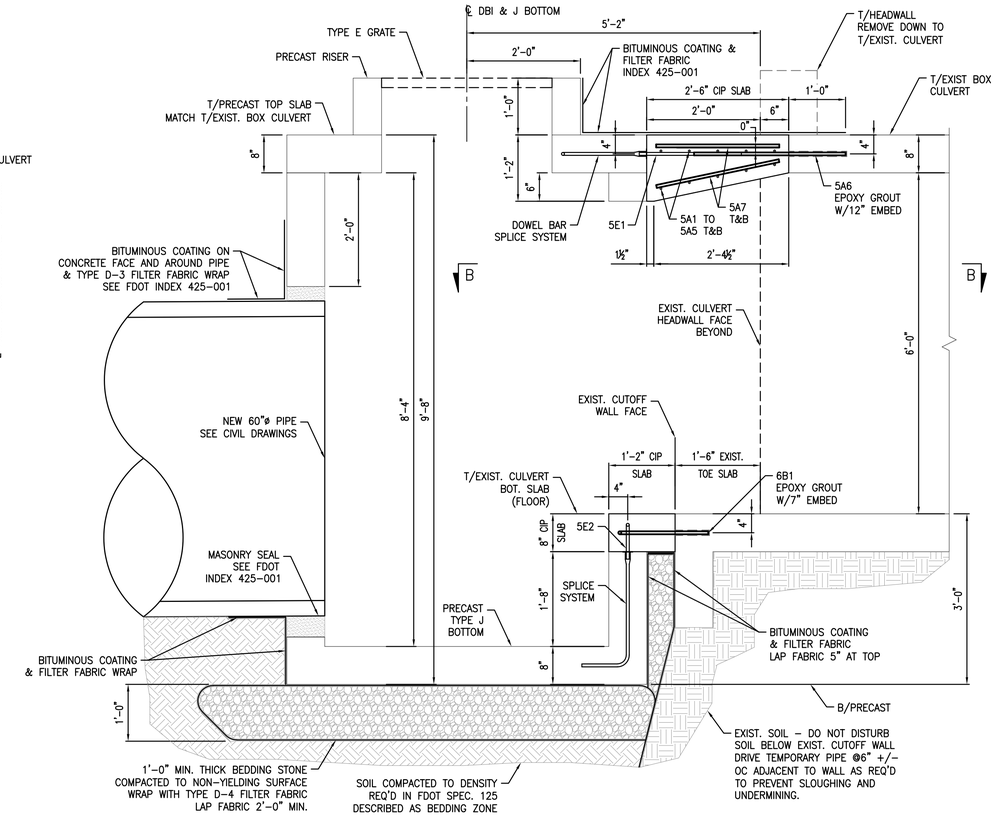
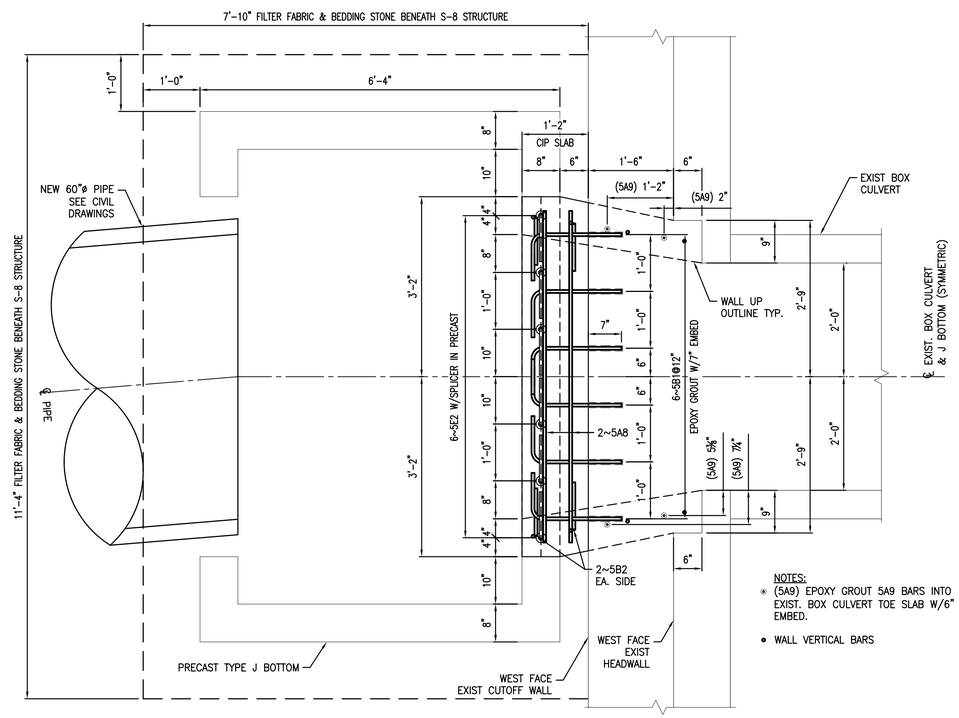


DRAINAGE STRUCTURE S-8 TOP PLAN



DRAINAGE STRUCTURE S-8 SECTION A-A

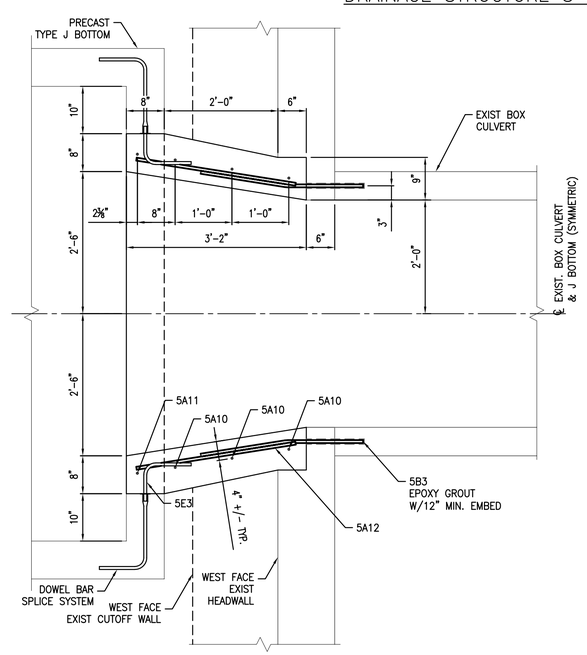


NOTES:

* (5A9) EPOXY GROUT 5A9 BARS INTO EXIST. BOX CULVERT TOE SLAB W/6" EMBED.

• WALL VERTICAL BARS

DRAINAGE STRUCTURE S-8 BOTTOM PLAN



DRAINAGE STRUCTURE S-8 SECTION B-B

NOTES:

1. REFER TO THE CIVIL DRAWINGS FOR REQUIRED PIPE INVERT ELEVATION.
2. SEE S-003 FOR SECTION C-C.
3. REFER TO S-001 FOR BILL OF REINFORCEMENT.

Rev	Date	Drawn	Description	Ch'k'd	App'd

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DRAINAGE STRUCTURE DETAILS
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Bart F. Hendricks P.E.
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Dwg check			Approved		

Scale at ANSI D	Status	Rev	Security
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Drawing Number
S-002

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