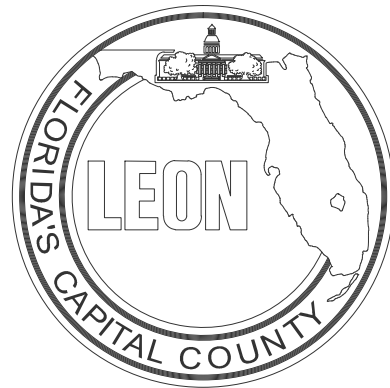


# SHARER ROAD OUTFALL STABILIZATION PROJECT

COMMISSIONERS:

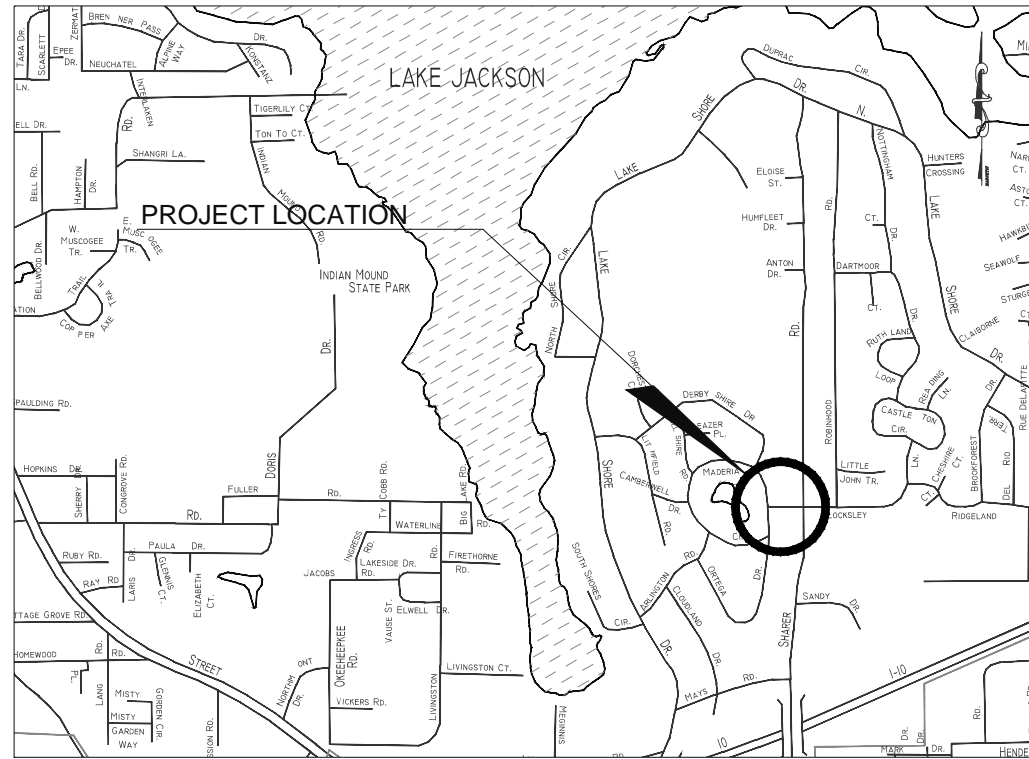
- BILL PROCTOR  
DISTRICT 1
- JANE G. SAULS  
DISTRICT 2
- JOHN E. DAILEY  
DISTRICT 3
- BRYAN DESLOGE  
DISTRICT 4
- KRISTIN DOZIER  
DISTRICT 5
- NICK MADDOX  
AT-LARGE
- AKIN AKINYEMI  
AT-LARGE



VINCENT S. LONG  
COUNTY ADMINISTRATOR  
HERBERT W. A. THIELE  
COUNTY ATTORNEY  
KATHERINE G. BURKE, P.E.  
DIRECTOR OF ENGINEERING SERVICES

## PLANS INDEX

SHEET #	SHEET DESCRIPTION
1	COVER SHEET
2	BASIN MAP
3	GENERAL NOTES AND EROSION CONTROL
4	OVERALL EXISTING CONDITIONS
5	EXISTING CONDITIONS
6	NATURAL FEATURES MAP
7	TREE PROTECTION AND EROSION CONTROL PLAN
8	DEMOLITION PLAN
9	PLAN & PROFILE - STA 0+00 TO 5+00
10	PLAN & PROFILE - STA 5+00 TO 9+00
11	DRAINAGE PLAN AND DETAILS
12	GRADING PLAN
13	DETAILS
14	CROSS SECTIONS - STA: 1+00 TO 4+80
15	CROSS SECTIONS - STA: 5+00 TO 8+60



LOCATION MAP

## LEON COUNTY Department of Public Works Division of Engineering Services

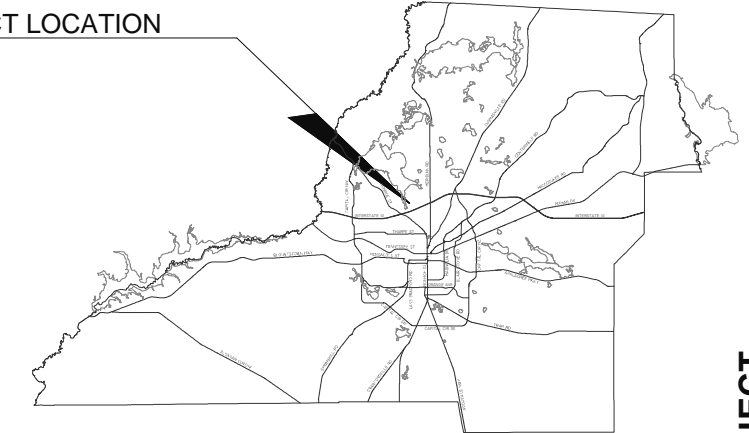
Public Works Center  
2280 Miccosukee Road, Tallahassee, FL 32308-5310  
Ph: (850)606-1500 Fax: (850)606-1501  
Web: <http://www.leoncountyfl.gov>

PLANS PREPARED BY:



1625 Summit Lake Drive, Suite 200  
Tallahassee, Florida 32317  
Phone: (850) 574-3197  
Certificate of Authorization # 000002

PROJECT LOCATION



VICINITY MAP

GENERAL LEGEND		
---	BT-	EXISTING BURIED TELEPHONE WIRE
---	E-	EXISTING OVERHEAD WIRE
---	X-	EXISTING FENCE
---	WTR	EXISTING WATER LINE
---	200	PROPOSED CONTOUR
---	100	EXISTING CONTOUR
---	GAS	EXISTING GAS MAIN
---	SS-	EXISTING SANITARY SEWER
---		PROPERTY LINE
---		RIGHT-OF-WAY
---		EASEMENT
---		DRAINAGE BASIN
---		LIMITS OF WETLAND
---		SILT FENCE
○		EXISTING TREES
○	RBF	REBAR FOUND
○	OPF	OPEN PIPE FOUND
○	FCM	FOUND CONCRETE MONUMENT
○	BM	BENCHMARK AS NOTED
○	WV	WATER VALVE
○	GV	GAS VALVE
○		EXISTING POWER POLE
○	LP	LIGHT POLE
○		WATER METER
○		WETLAND MARKER
○	FCM	FOUND CONCRETE MONUMENT
○	FIP	FOUND IRON PIPE
○	R.O.W.	RIGHT OF WAY
○	L	ARC LENGTH
○	CH	CHORD
○	(P)	PER PLAT PROVIDED BY CLIENT
○	(D)	PER DEED PROVIDED BY CLIENT
○	(M)	AS MEASURED
○	FFE	FINISHED FLOOR ELEVATION
○	INV	INVERT ELEVATION
○	RCP	REINFORCED CONCRETE PIPE
○	EL	ELEVATION
○	EXIST.	EXISTING
○	CMP	CORRUGATED METAL PIPE
○	UE	UNDERGROUND ELECTRIC
○	OH	OVERHEAD ELECTRIC
○	CONC	CONCRETE
○	C.O.T.	CITY OF TALLAHASSEE
○	(TYP)	TYPICAL
○	CMP	CORRUGATED METAL PIPE
○	WM	WATER MAN
○	PE	POLYETHYLENE PIPE
○	OR	OFFICIAL RECORD
○	PG	PAGE
○	ROW (R/W)	RIGHT OF WAY
○	(S-1)	STRUCTURE NO.
○		PROPOSED CONCRETE
○		PROPOSED ASPHALT
○		PROPOSED BERM

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DESIGN STANDARDS  
DATED JANUARY 2010, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE  
CONSTRUCTION DATED 2010, AS AMENDED BY CONTRACT DOCUMENTS.

VERTICAL DATUM: NAVD88

REVISIONS			
NO.	DESCRIPTION	BY	DATE

FOR CONSTRUCTION

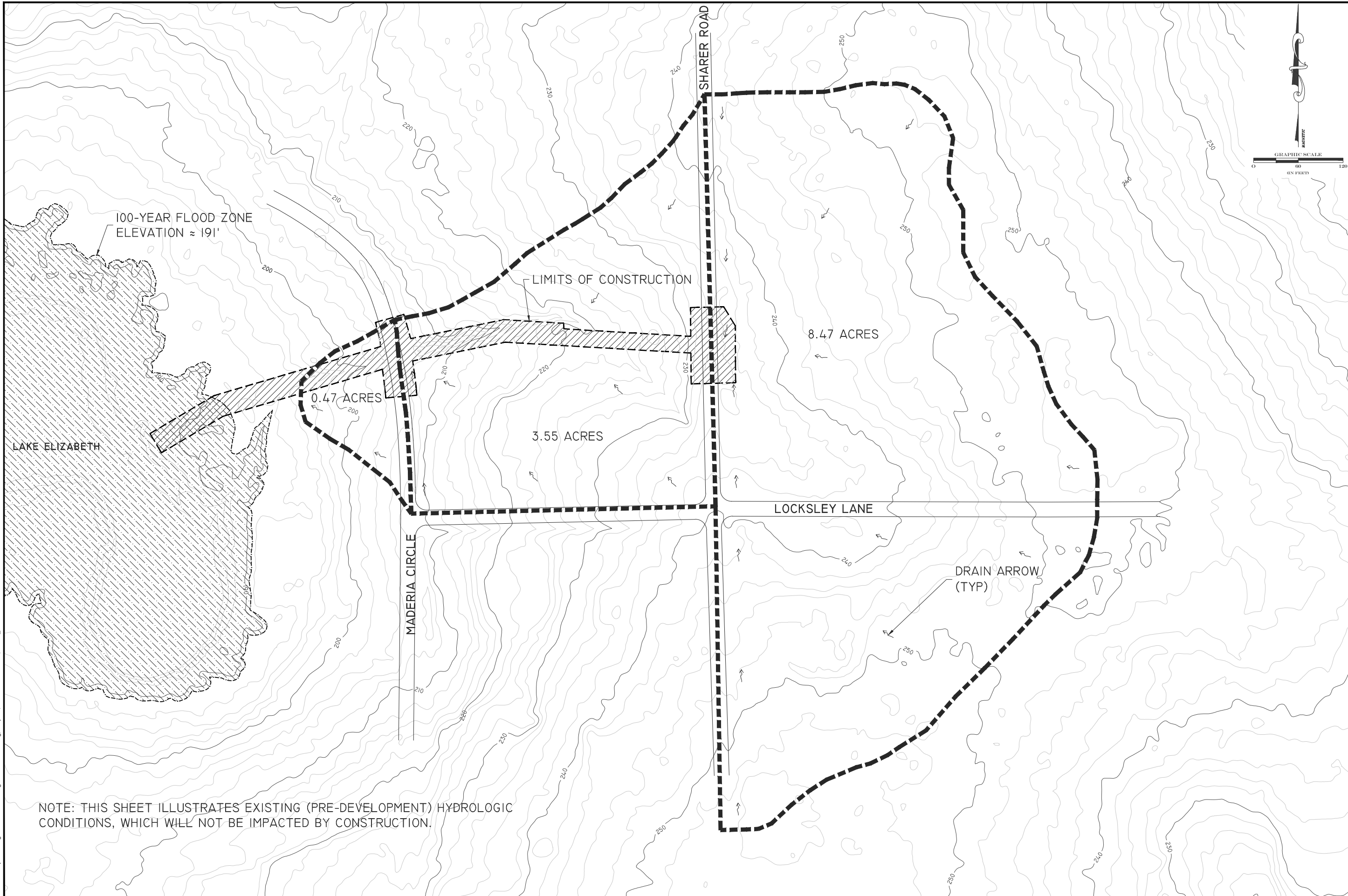
ENGINEER OF RECORD:

JENNIFER F. VRYNIOS, P.E.  
Florida P.E. Registration No. 66045

Date: 09/12/11

SHARER ROAD OUTFALL STABILIZATION PROJECT

L:\Civil Group\Drawings\Sharer Road\dwg\Sheets\Basin.dwg, Sep 21, 2011 - 11:48:13AM - Adam\_Collins

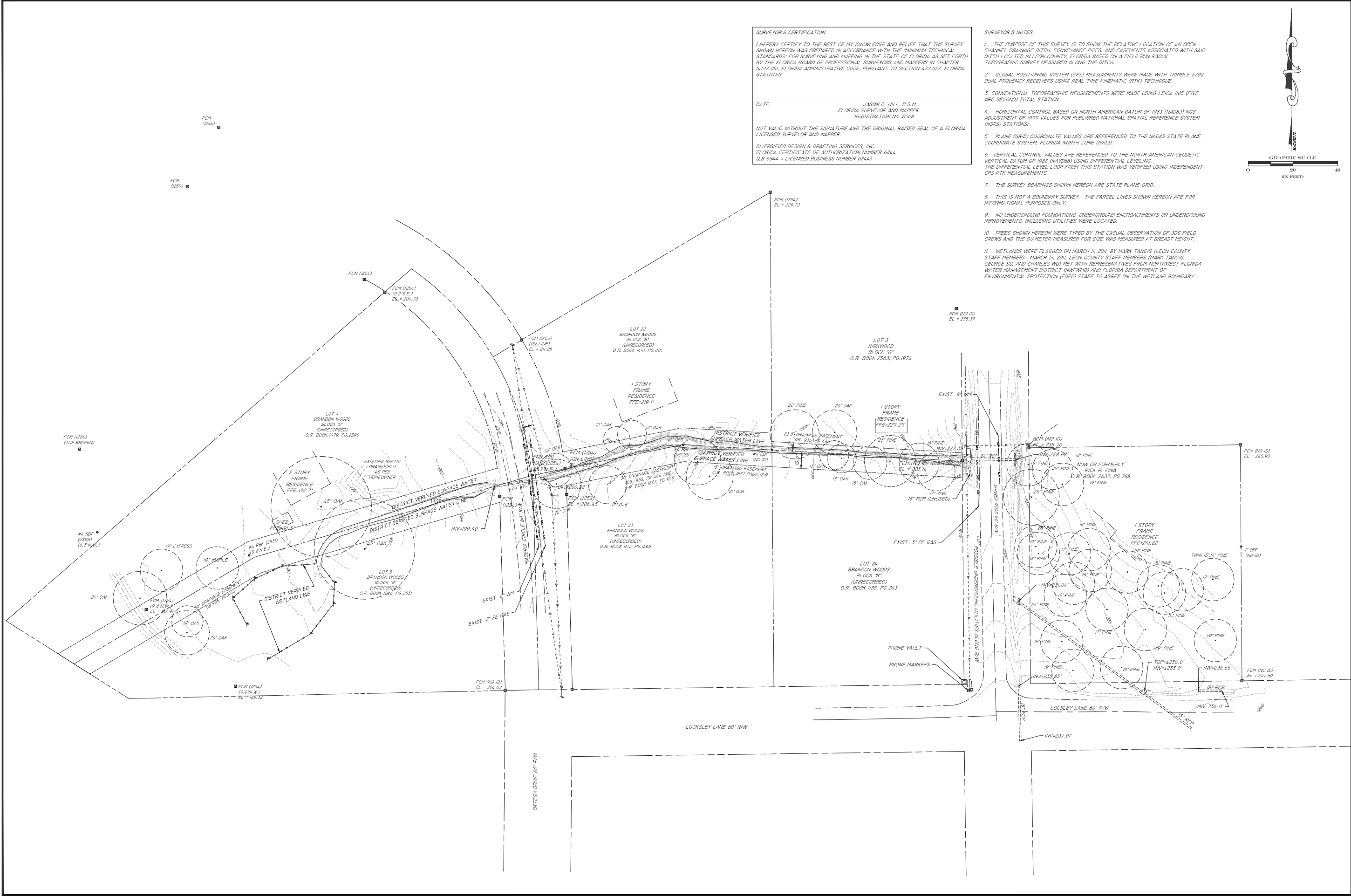


NOTE: THIS SHEET ILLUSTRATES EXISTING (PRE-DEVELOPMENT) HYDROLOGIC CONDITIONS, WHICH WILL NOT BE IMPACTED BY CONSTRUCTION.

<b>URS</b> 1625 SUMMIT LAKE DRIVE TALLAHASSEE, FL 32317 PH: (850) 574-3197 FAX: (850) 402-6490 CERTIFICATE OF AUTHORIZATION # 000002	
<b>PROJECT NAME:</b> SHARER ROAD OUTFALL STABILIZATION PROJECT	<b>CLIENT NAME:</b> LEON COUNTY, FLORIDA DEPARTMENT OF PUBLIC WORKS
<b>DATE:</b> 09/12/11	<b>DESIGN:</b> ATC
<b>DRAWN:</b> ATC	<b>CHECKED:</b> JFW
<b>PROJECT #:</b> 12806067	
<b>E.O.R.:</b> JENNIFER F. VRYNIOS FL REG # 66045	
<b>SHEET TITLE:</b> BASIN MAP	
<b>SHEET NUMBER:</b> <b>2 OF 15</b>	



L:\CIVIL GROUP\DRAWINGS\SHARER ROAD\DWG\SHEETS\EXISTING CONDITIONS.DWG, SEP 21, 2011 - 11:48:25AM, ADAM COLLINS



**SURVEYOR'S CERTIFICATION:**

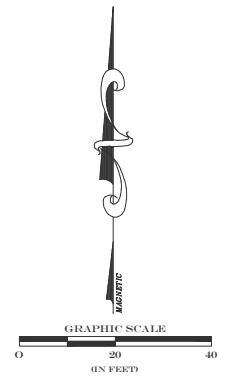
I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE SURVEY SHOWN HEREON WAS PREPARED IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS FOR SURVEYING AND MAPPING IN THE STATE OF FLORIDA AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17.051, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

DATE: JASON D. HILL, P.S.M.  
FLORIDA SURVEYOR AND MAPPER  
REGISTRATION NO. 6008

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

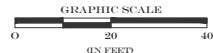
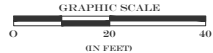
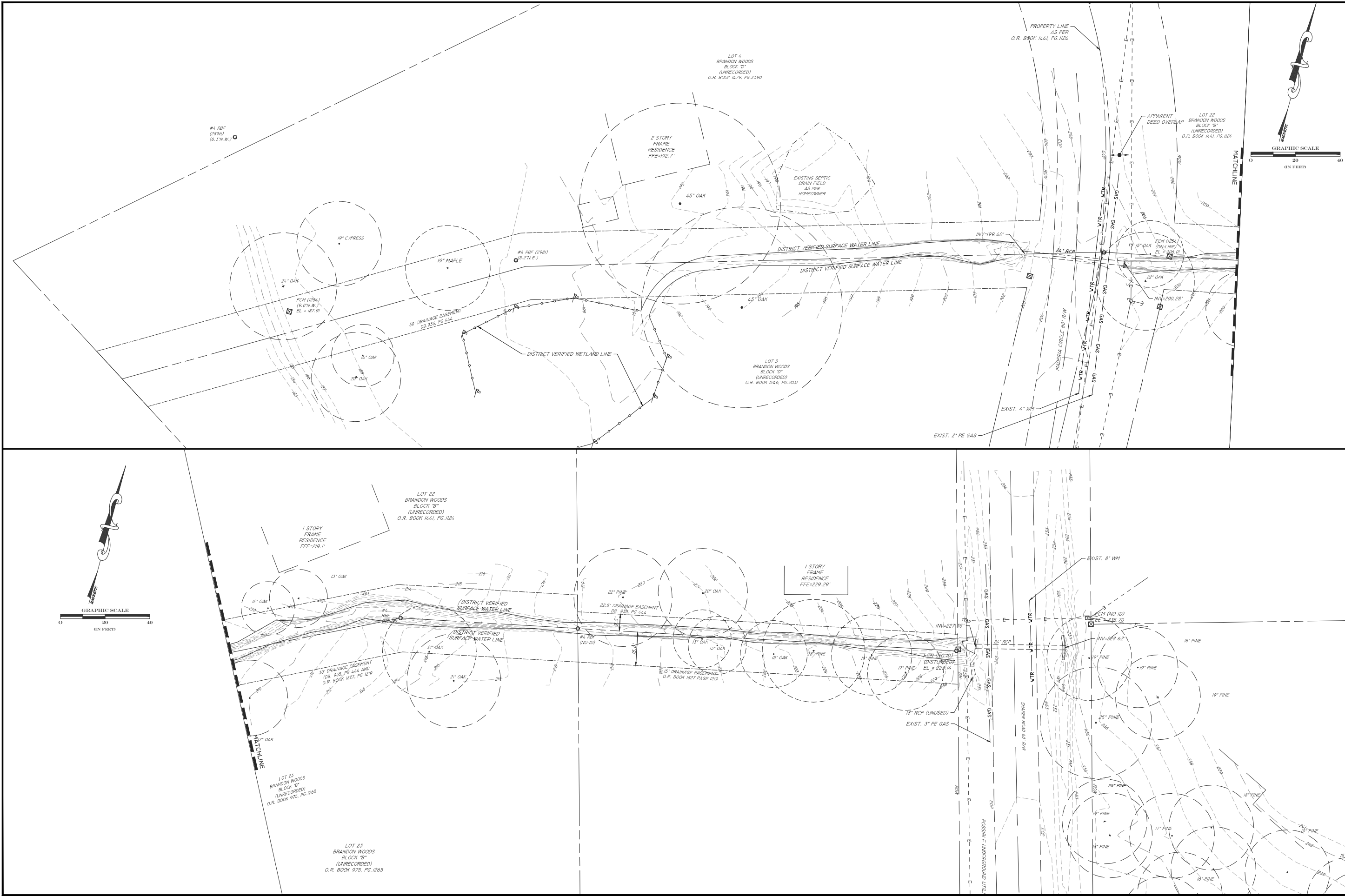
DIVERSIFIED DESIGN & DRAFTING SERVICES, INC.  
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER 6844  
(L.B. 6844 = LICENSED BUSINESS NUMBER 6844)

- SURVEYOR'S NOTES:**
- THE PURPOSE OF THIS SURVEY IS TO SHOW THE RELATIVE LOCATION OF AN OPEN CHANNEL, DRAINAGE DITCH, CONVEYANCE PIPES, AND EASEMENTS ASSOCIATED WITH SAID DITCH LOCATED IN LEON COUNTY, FLORIDA BASED ON A FIELD RUN RADIAL TOPOGRAPHIC SURVEY MEASURED ALONG THE DITCH.
  - GLOBAL POSITIONING SYSTEM (GPS) MEASUREMENTS WERE MADE WITH TRIMBLE 5700 DUAL FREQUENCY RECEIVERS USING REAL TIME KINEMATIC (RTK) TECHNIQUE.
  - CONVENTIONAL TOPOGRAPHIC MEASUREMENTS WERE MADE USING LEICA 105 (FIVE ARC SECOND) TOTAL STATION.
  - HORIZONTAL CONTROL BASED ON NORTH AMERICAN DATUM OF 1983 (NAD83) NGS ADJUSTMENT OF 1999 VALUES FOR PUBLISHED NATIONAL SPATIAL REFERENCE SYSTEM (NSRS) STATIONS.
  - PLANE (GRID) COORDINATE VALUES ARE REFERENCED TO THE NAD83 STATE PLANE COORDINATE SYSTEM, FLORIDA NORTH ZONE (0903).
  - VERTICAL CONTROL VALUES ARE REFERENCED TO THE NORTH AMERICAN GEODETIC VERTICAL DATUM OF 1988 (NAVD88) USING DIFFERENTIAL LEVELING. THE DIFFERENTIAL LEVEL LOOP FROM THIS STATION WAS VERIFIED USING INDEPENDENT GPS RTK MEASUREMENTS.
  - THE SURVEY BEARINGS SHOWN HEREON ARE STATE PLANE GRID.
  - THIS IS NOT A BOUNDARY SURVEY. THE PARCEL LINES SHOWN HEREON ARE FOR INFORMATIONAL PURPOSES ONLY.
  - NO UNDERGROUND FOUNDATIONS, UNDERGROUND ENCROACHMENTS OR UNDERGROUND IMPROVEMENTS, INCLUDING UTILITIES WERE LOCATED.
  - TREES SHOWN HEREON WERE TYPED BY THE CASUAL OBSERVATION OF JDS FIELD CREWS AND THE DIAMETER MEASURED FOR SIZE WAS MEASURED AT BREAST HEIGHT.
  - WETLANDS WERE FLAGGED ON MARCH 11, 2011, BY MARK TANCIG (LEON COUNTY STAFF MEMBER). MARCH 31, 2011, LEON COUNTY STAFF MEMBERS (MARK TANCIG, GEORGE SU AND CHARLES WU) MET WITH REPRESENTATIVES FROM NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT (NWFWD) AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) STAFF TO AGREE ON THE WETLAND BOUNDARY.



<b>DURS</b>	1625 SUMMIT LAKE DRIVE TALLAHASSEE, FL 32317 PH: (850) 574-3197 FAX: (850) 402-6490 CERTIFICATE OF AUTHORIZATION # 000002			
<b>PROJECT NAME:</b> SHARER ROAD OUTFALL STABILIZATION PROJECT		<b>CLIENT NAME:</b> LEON COUNTY, FLORIDA DEPARTMENT OF PUBLIC WORKS		
<b>DATE:</b>	09/12/11	<b>DESIGN:</b>	ATC	
<b>DRAWN:</b>	ATC	<b>CHECKED:</b>	GEM	
<b>PROJECT #:</b>	12806067	<b>PROJECT #:</b>	JFV	
<b>E.O.R.:</b> JENNIFER F. VRYNIOS FL. REG # 66045		<b>SHEET TITLE:</b> OVERALL EXISTING CONDITIONS		
<b>SHEET NUMBER</b> 4 OF 15				

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NO.	DATE	BY	DESCRIPTION OF REVISION

**URS**  
 1625 SUMMIT LAKE DRIVE  
 TALLAHASSEE, FL 32317  
 PH: (850) 574-3197 FAX: (850) 402-6490  
 CERTIFICATE OF AUTHORIZATION # 000002

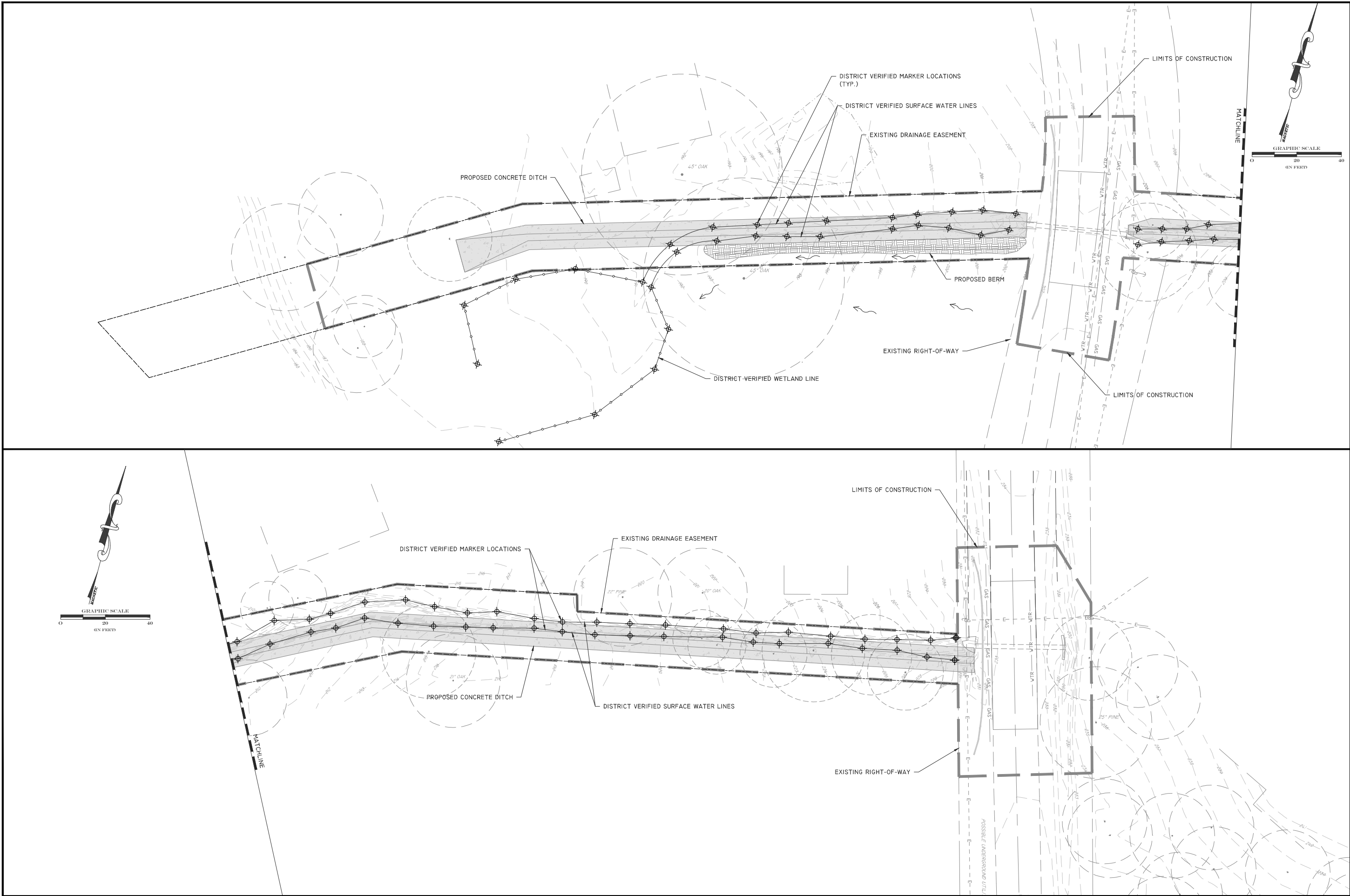
PROJECT NAME  
 SHARER ROAD OUTFALL  
 STABILIZATION PROJECT

CLIENT NAME  
 LEON COUNTY, FLORIDA  
 DEPARTMENT OF PUBLIC WORKS

DATE:	09/12/11
DESIGN:	ATC
DRAWN:	ATC
CHECKED:	GEM
PROJECT #:	JFV
	12806067

E.O.R.	JENNIFER F. VRYNIOS
FL. REG #	66045
SHEET TITLE	EXISTING CONDITIONS
SHEET NUMBER	5 OF 15

L:\CIVIL GROUP\DRAWINGS\SHARER ROAD\DWG\SHEETS\NATURAL FEATURES MAP.DWG, SEP 21, 2011 - 11:48:42AM, ADAM\_COLLINS



NO.	DATE	BY	DESCRIPTION OF REVISION

**URS**  
 1625 SUMMIT LAKE DRIVE  
 TALLAHASSEE, FL 32317  
 PH: (850) 574-3197 FAX: (850) 402-6490  
 CERTIFICATE OF AUTHORIZATION # 000002

**PROJECT NAME**  
 SHARER ROAD OUTFALL  
 STABILIZATION PROJECT

**CLIENT NAME**  
 LEON COUNTY, FLORIDA  
 DEPARTMENT OF PUBLIC WORKS

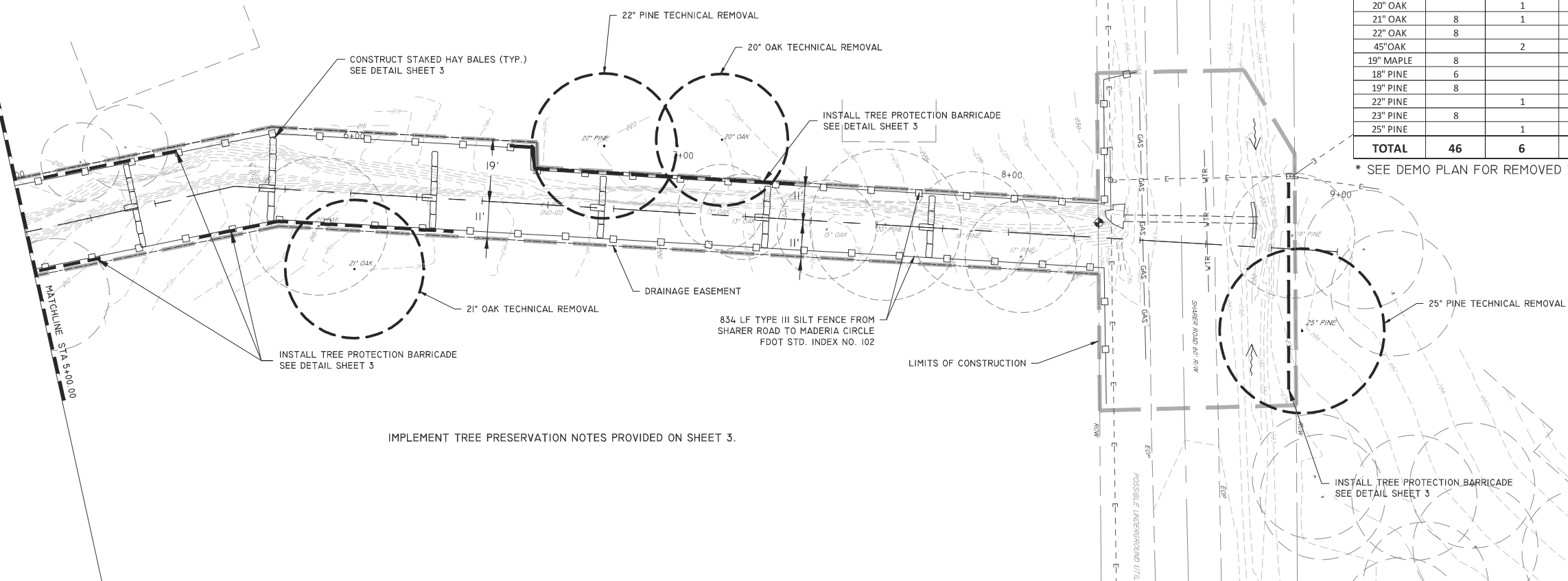
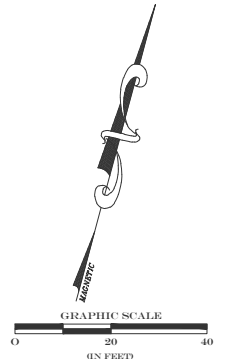
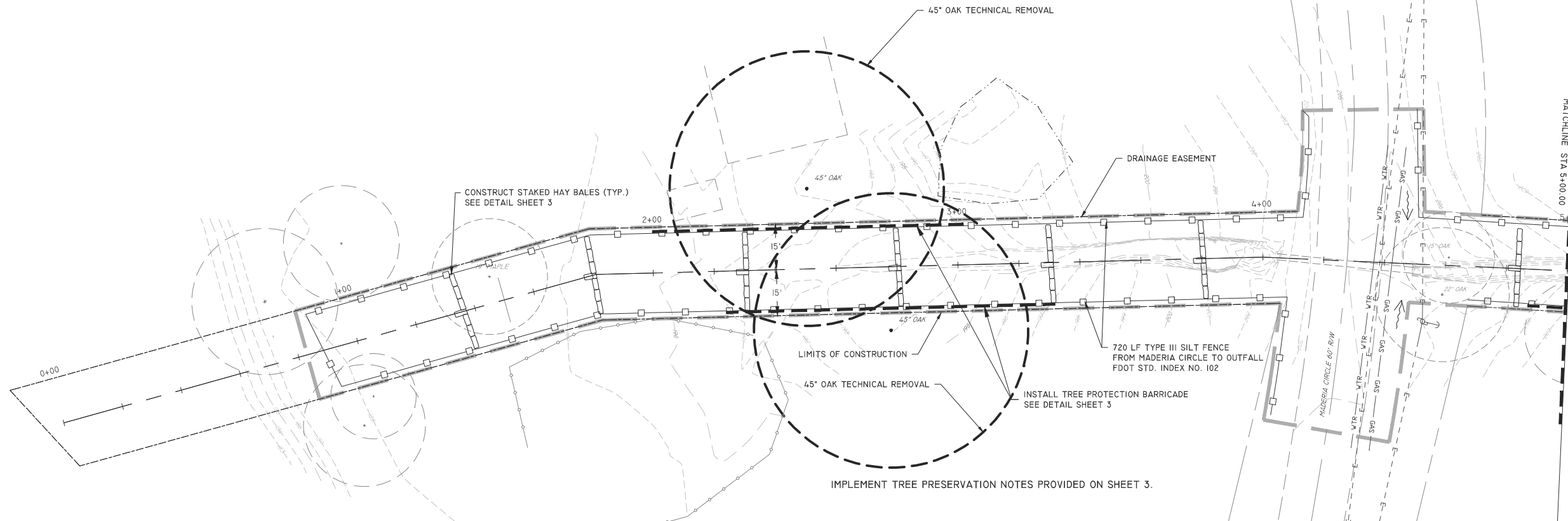
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<b>DESIGN:</b>	ATC
<b>DRAWN:</b>	ATC
<b>CHECKED:</b>	GEM
	JFV
<b>PROJECT #</b>	12806067

**E.O.R.**  
 JENNIFER F. VRYNIOS  
 FL REG # 66045

**SHEET TITLE**  
 NATURAL  
 FEATURES MAP

**SHEET NUMBER**  
 6 OF 15

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**TREE DEBIT/CREDIT TABLE**

TREE DESCRIPTION	TREE DEBITS	NO. TECH. REMOVALS	NO. TO REMOVE	TREE CREDITS
20" OAK		1		
21" OAK	8	1	1	
22" OAK	8		1	
45" OAK		2		
19" MAPLE	8		1	
18" PINE	6		1	
19" PINE	8		1	
22" PINE		1		
23" PINE	8		1	
25" PINE		1		
<b>TOTAL</b>	<b>46</b>	<b>6</b>	<b>6</b>	<b>0</b>

\* SEE DEMO PLAN FOR REMOVED TREES

NO.	DATE	BY	DESCRIPTION OF REVISION

**URS**  
 1625 SUMMIT LAKE DRIVE  
 TALLAHASSEE, FL 32317  
 PH: (850) 574-3197 FAX: (850) 402-6490  
 CERTIFICATE OF AUTHORIZATION # 000002

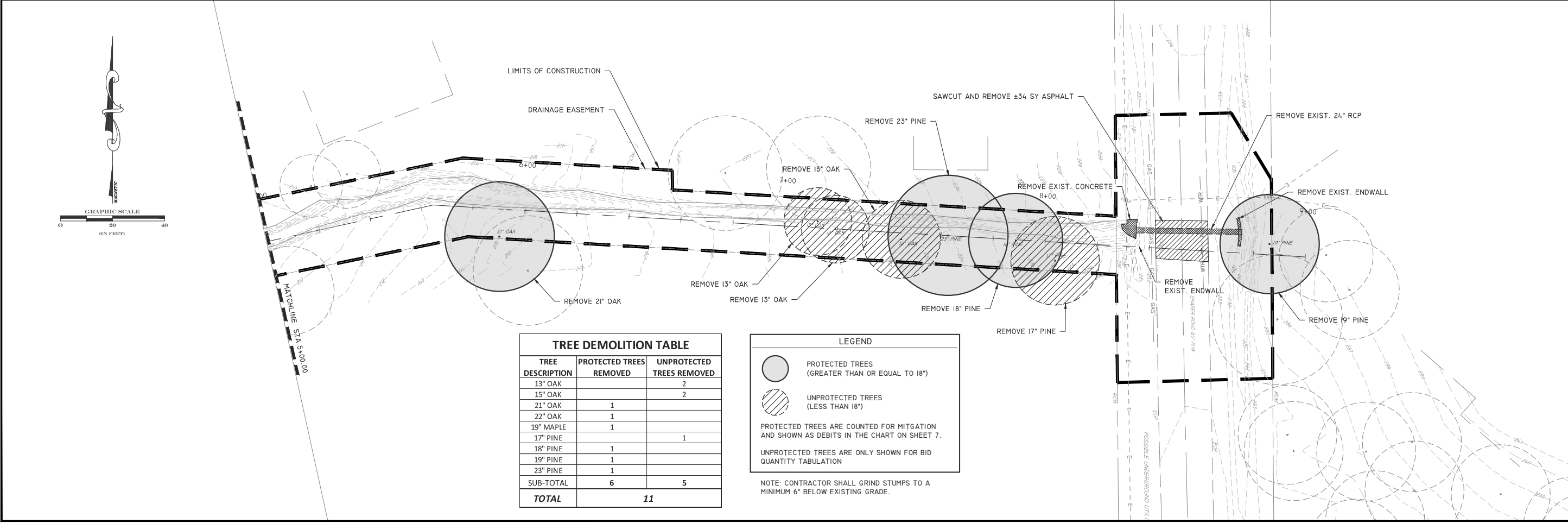
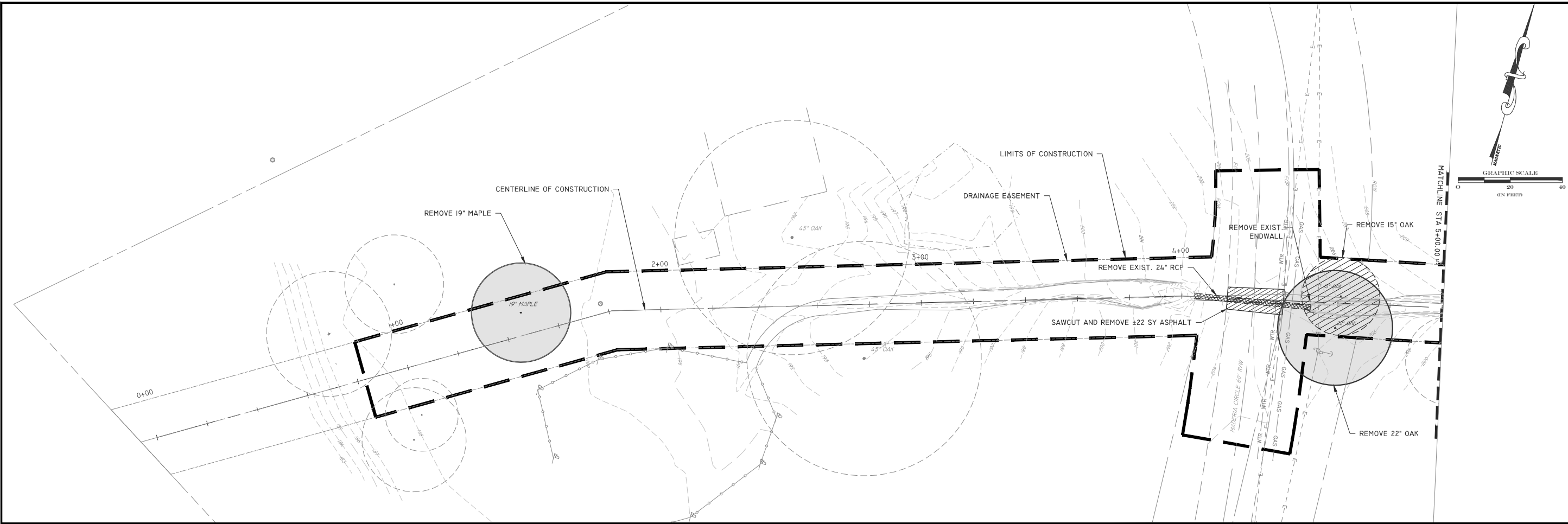
PROJECT NAME: SHARER ROAD OUTFALL STABILIZATION PROJECT  
 CLIENT NAME: LEON COUNTY, FLORIDA DEPARTMENT OF PUBLIC WORKS

DATE: 09/12/11  
 DESIGN: ATC  
 DRAWN: ATC  
 CHECKED: GEM  
 PROJECT #: 12806067

E.O.R.  
 JENNIFER F. VRYNIOS  
 FL REG # 66045  
 SHEET TITLE  
 TREE PROTECTION AND EROSION CONTROL PLAN

SHEET NUMBER  
**7 OF 15**

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TREE DEMOLITION TABLE		
TREE DESCRIPTION	PROTECTED TREES REMOVED	UNPROTECTED TREES REMOVED
13" OAK		2
15" OAK		2
21" OAK	1	
22" OAK	1	
19" MAPLE	1	
17" PINE		1
18" PINE	1	
19" PINE	1	
23" PINE	1	
SUB-TOTAL	6	5
<b>TOTAL</b>		<b>11</b>

**LEGEND**

- PROTECTED TREES (GREATER THAN OR EQUAL TO 18")
- UNPROTECTED TREES (LESS THAN 18")

PROTECTED TREES ARE COUNTED FOR MITIGATION AND SHOWN AS DEBITS IN THE CHART ON SHEET 7.

UNPROTECTED TREES ARE ONLY SHOWN FOR BID QUANTITY TABULATION

NOTE: CONTRACTOR SHALL GRIND STUMPS TO A MINIMUM 6" BELOW EXISTING GRADE.

NO.	DATE	BY	DESCRIPTION OF REVISION

**URS**  
 1625 SUMMIT LAKE DRIVE  
 TALLAHASSEE, FL 32317  
 PH: (850) 574-3197 FAX: (850) 402-6490  
 CERTIFICATE OF AUTHORIZATION # 000002

**PROJECT NAME:** SHARER ROAD OUTFALL STABILIZATION PROJECT  
**CLIENT NAME:** LEON COUNTY, FLORIDA DEPARTMENT OF PUBLIC WORKS

DATE:	09/12/11
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DRAWN:	ATC
CHECKED:	GEM
PROJECT #:	JFV
	12806067

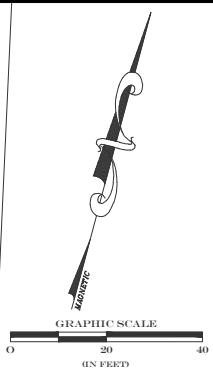
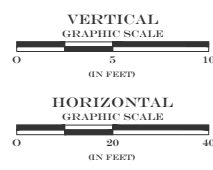
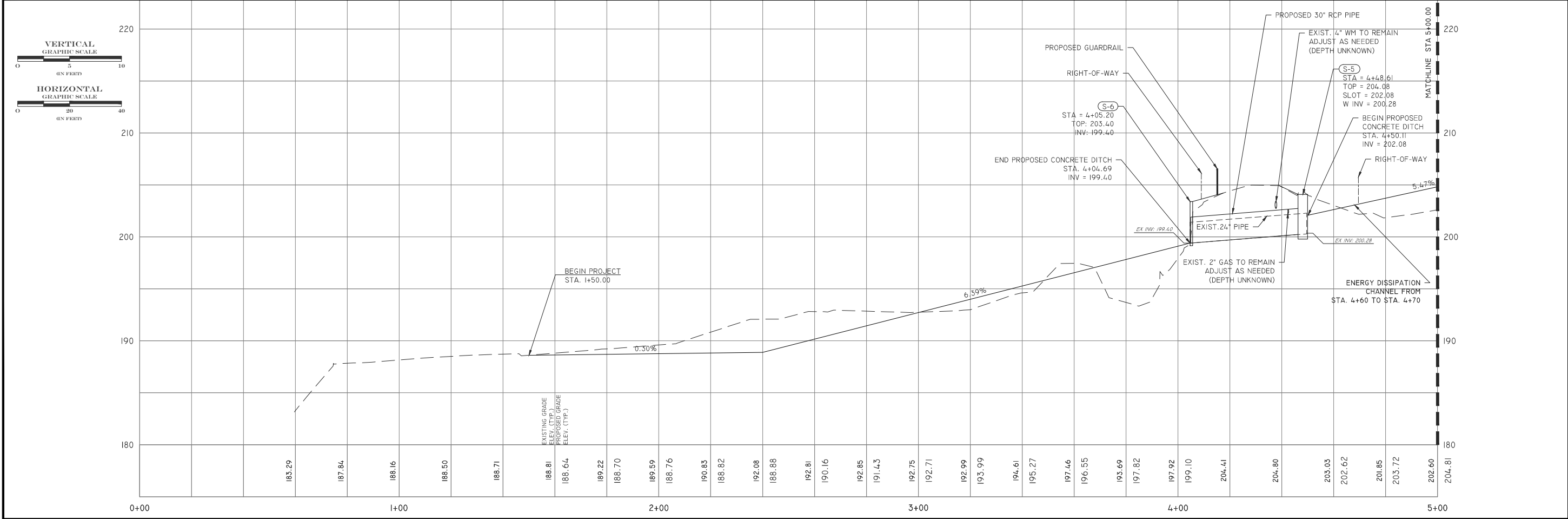
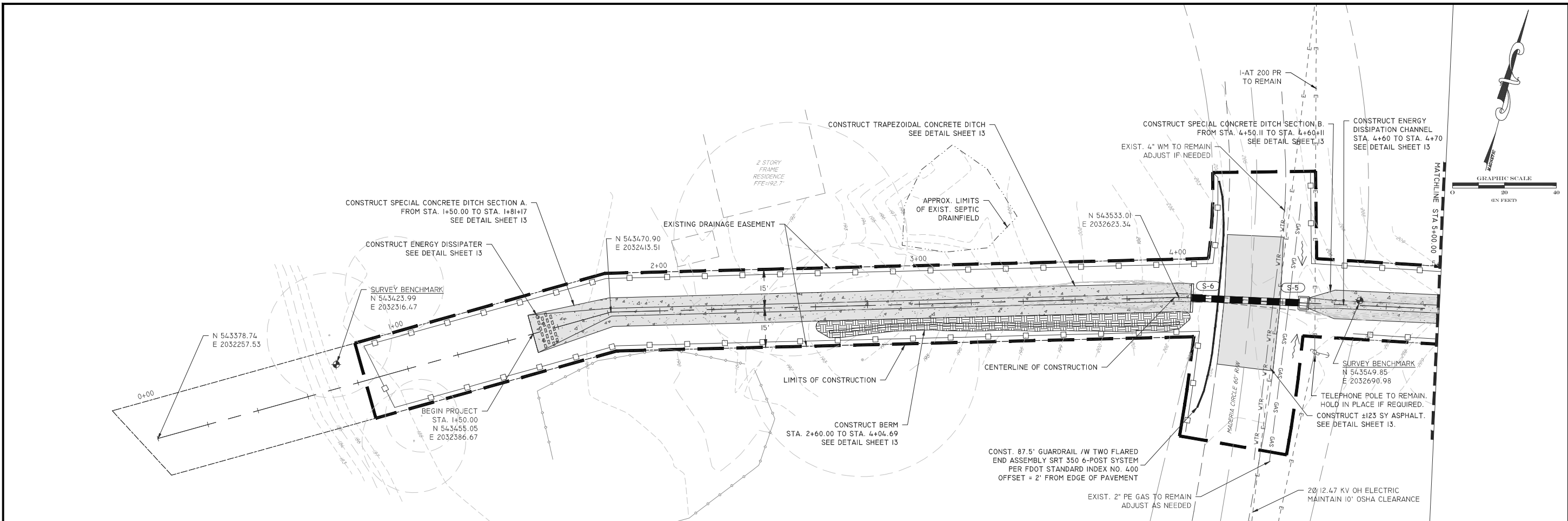
**E.O.R.:**  
 JENNIFER F. VRYNIOS  
 FL REG # 66045

**SHEET TITLE:**  
 DEMOLITION PLAN

**SHEET NUMBER:**  
 8 OF 15



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NO.	DATE	BY	DESCRIPTION OF REVISION

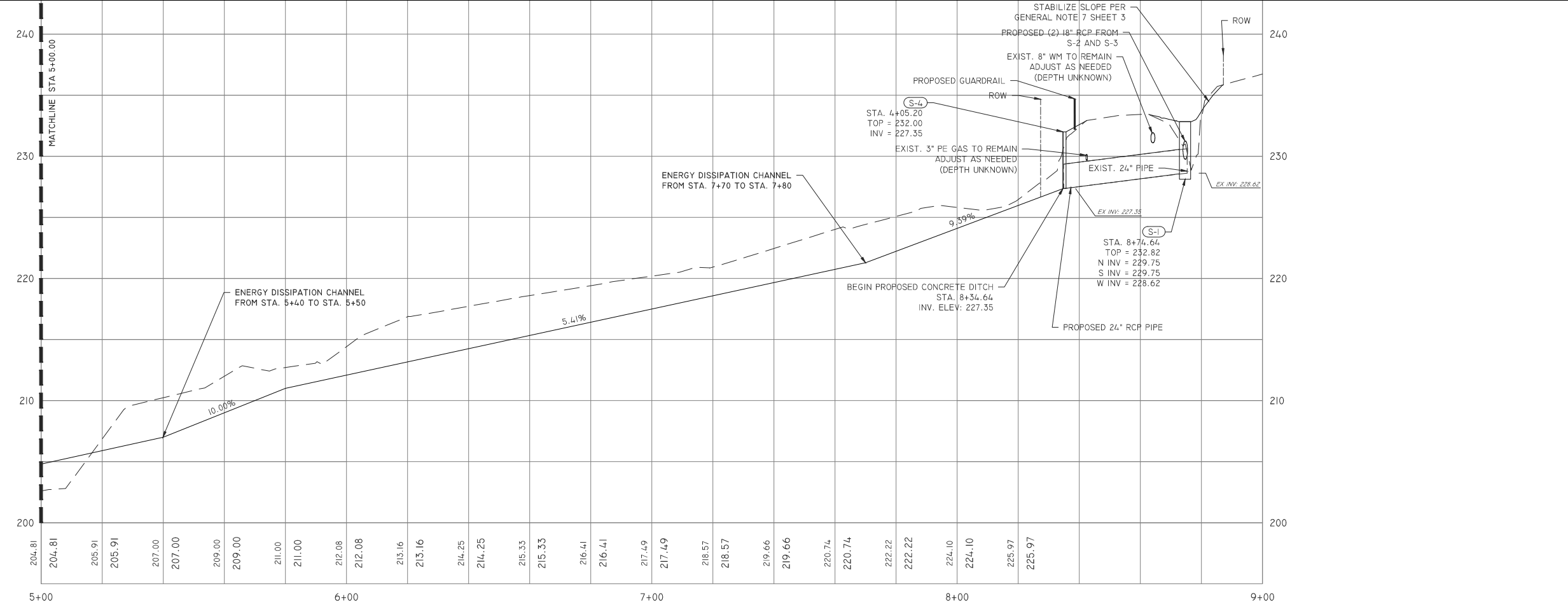
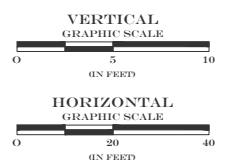
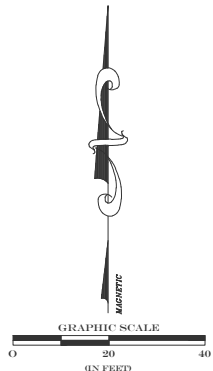
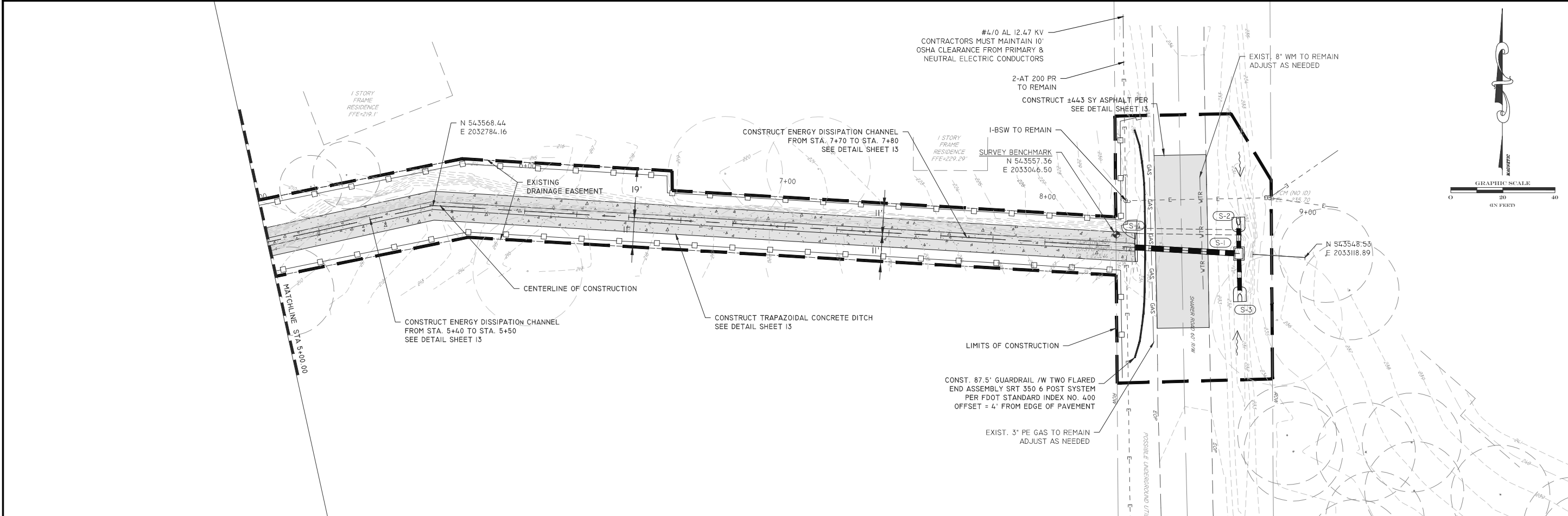
**URS**  
 1625 SUMMIT LAKE DRIVE  
 TALLAHASSEE, FL 32317  
 PH: (850) 574-3197 FAX: (850) 402-6490  
 CERTIFICATE OF AUTHORIZATION # 000002

**PROJECT NAME:** SHARER ROAD OUTFALL STABILIZATION PROJECT  
**CLIENT NAME:** LEON COUNTY, FLORIDA DEPARTMENT OF PUBLIC WORKS

<b>DATE:</b>	09/12/11
<b>DESIGN:</b>	ATC
<b>DRAWN:</b>	ATC
<b>CHECKED:</b>	GEM
<b>PROJECT #:</b>	12806067

**E.O.R.:** JENNIFER F. VRYNIOS  
**FL. REG #:** 66045  
**SHEET TITLE:** PLAN & PROFILE - STA. 0+00 TO 5+00  
**SHEET NUMBER:** 9 OF 15

L:\CIVIL GROUP\DRAWINGS\SHARER ROAD\DWG\SHEETS\28P.DWG., SEP 21, 2011 - 11:49:12AM, ADAM COLLINS



NO.	DATE	BY	DESCRIPTION OF REVISION

**URS**  
 1625 SUMMIT LAKE DRIVE  
 TALLAHASSEE, FL 32317  
 PH: (850) 574-3197 FAX: (850) 402-6490  
 CERTIFICATE OF AUTHORIZATION # 000002

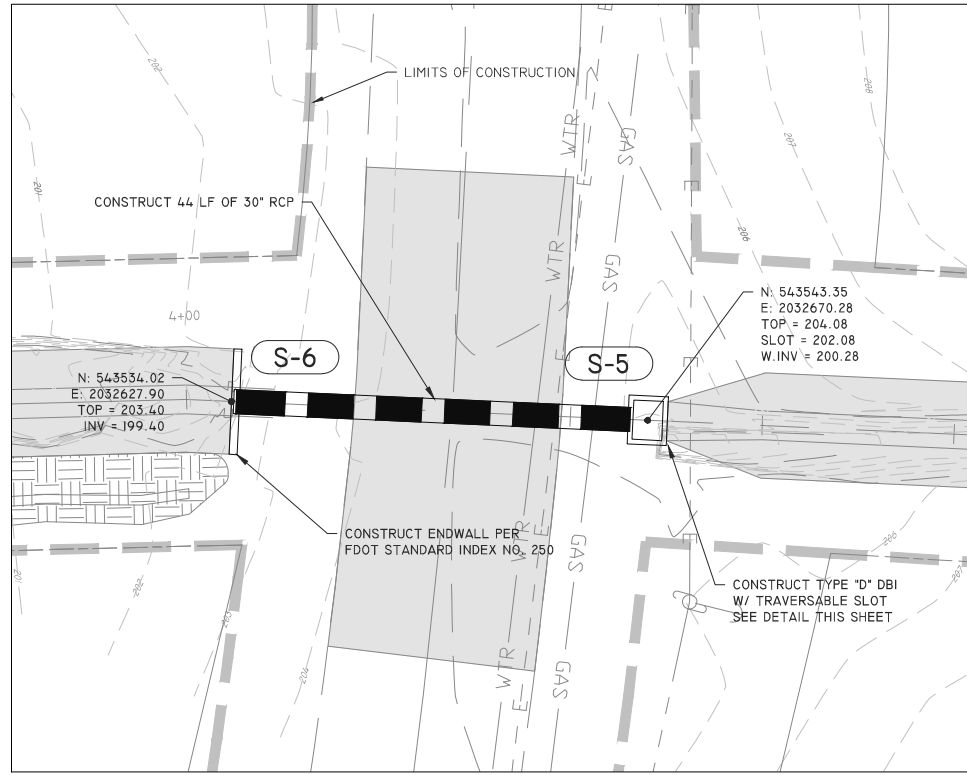
PROJECT NAME	SHARER ROAD OUTFALL STABILIZATION PROJECT
CLIENT NAME	LEON COUNTY, FLORIDA DEPARTMENT OF PUBLIC WORKS

DATE	09/12/11
DESIGN	ATC
DRAWN	ATC
CHECKED	GEM
PROJECT #	12806067

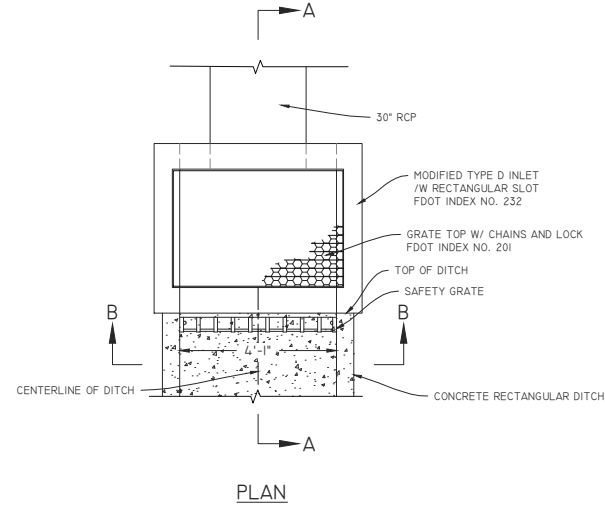
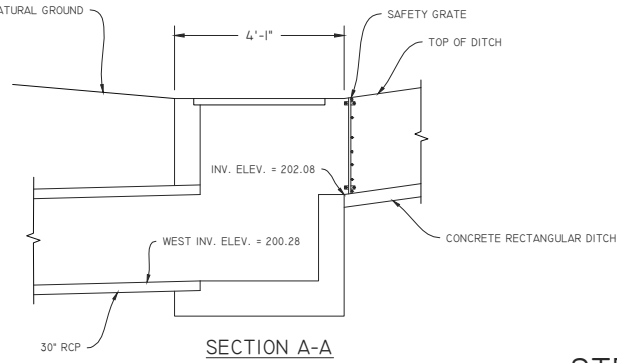
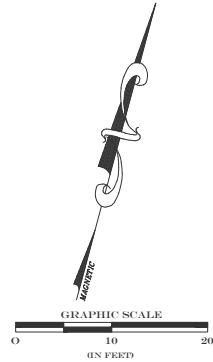
E.O.R.  
 JENNIFER F. VRYNIOS  
 FL REG # 66045

SHEET TITLE  
 PLAN & PROFILE - STA. 5+00 TO 9+00

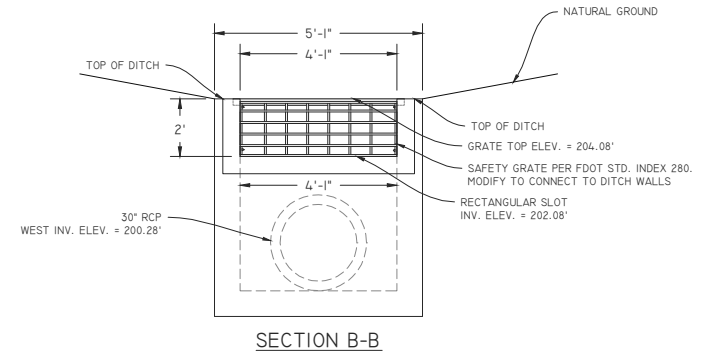
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**10 OF 15**



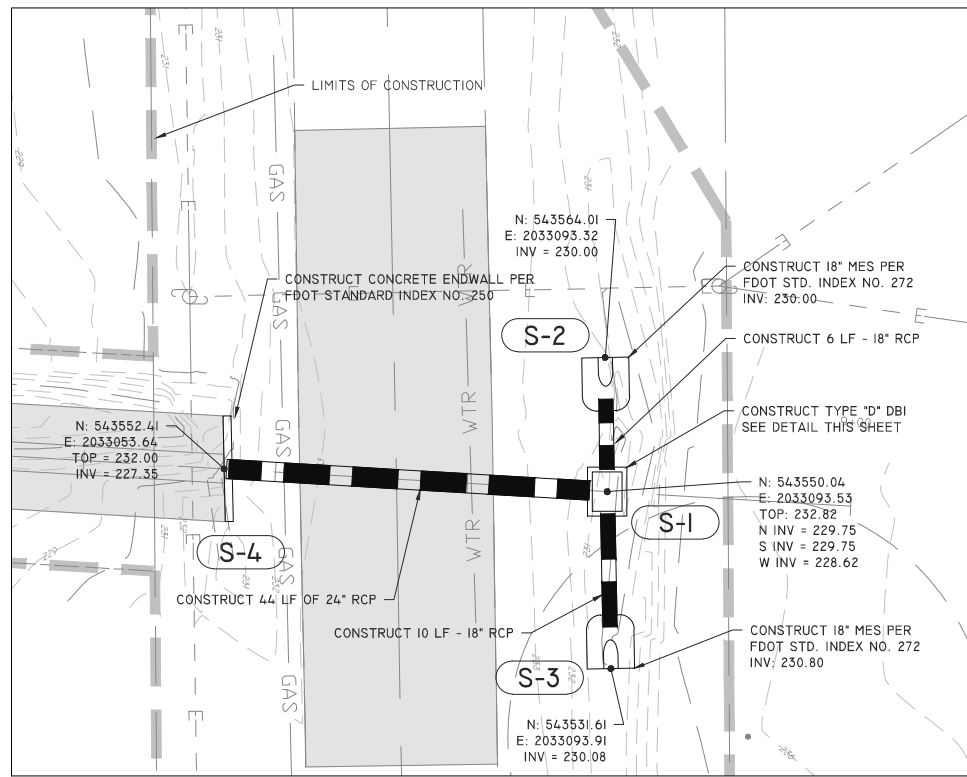
**MADERIA CIRCLE**



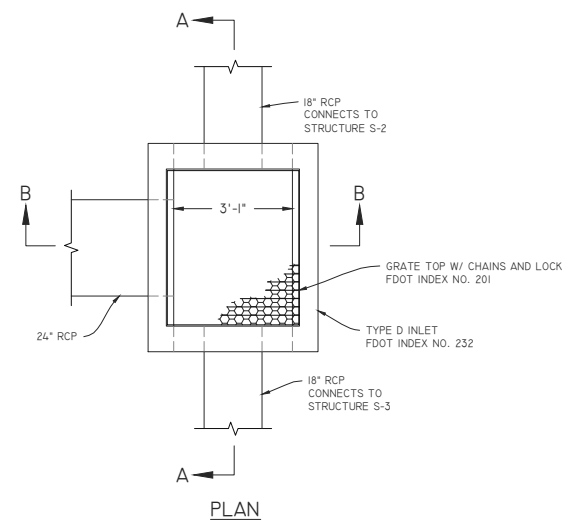
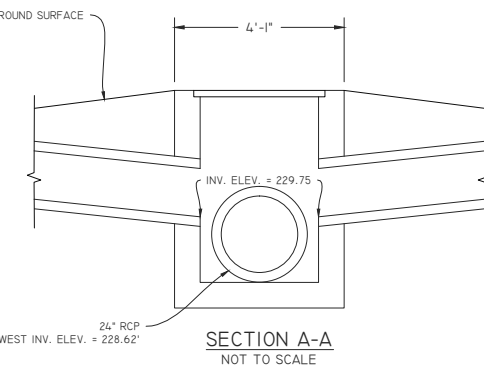
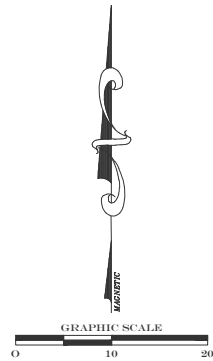
**STRUCTURE S-5 DETAIL**  
NOT TO SCALE



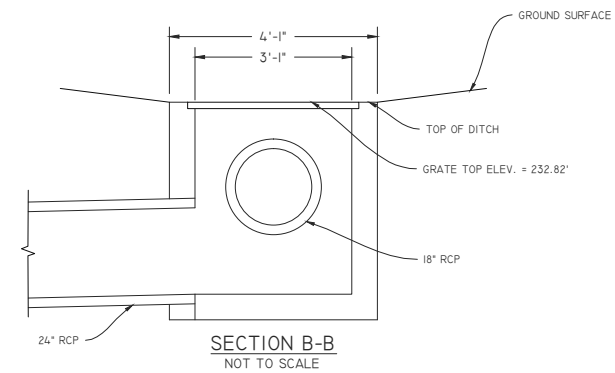
NOTE: GROUT INLET BOTTOMS TO ELIMINATE BLIND SPOTS.



**SHARER ROAD**



**STRUCTURE S-1 DETAIL**  
NOT TO SCALE



NOTE: GROUT INLET BOTTOMS TO ELIMINATE BLIND SPOTS.

NO.	DATE	BY	DESCRIPTION OF REVISION

**URS**  
1625 SUMMIT LAKE DRIVE  
TALLAHASSEE, FL 32317  
PH: (850) 574-3197 FAX: (850) 402-6490  
CERTIFICATE OF AUTHORIZATION # 000002

PROJECT NAME: SHARER ROAD OUTFALL STABILIZATION PROJECT  
CLIENT NAME: LEON COUNTY, FLORIDA DEPARTMENT OF PUBLIC WORKS

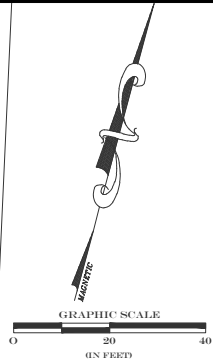
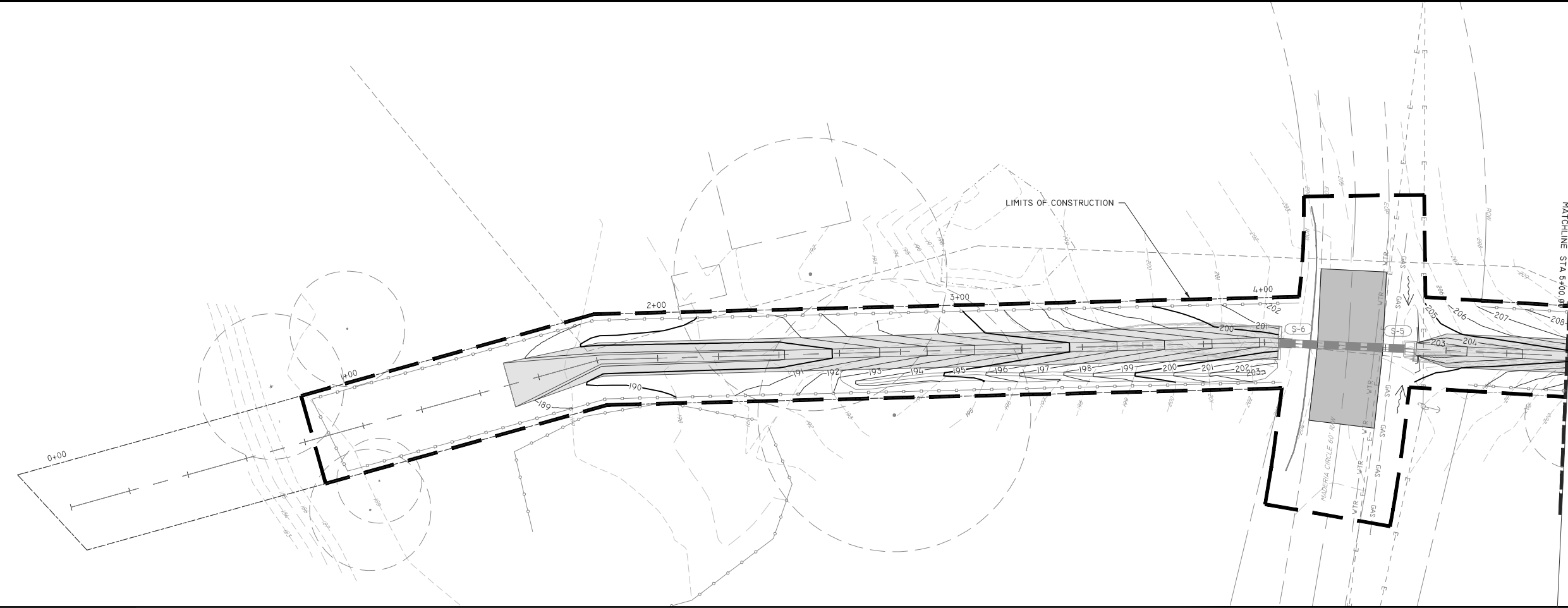
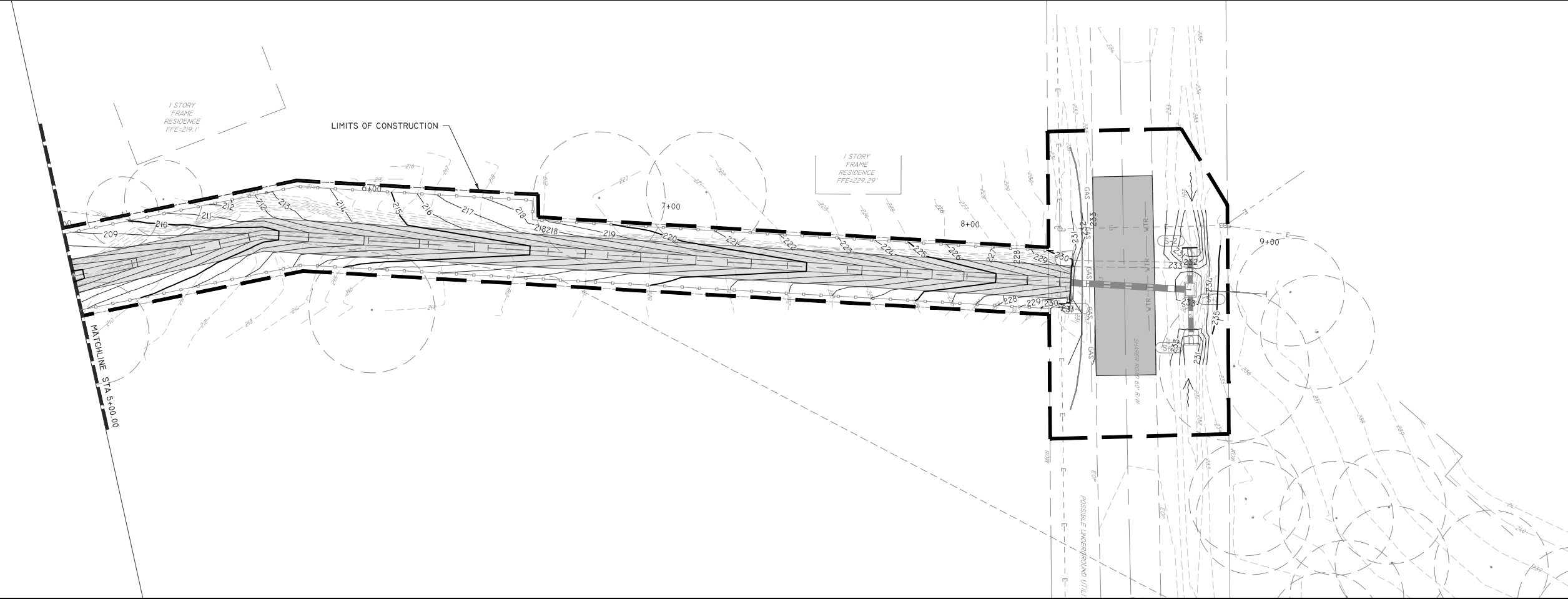
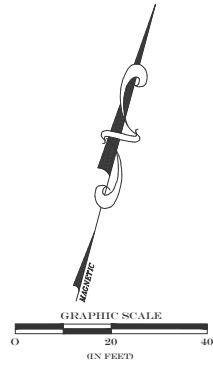
DATE:	09/12/11
DESIGN:	ATC
DRAWN:	ATC
CHECKED:	GEM
PROJECT #:	12806067

E.O.R.  
JENNIFER F. VRYNIOS  
FL REG # 66045

SHEET TITLE  
DRAINAGE PLAN AND DETAILS

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NO.	DATE	BY	DESCRIPTION OF REVISION

**URS**  
 1625 SUMMIT LAKE DRIVE  
 TALLAHASSEE, FL 32317  
 PH: (850) 574-3197 FAX: (850) 402-6490  
 CERTIFICATE OF AUTHORIZATION # 000002

PROJECT NAME  
 SHARER ROAD OUTFALL  
 STABILIZATION PROJECT

CLIENT NAME  
 LEON COUNTY, FLORIDA  
 DEPARTMENT OF PUBLIC WORKS

DATE:	09/12/11
DESIGN:	ATC
DRAWN:	ATC
CHECKED:	JFV
PROJECT #:	12806067

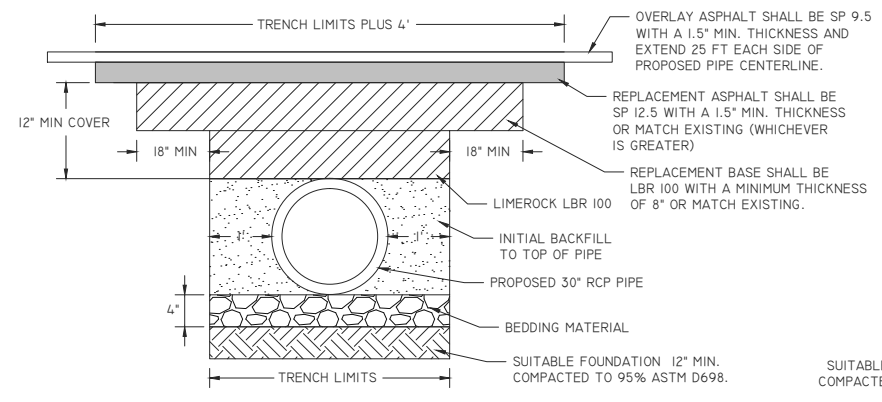
E.O.R.  
 JENNIFER F. VRYNIOS  
 FL REG # 66045

SHEET TITLE  
 GRADING PLAN

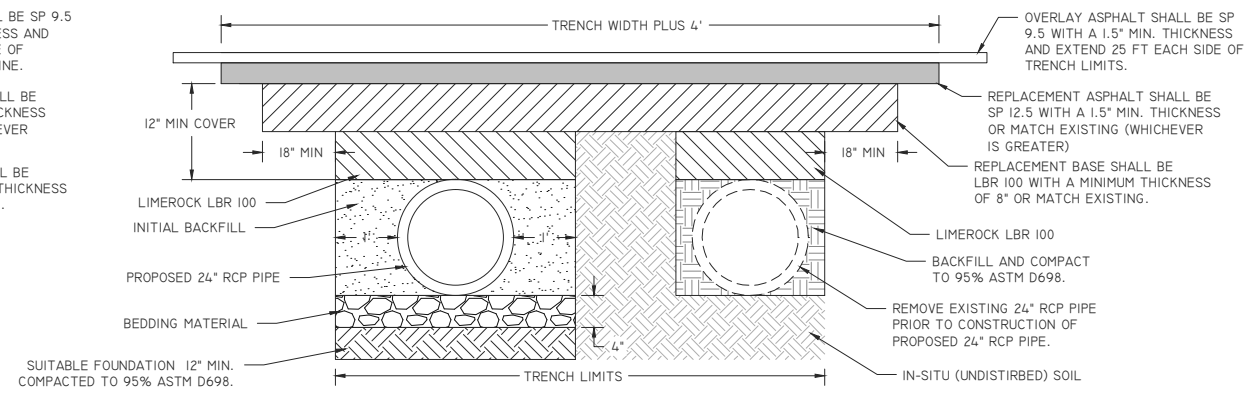
SHEET NUMBER  
 12 OF 15

**PIPE BEDDING NOTES:**

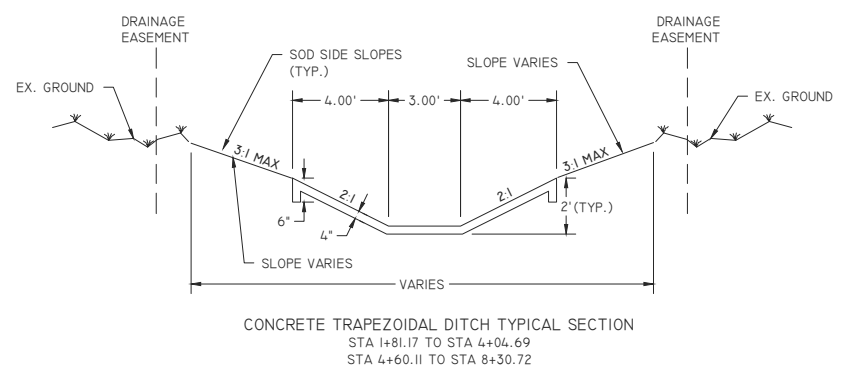
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C1479, "STANDARD PRACTICE FOR INSTALLATION OF PRECAST CONCRETE SEWER, STORM DRAIN AND CULVERT PIPE USING STANDARD INSTALLATIONS", LATEST ADDITION
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE SIZE NO. 67 COURSE AGGREGATE IN ACCORDANCE WITH FDOT STD. SPECIFICATION 901. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm).
5. INITIAL BACKFILL: SUITABLE MATERIAL DEVELOPED ON THE PROJECT THAT IS FREE OF DELETERIOUS MATERIAL AND LARGE STONES (>1" DIAMETER)
6. MINIMUM COVER: MINIMUM COVER, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER IS 12", MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT
7. OVERLAY: OVERLAY SHALL BE LAID THE FULL WIDTH OF THE ROAD AND MAINTAIN THE MINIMUM THICKNESS FOR THE ENTIRE LENGTH OF THE OVERLAY AS SPECIFIED. MINIMUM THICKNESS SHALL ALSO BE MAINTAINED THE FULL WIDTH OF THE ROADWAY (NO FEATHERING AT SHOULDERS).



**MADERIA CIRCLE PIPE BEDDING DETAIL**  
NTS

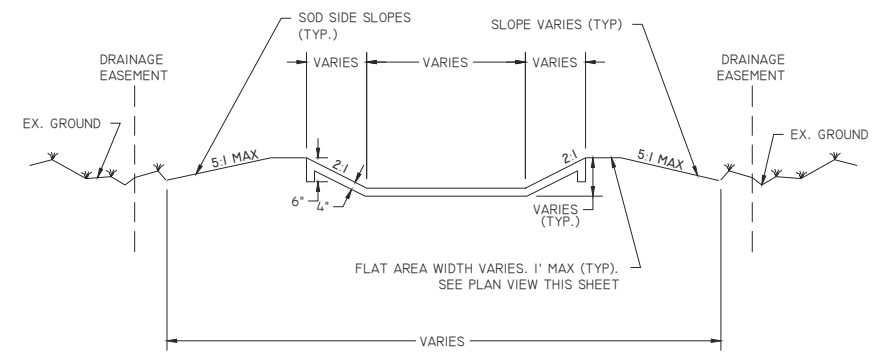


**SHARER ROAD PIPE BEDDING DETAIL**  
NTS

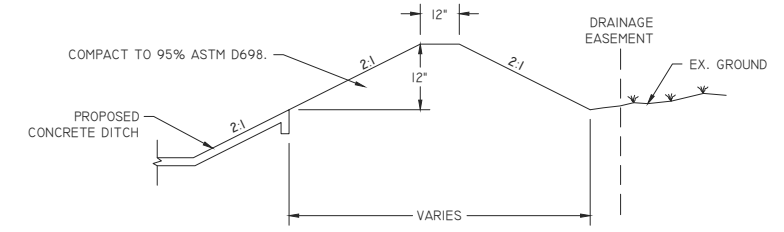


- NOTES:
1. CONCRETE DITCH EXPANSION JOINTS SHALL BE SPACED 8 FEET APART.
  2. 3,000 PSI FIBER REINFORCED CONCRETE TO BE USED FOR ALL DITCH SECTIONS.
  3. CONCRETE DITCHES TO BE MODIFIED AT ENDS TO MATCH PIPE INVERTS.

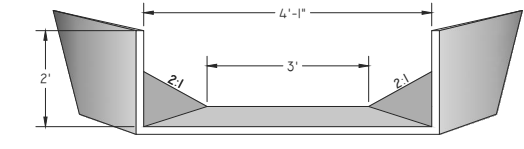
**TYPICAL CONCRETE DITCH SECTIONS**  
NTS



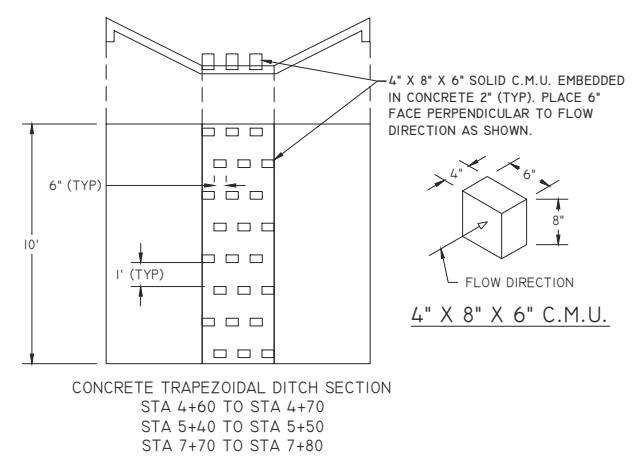
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**SPECIAL CONCRETE DITCH SECTION A**  
NTS  
STA 1+00 TO STA 1+81.17



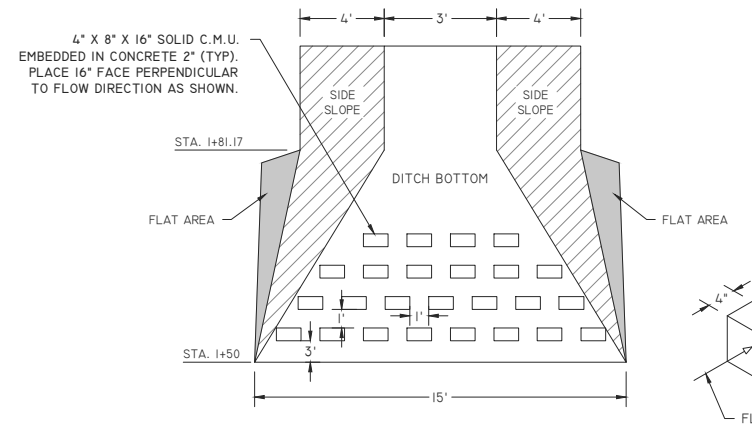
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STA. 2+60.00 TO STA. 4+04.69  
NTS



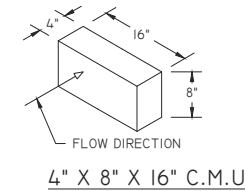
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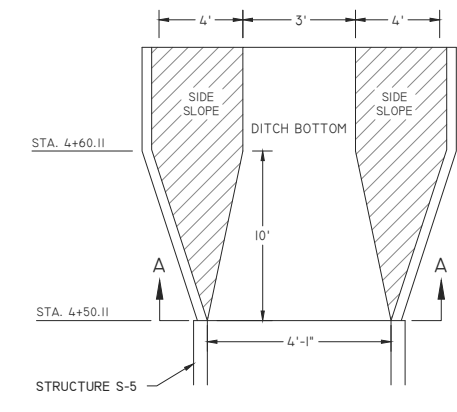
**TYPICAL ENERGY DISSIPATION SECTIONS**  
NTS



**PLAN**  
**SPECIAL CONCRETE DITCH SECTION A AND ENERGY DISSIPATER**  
NTS  
STA 1+50.00 TO STA 1+81.17



**4" X 8" X 16" C.M.U.**



**PLAN**  
**SPECIAL CONCRETE DITCH SECTION B AND ENERGY DISSIPATER**  
NTS  
STA 4+50.11 TO STA 4+60.11

NO.	DATE	BY	DESCRIPTION OF REVISION

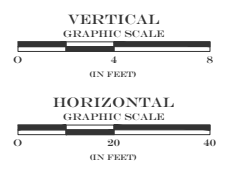
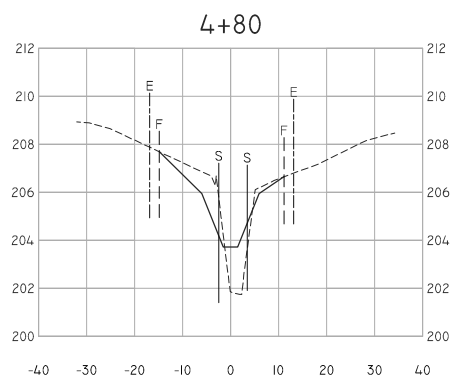
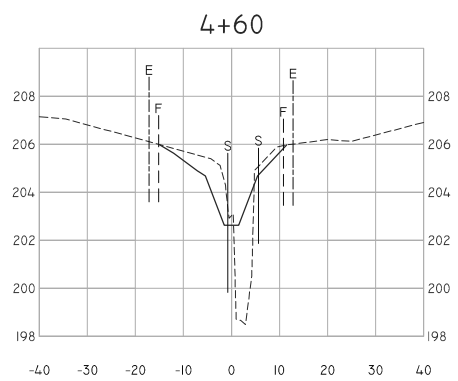
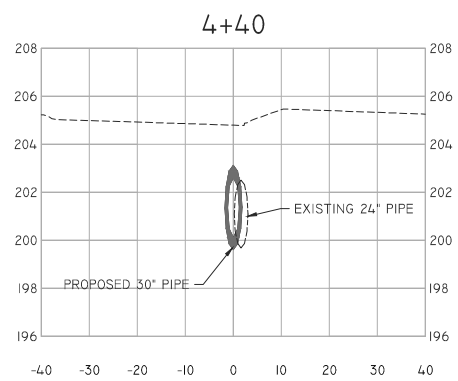
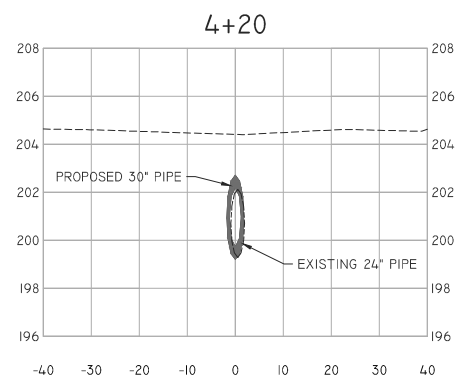
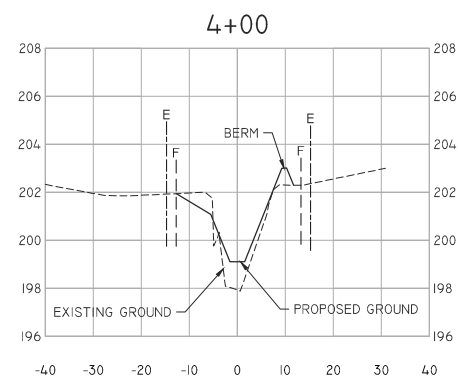
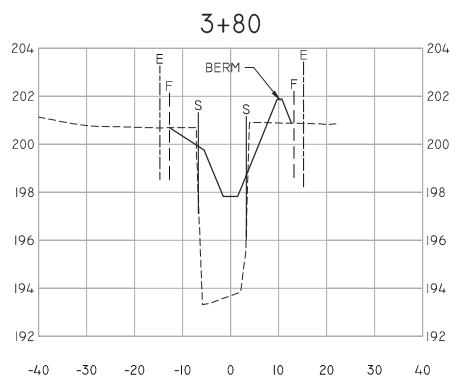
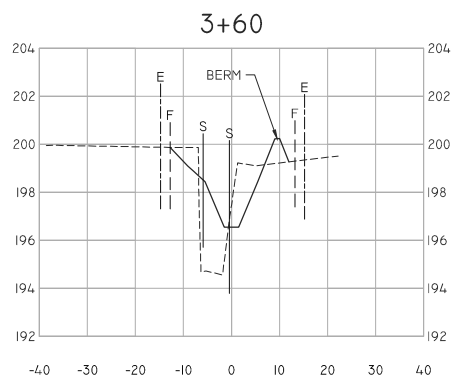
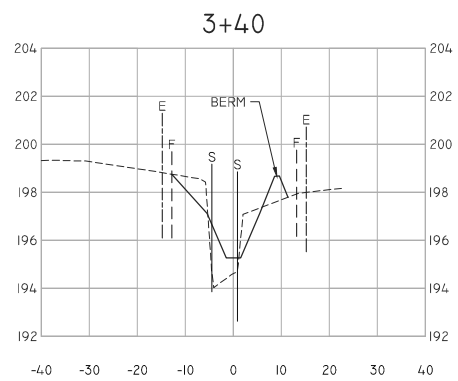
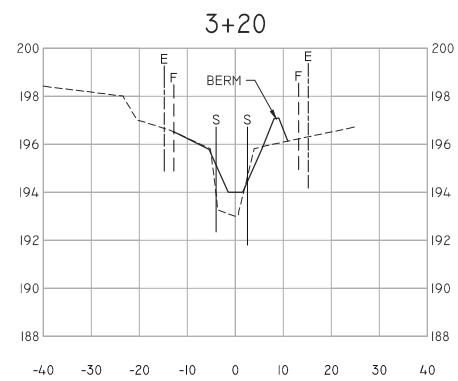
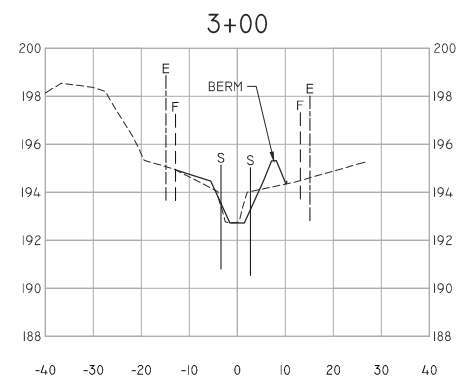
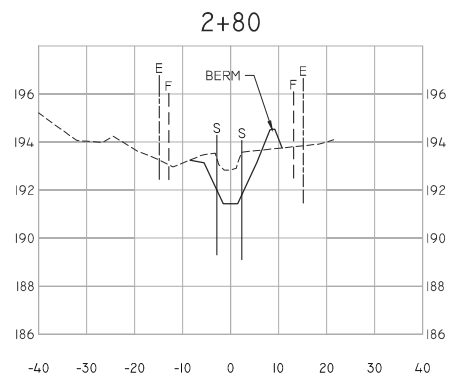
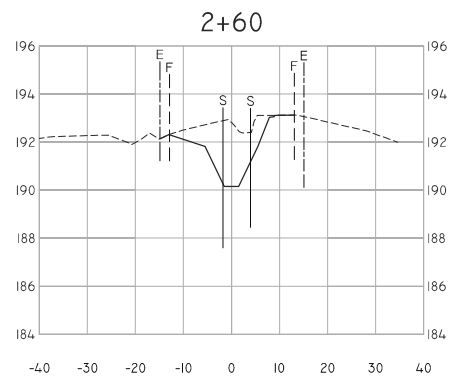
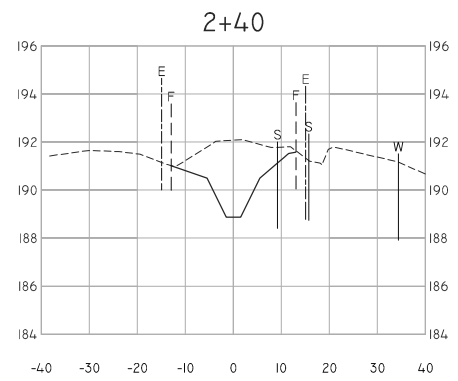
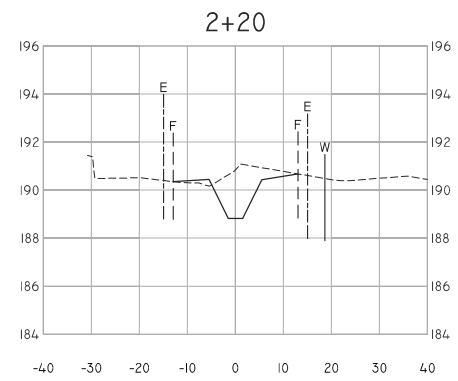
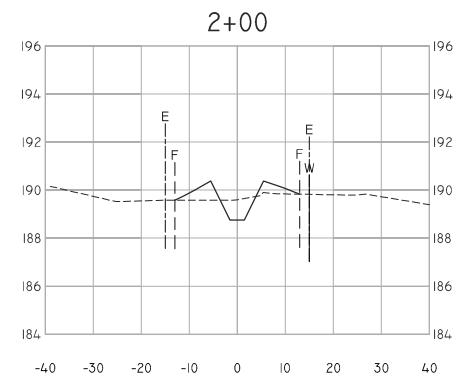
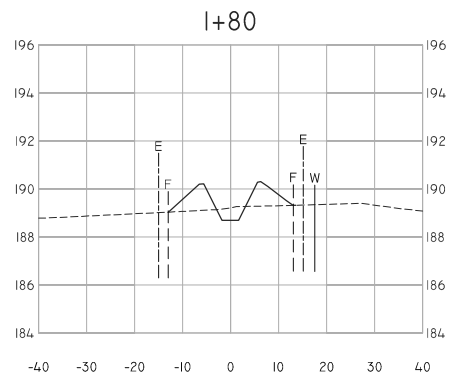
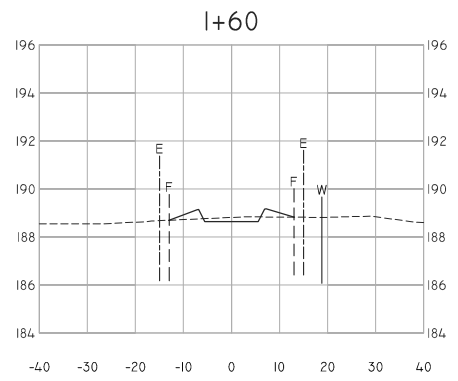
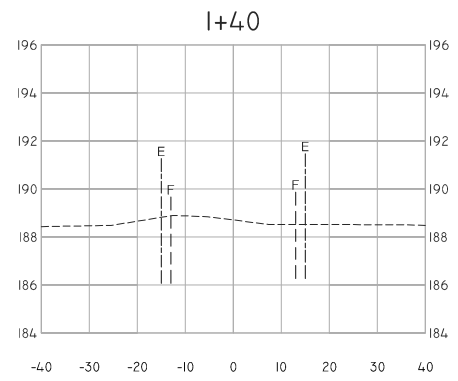
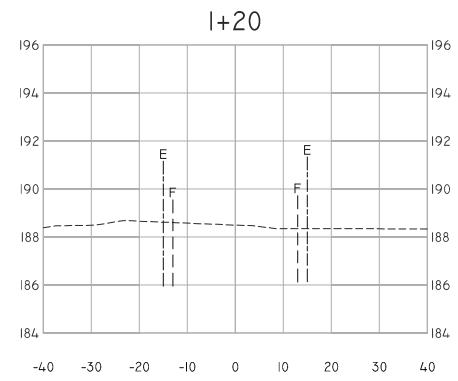
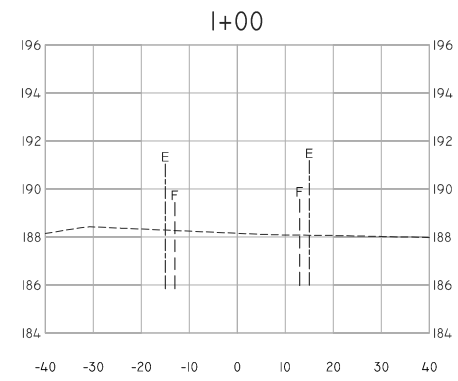
**DPRS**  
1625 SUMMIT LAKE DRIVE  
TALLAHASSEE, FL 32317  
PH: (850) 574-3197 FAX: (850) 402-6490  
CERTIFICATE OF AUTHORIZATION # 000002

PROJECT NAME: SHARER ROAD OUTFALL STABILIZATION PROJECT  
CLIENT NAME: LEON COUNTY, FLORIDA DEPARTMENT OF PUBLIC WORKS

DATE:	09/12/11
DESIGN:	ATC
DRAWN:	ATC
CHECKED:	GEM
PROJECT #:	12806067

E.O.R.:	JENNIFER F. VRYNIOS
FL REG #:	66045
SHEET TITLE:	DETAILS
SHEET NUMBER:	13 OF 15

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**LEGEND**  
 E = DRAINAGE EASEMENT  
 F = SILT FENCE  
 S = DISTRICT VERIFIED SURFACE WATER LINE  
 W = DISTRICT VERIFIED WETLAND LINE

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NO.	DATE	BY	DESCRIPTION OF REVISION

**URS**  
 1625 SUMMIT LAKE DRIVE  
 TALLAHASSEE, FL 32317  
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 SHARER ROAD OUTFALL  
 STABILIZATION PROJECT

**CLIENT NAME:**  
 LEON COUNTY, FLORIDA  
 DEPARTMENT OF PUBLIC WORKS

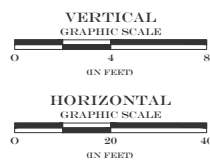
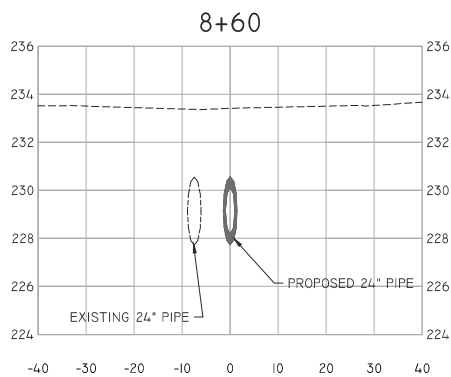
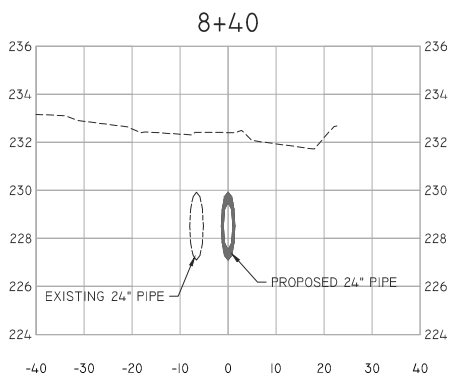
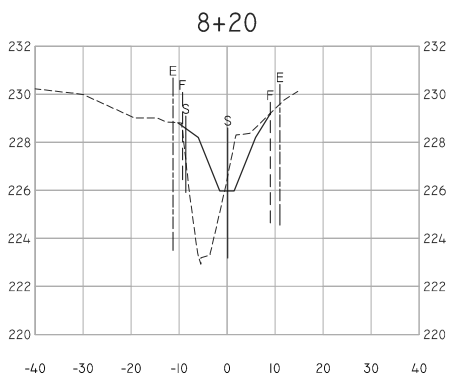
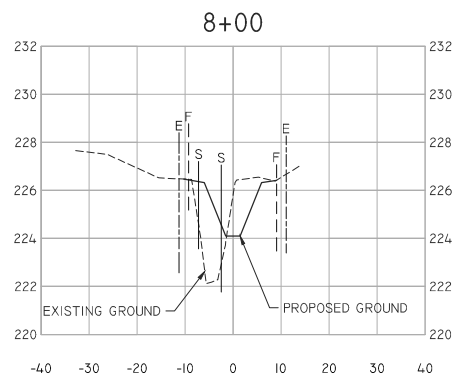
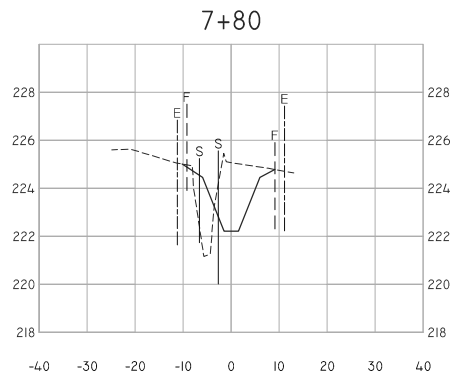
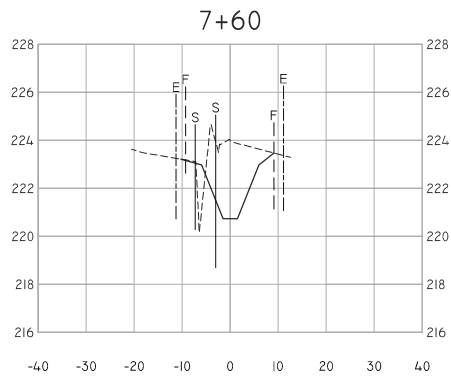
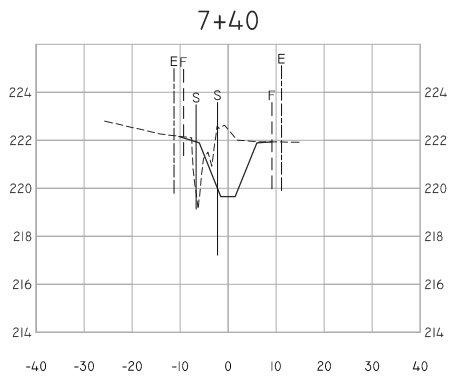
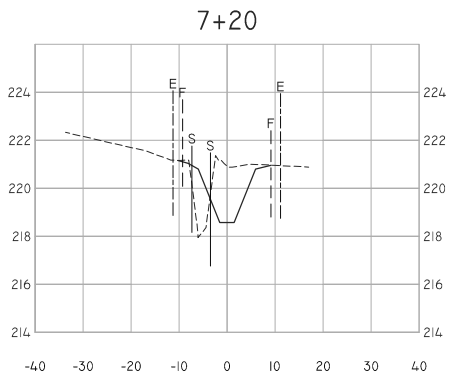
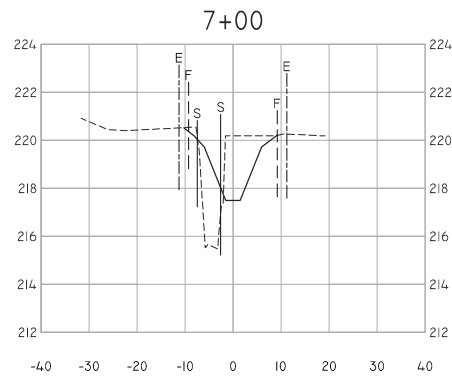
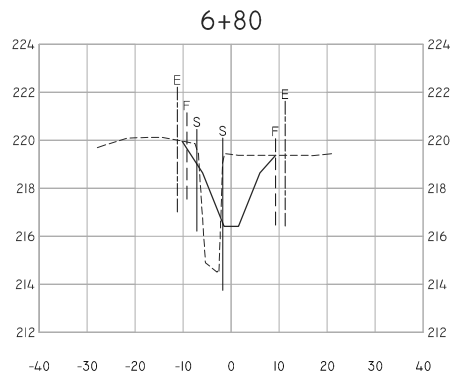
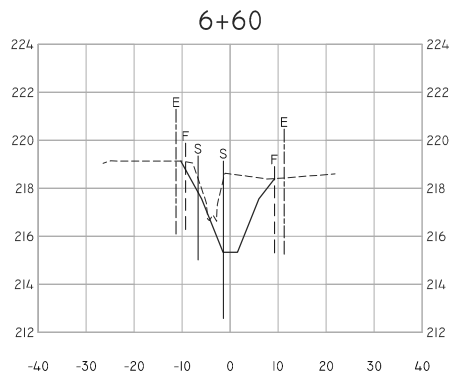
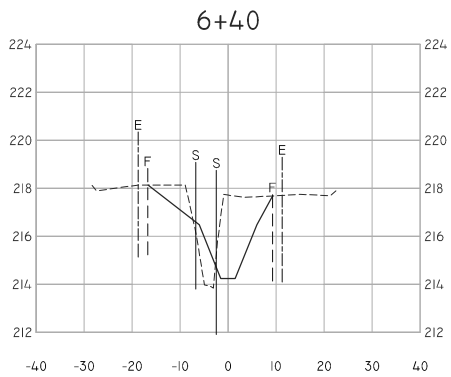
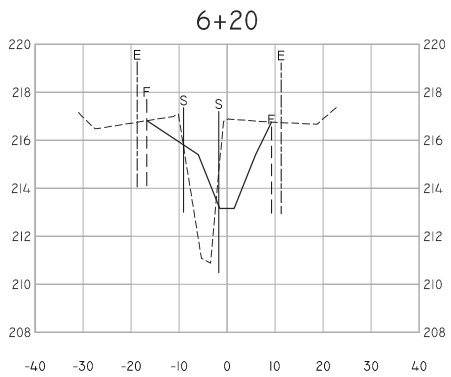
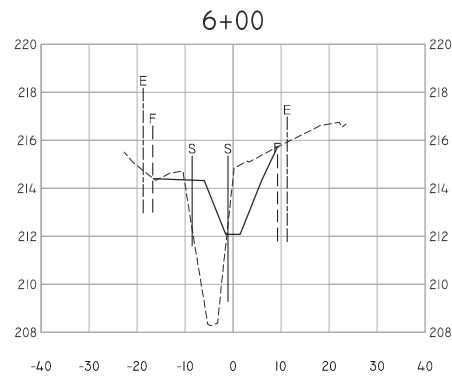
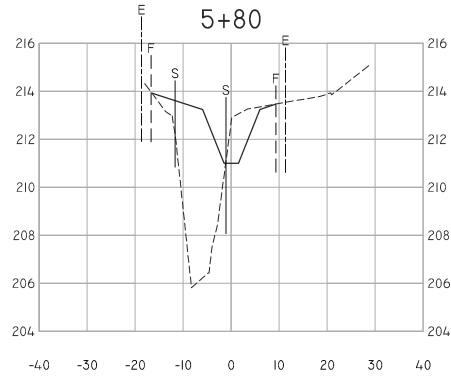
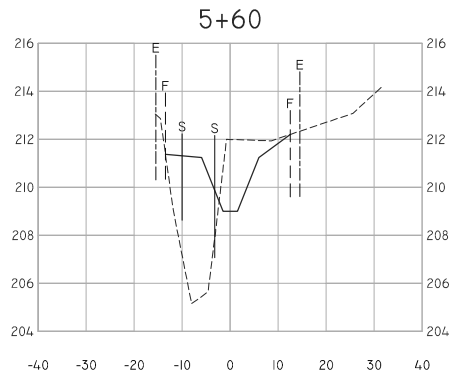
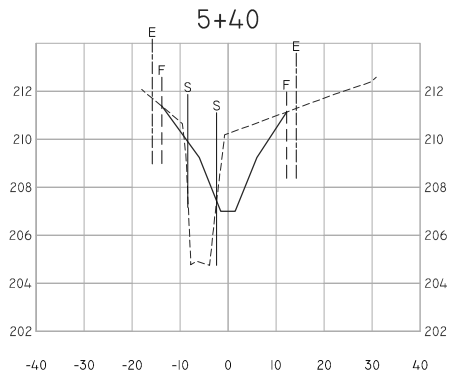
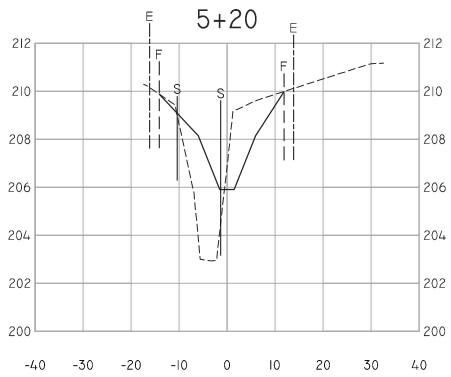
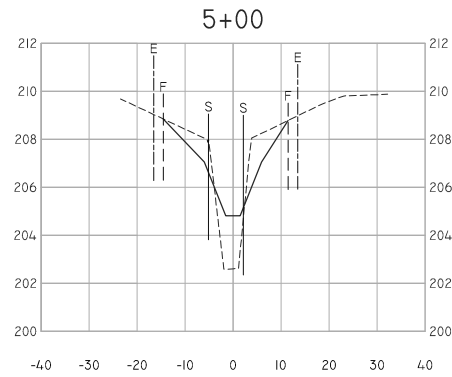
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<b>DESIGN:</b>	ATC
<b>DRAWN:</b>	ATC
<b>CHECKED:</b>	GEM
	JFV
<b>PROJECT #:</b>	12806067

**E.O.R.**  
 JENNIFER F. VRYNIOS  
 FL REG # 66045

**SHEET TITLE**  
 X-SEC - STA.  
 I+00 TO 4+80

**SHEET NUMBER**  
 14 OF 15

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**LEGEND**  
 E = DRAINAGE EASEMENT  
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**DJRS**  
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<b>E.O.R.</b>	JENNIFER F. VRYNIOS
<b>FL. REG #</b>	66045
<b>SHEET TITLE</b>	
X-SEC - STA. 5+00 TO 8+60	

**SHEET NUMBER**  
 15 OF 15