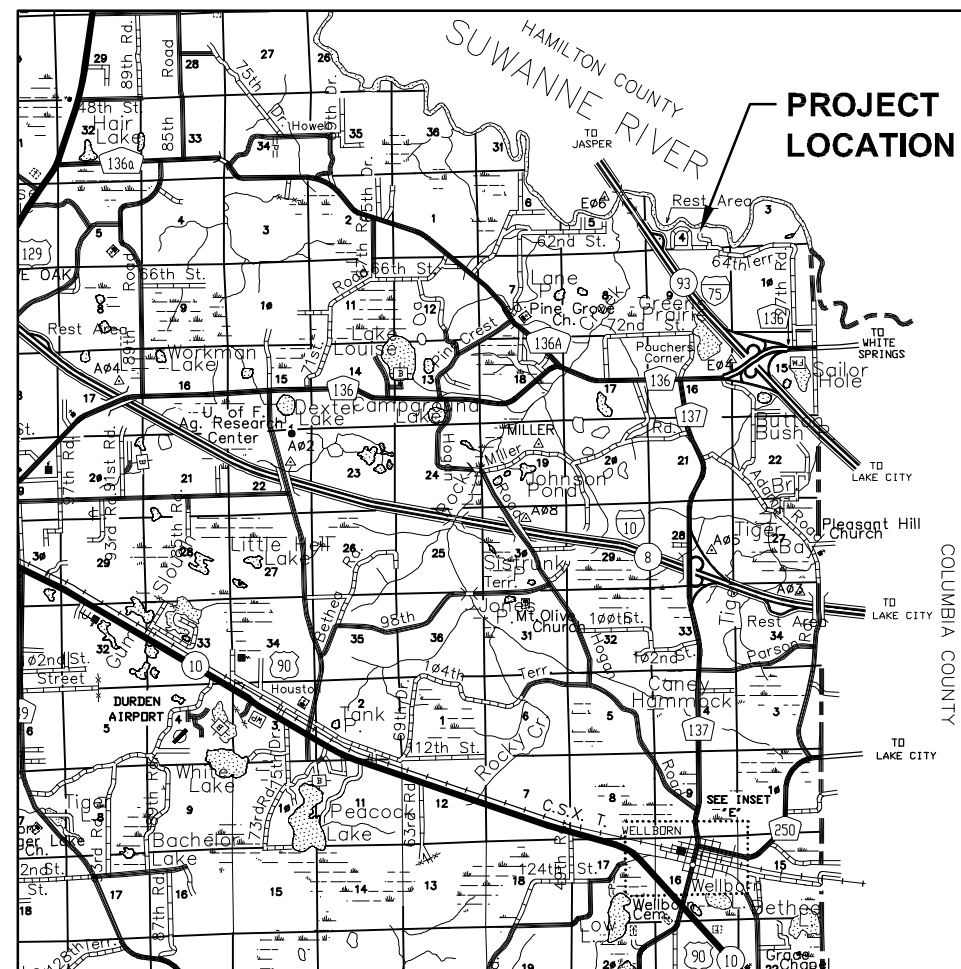


# BLUE SINK RIVER ACCESS RESTORATION

## FOR SUWANNEE RIVER WATER MANAGEMENT DISTRICT

### INDEX OF SHEETS

- 1 COVER SHEET
- 2 OVERALL EXISTING CONDITIONS MAP
- 3 EXISTING CONDITIONS MAP AND EROSION CONTROL PLAN
- 4 SUBSURFACE SOIL EXPLORATION
- 5 PARKING AREA REHABILITATION AREA
- 6 PLAN AND PROFILE
- 7 END TREATMENT PLAN AND DETAILS
- 8 WALL PROFILES
- 9 TYPICAL CROSS SECTION
- 10-21 CROSS SECTIONS
- 22-23 CONSTRUCTION NOTES AND DETAILS
- 24 WALL CONSTRUCTION DETAILS



LOCATION MAP  
N.T.S.

SUWANNEE COUNTY  
FLORIDA

### PREPARED FOR:



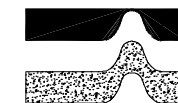
SUWANNEE RIVER  
WATER MANAGEMENT DISTRICT  
9225 CR 49  
LIVE OAK, FLORIDA 32060  
(800) 226-1066 (386) 647-6588 FAX  
heeke\_b@srwmd.state.fl.us

### PREPARED BY:



**GENESIS GROUP**  
FROM VISION TO REALITY

GGI, LLC dba GENESIS GROUP  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 00009660 FL LB 0006816  
www.GenesisGroup.com



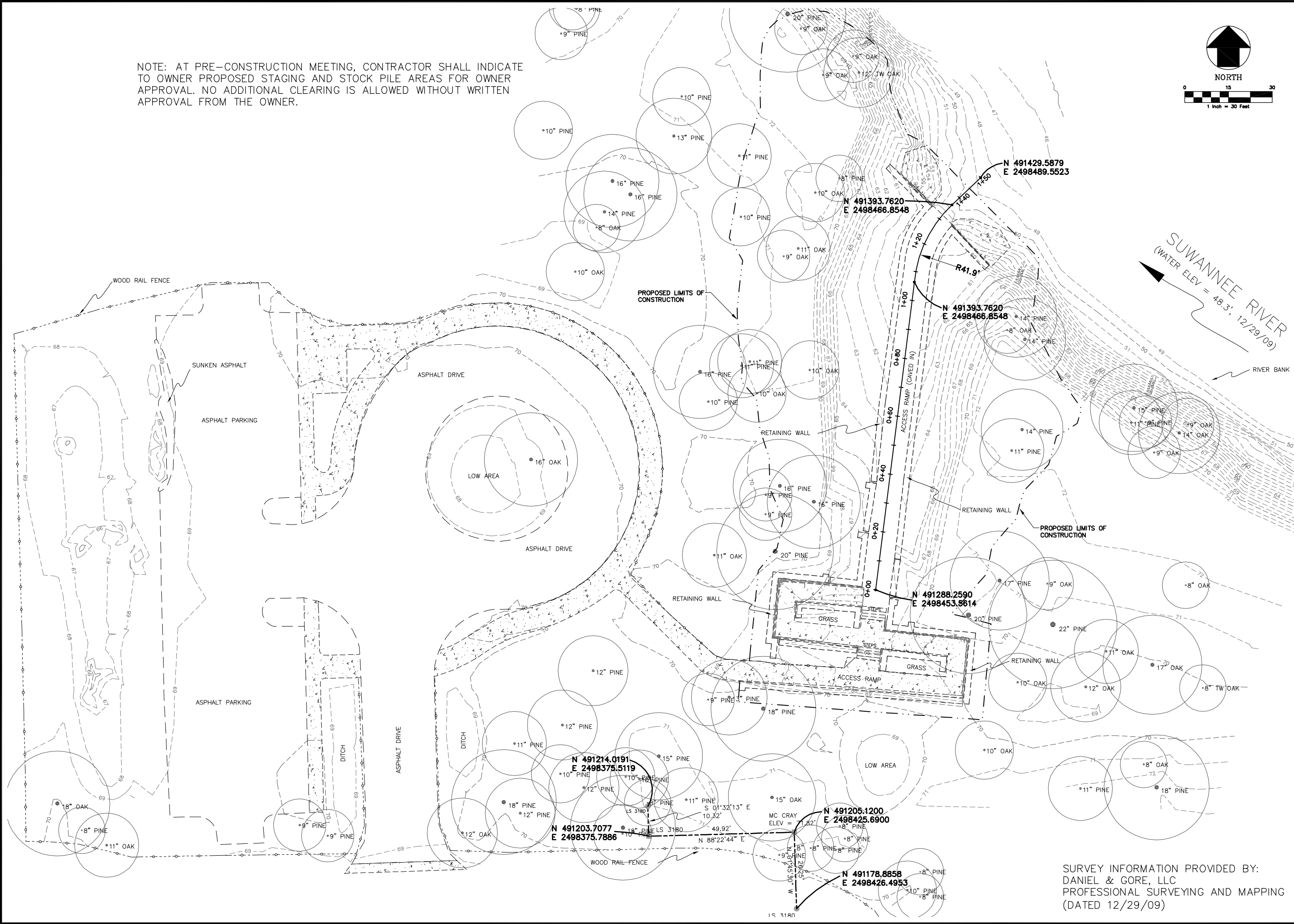
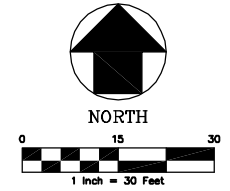
**Ardaman & Associates, Inc.**  
3175 W. Tharpe Street  
Tallahassee, Florida 32303  
(850) 576-6131

### ENGINEER OF RECORD:

Mark P. Thomasson, P.E.  
License Number: 48287

DATE: 12/22/10

NOTE: AT PRE-CONSTRUCTION MEETING, CONTRACTOR SHALL INDICATE TO OWNER PROPOSED STAGING AND STOCK PILE AREAS FOR OWNER APPROVAL. NO ADDITIONAL CLEARING IS ALLOWED WITHOUT WRITTEN APPROVAL FROM THE OWNER.



NO.	DATE	DESCRIPTION	REVISIONS
DESIGNED BY:	S.R.W.	CHECKED BY:	M.P.T.
PROJECT NUMBER:	8039-011	SCALE:	1" = 30'
DRAWN BY:	S.R.W.	DATE:	12/23/10

**GENESIS GROUP**  
 GGI, LLC dba GENESIS GROUP  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 FL CA 00009660 FL LB 0006816 FL IC 26000202 (850) 224-4400 (850) 681-3600 FAX

**SUNANNEE RIVER WATER MANAGEMENT DISTRICT**

PREPARED FOR  
 Mark P. Thompson, P.E.  
 License Number 48287

**OVERALL EXISTING CONDITIONS MAP**

**BLUE SINK RIVER ACCESS RESTORATION**

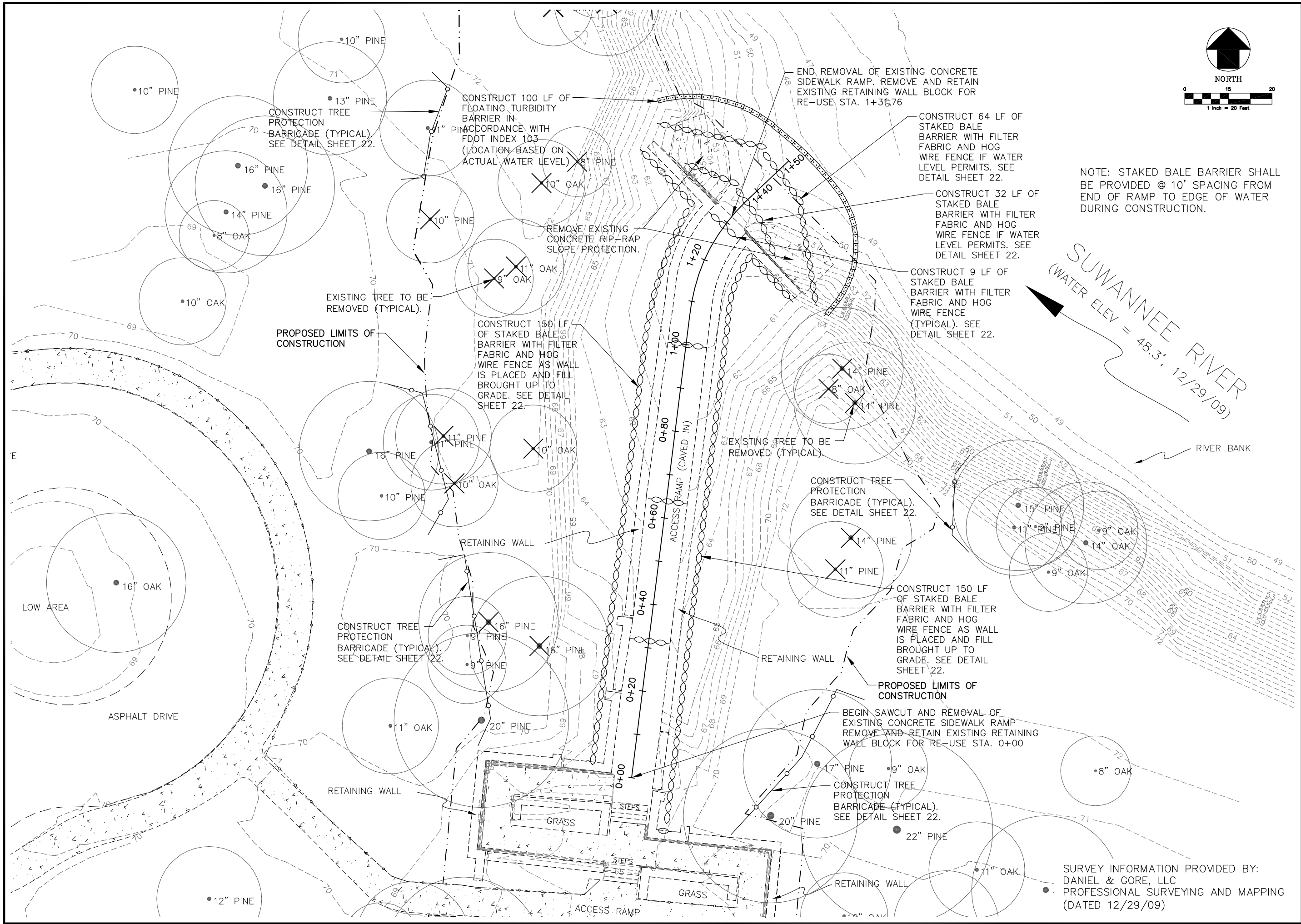
SHEET TITLE  
 SHEET NUMBER

**2**

SURVEY INFORMATION PROVIDED BY:  
 DANIEL & GORE, LLC  
 PROFESSIONAL SURVEYING AND MAPPING  
 (DATED 12/29/09)

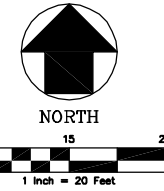
December 23, 2010 (1:54:46 PM)  
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DATE: 12/29/09 (1:54:45 PM)  
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NOTE: STAKED BALE BARRIER SHALL BE PROVIDED @ 10' SPACING FROM END OF RAMP TO EDGE OF WATER DURING CONSTRUCTION.

SUWANNEE RIVER  
(WATER ELEV = 48.3', 12/29/09)



NO.	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	PROJECT NUMBER	PROJECT NUMBER	DATE
			S.R.W.	M.P.T.	8039-011	8039-011	12/23/10
			S.R.W.				1" = 20'

GGL LLC dba GENESIS GROUP  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 FL CA 00009660 FL LP 0006816 FL IC 26000202 (850) 224-4400 (850) 681-3600 FAX

**GENESIS GROUP**

PREPARED FOR

**SUWANNEE RIVER WATER MANAGEMENT DISTRICT**

Mark P. Thompson, P.E.  
 License Number 48287

**EXISTING CONDITIONS MAP AND EROSION CONTROL PLAN**

**BLUE SINK RIVER ACCESS RESTORATION**

PROJECT NAME

SHEET NUMBER

**3**

SURVEY INFORMATION PROVIDED BY:  
 DANIEL & GORE, LLC  
 PROFESSIONAL SURVEYING AND MAPPING  
 (DATED 12/29/09)

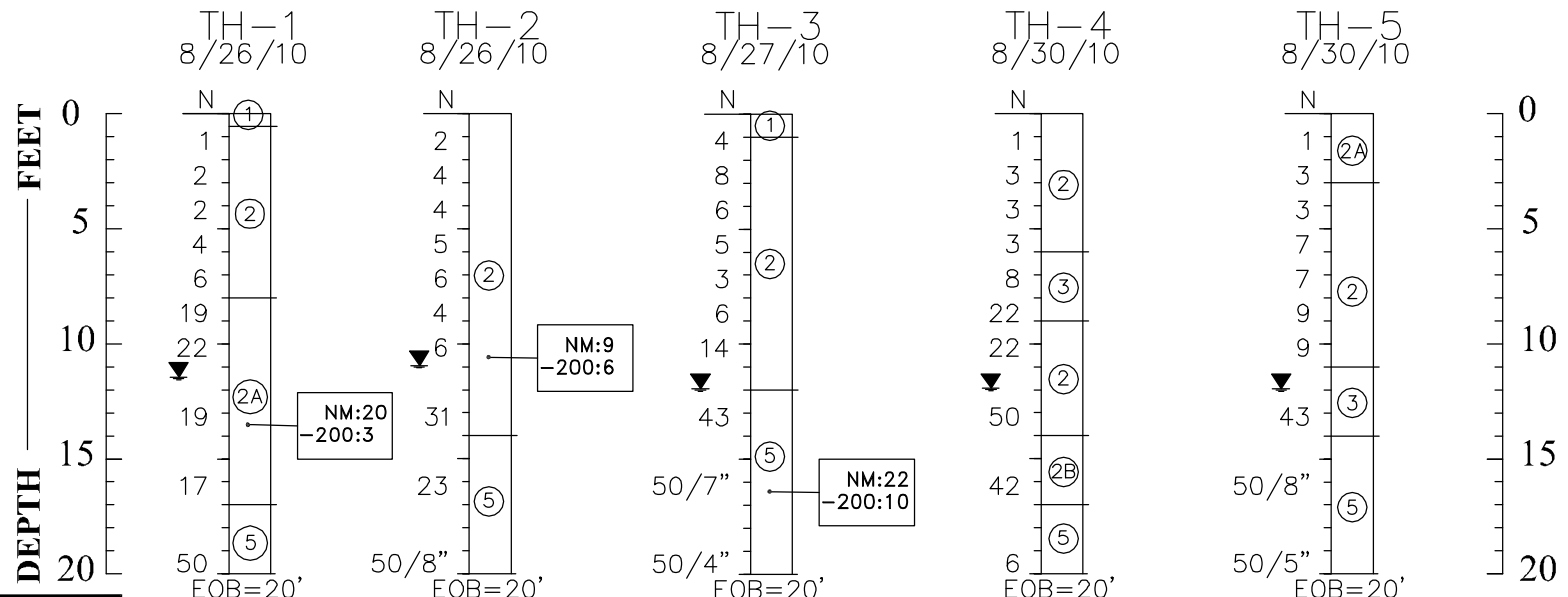
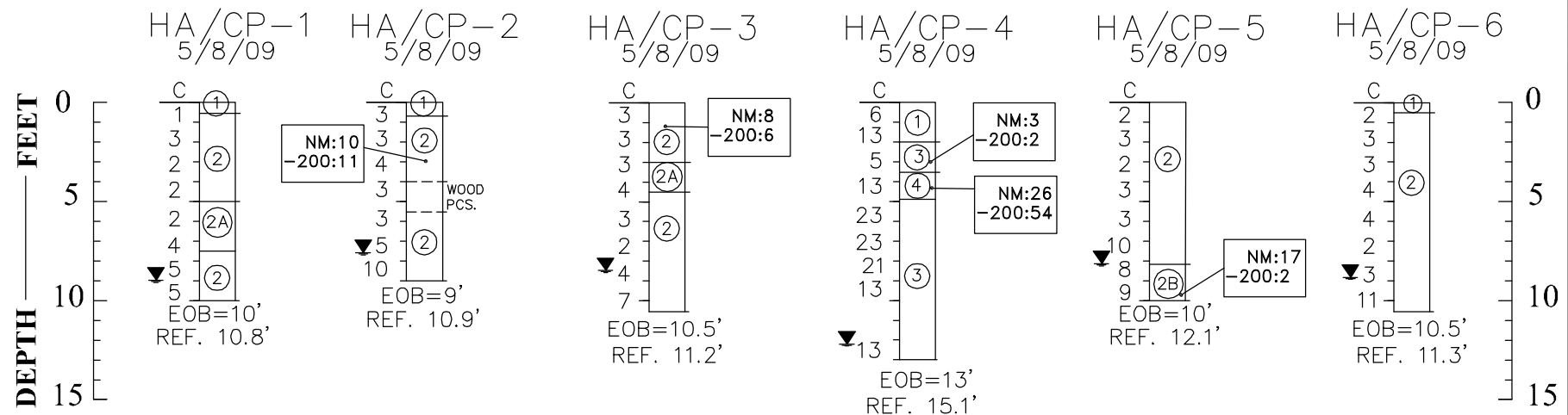
**LEGEND**

- HA/CP-1: HAND AUGER TEST BORING WITH DYNAMIC CONE PENETRATION SOUNDINGS (ASTM STP\* #399); PERFORMED BY ARDAMAN ON 5/8/09
- ⊕ TH-1: STANDARD PENETRATION TEST (SPT) BORING LOCATION PERFORMED AUGUST 2010
- C: DYNAMIC CONE PENETRATION RESISTANCE OF SOILS; BLOWS/1.75" OF RING WEIGHT DROPPING 20" (ASTM STP\* #399)
- NM: SOIL NATURAL MOISTURE CONTENT (ASTM D 2216)
- 200: PERCENTAGE OF SOIL PASSING US NO. 200 SIEVE (ASTM D 1140)
- REF: CONE REFUSAL ON HARD SOIL ("HARDPAN")
- ▼ INDICATES GROUNDWATER TABLE ENCOUNTERED ON DATE DRILLED
- 50/6": 50 BLOWS FOR 6-INCH SPOON ADVANCEMENT
- SP-SM: UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487, 2488)
- A-3: AASHTO SOIL CLASSIFICATION SYSTEM (AASHTO M 145)
- ARDAMAN DRILL CREW: KM, JDA, SB
- \*: SPECIAL TECHNICAL PUBLICATION

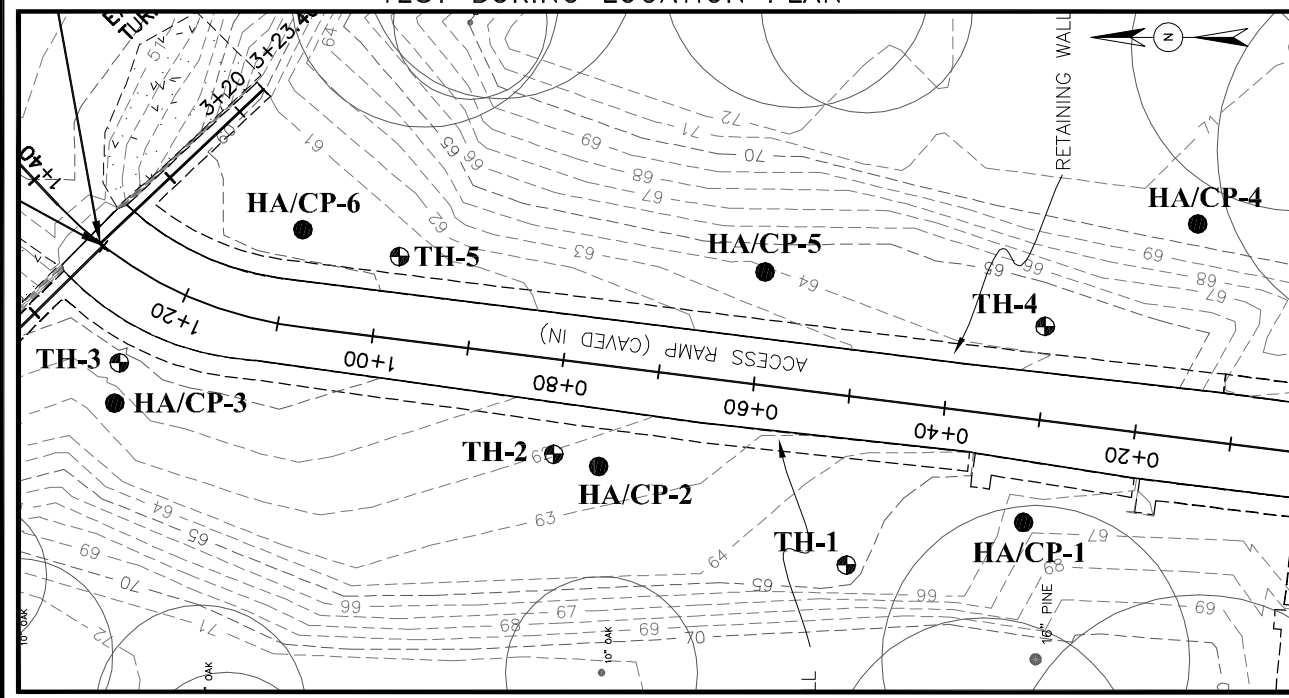
**SOIL LEGEND**

- [1] DARK GRAY-BROWN FINE SAND WITH SILT TO SILTY SAND WITH SURFICIAL ROOTS (SP-SM/SM; A-3 TO A-2-4)
- [2] MIXED LIGHT TAN & GRAY-BROWN FINE SAND WITH SILT AND OCCASIONAL POCKETS SILTY SAND (SP-SM; A-3)
- [2A] SIMILAR TO [2] WITH SOME GRAVEL TO 1.5" SIZE
- [2B] TAN COARSE TO FINE SAND (SP; A-3)
- [3] LIGHT TAN TO WHITE FINE SAND TO SAND WITH SILT (SP TO SP-SM; A-3)
- [4] DARK BROWN SANDY SILT (ML; A-7)
- [5] GREENISH GRAY TO TAN-GRAY MEDIUM TO FINE SAND TO SILTY SAND (SP-SM; A-3 TO A-2-4)

**SOIL BORING PROFILES**



TEST BORING LOCATION PLAN



**NOTES**

- "HA/CP" BORINGS PERFORMED ON 5/8/09 AND "TH" BORINGS WERE PERFORMED IN AUGUST 2010.
- TEST BORINGS (TH-1 THROUGH TH-5) WERE "TREMIE" GROUTED USING 1/2 BAG OF CEMENT IN EACH BOREHOLE.
- "TH" TEST BORINGS WERE PERFORMED USING A "TRIPOD" PORTABLE RIG, WHICH TYPICALLY RESULTS IN REDUCED HAMMER EFFICIENCY. A REDUCED "N"-VALUE (80% OF ACTUAL VALUE) IS SHOWN IN FIGURE ABOVE.
- "TH" TEST BORINGS WERE PERFORMED USING ROTARY "MUD" DRILLING METHODS

**ENGINEERING CLASSIFICATION**

I COHESIONLESS SOILS		
DESCRIPTION	"N" ≈ "C"	
VERY LOOSE	0 TO 4	
LOOSE	4 TO 10	
MEDIUM DENSE	10 TO 30	
DENSE	30 TO 50	
VERY DENSE	>50	
II COHESIVE SOILS		
DESCRIPTION	UNCONFINED COMPRESSIVE STRENGTH, QU, TSF	"N" ≈ "C"
VERY SOFT	<1/4	0 TO 2
SOFT	1/4 TO 1/2	2 TO 4
MEDIUM STIFF	1/2 TO 1	4 TO 8
STIFF	1 TO 2	8 TO 15
VERY STIFF	2 TO 4	15 TO 30
HARD	>4	>30

WHILE THE BORINGS ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT THEIR RESPECTIVE LOCATIONS AND FOR THEIR RESPECTIVE VERTICAL REACHES, LOCAL VARIATIONS CHARACTERISTIC OF THE SUBSURFACE MATERIALS OF THE REGION ARE ANTICIPATED AND MAY BE ENCOUNTERED. THE BORING LOGS AND RELATED INFORMATION ARE BASED ON THE DRILLER'S LOGS AND VISUAL EXAMINATION OF SELECTED SAMPLES IN THE LABORATORY. THE DELINEATION BETWEEN SOIL TYPES SHOWN ON THE LOGS IS APPROXIMATE AND THE DESCRIPTION REPRESENTS OUR INTERPRETATION OF SUBSURFACE CONDITIONS AT THE DESIGNATED BORING LOCATIONS ON THE PARTICULAR DATE DRILLED.

GROUNDWATER ELEVATIONS SHOWN ON THE BORING LOGS REPRESENT GROUNDWATER SURFACES ENCOUNTERED ON THE DATES SHOWN. FLUCTUATIONS IN WATER TABLE LEVELS SHOULD BE ANTICIPATED THROUGHOUT THE YEAR. ABSENCE OF WATER SURFACE DATA ON CERTAIN BORINGS IMPLIES THAT NO GROUNDWATER DATA IS AVAILABLE, BUT DOES NOT NECESSARILY MEAN THAT GROUNDWATER WILL NOT BE ENCOUNTERED AT THESE LOCATIONS OR WITHIN THE VERTICAL REACHES OF THESE BORINGS IN THE FUTURE.

**Ardaman & Associates, Inc.**  
3175 W. Thorpe Street  
Tallahassee, Florida 32303  
(850) 576-6131

**GENESIS GROUP**  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
FL-CA 00009660 FL-LB 000616 FL-IC 26000202 (850) 224-4400 (850) 681-3600 FAX

**SUNANEE RIVER WATER MANAGEMENT DISTRICT**

**SUBSURFACE SOIL EXPLORATION**

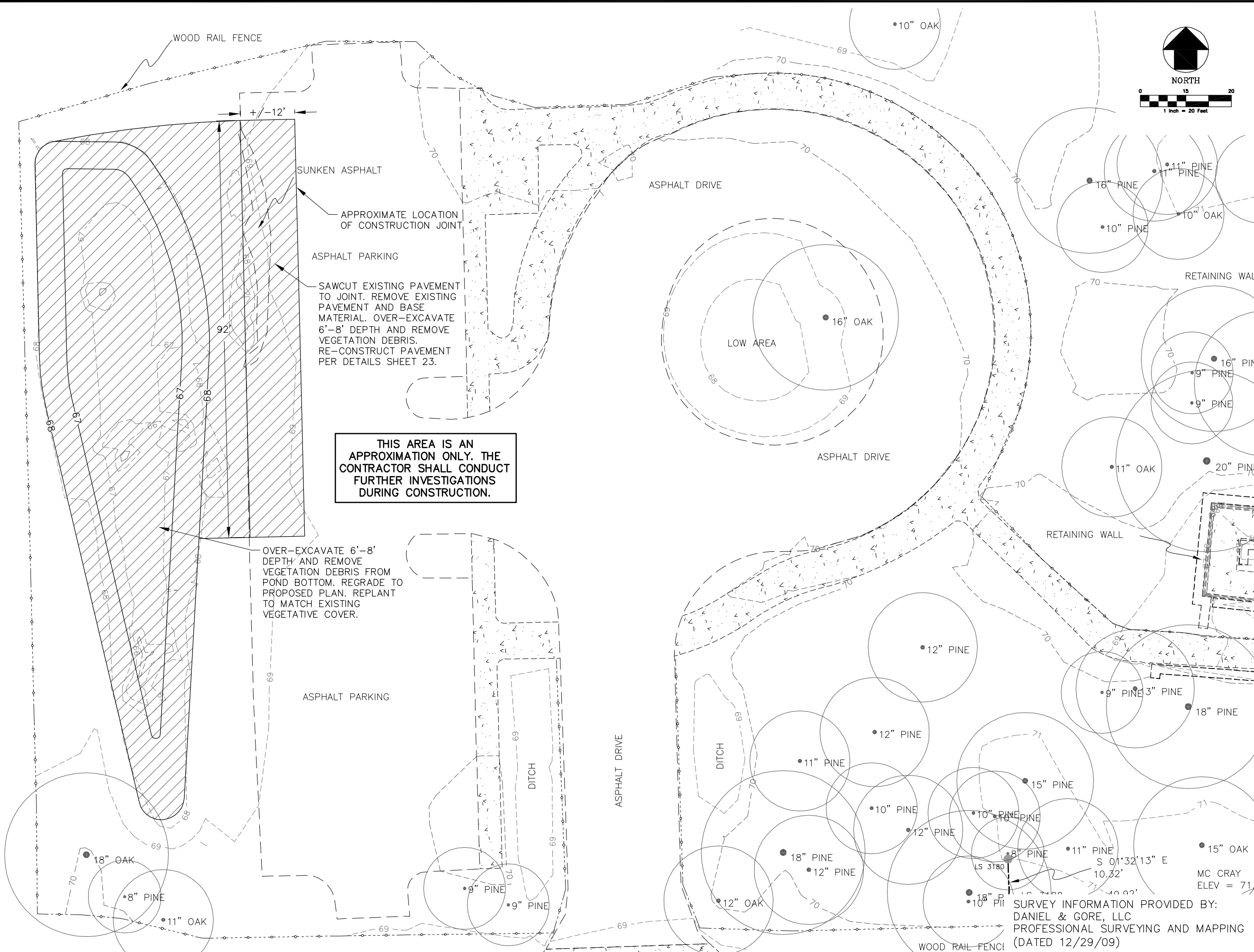
**BLUE SINK RIVER ACCESS RESTORATION**

PROJECT NUMBER: 8039-011  
DATE: 12/23/10  
SCALE: 1" = 20'  
DESIGNED BY: S.F.W.  
CHECKED BY: M.P.T.  
REVISIONS: 1

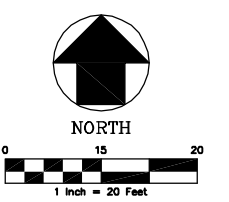
William Smallwood, Jordan, P.E.  
License Number 33026

4

December 23, 2010 (11:54:45 AM EST)  
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THIS AREA IS AN APPROXIMATION ONLY. THE CONTRACTOR SHALL CONDUCT FURTHER INVESTIGATIONS DURING CONSTRUCTION.



NO.	DATE	DESCRIPTION	REVISIONS
DESIGNED BY:	S.R.W.	CHECKED BY:	M.P.T.
PROJECT NUMBER:	8039-011	DATE:	12/23/10
SCALE:	1" = 20'		

**GENESIS GROUP**  
 GENESIS GROUP  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 (850) 224-4400 (850) 681-3600 FAX  
 FL CA 00009660 FL LB 0006816 FL IC 26000202

**SUNANEE RIVER WATER MANAGEMENT DISTRICT**

PREPARED FOR:

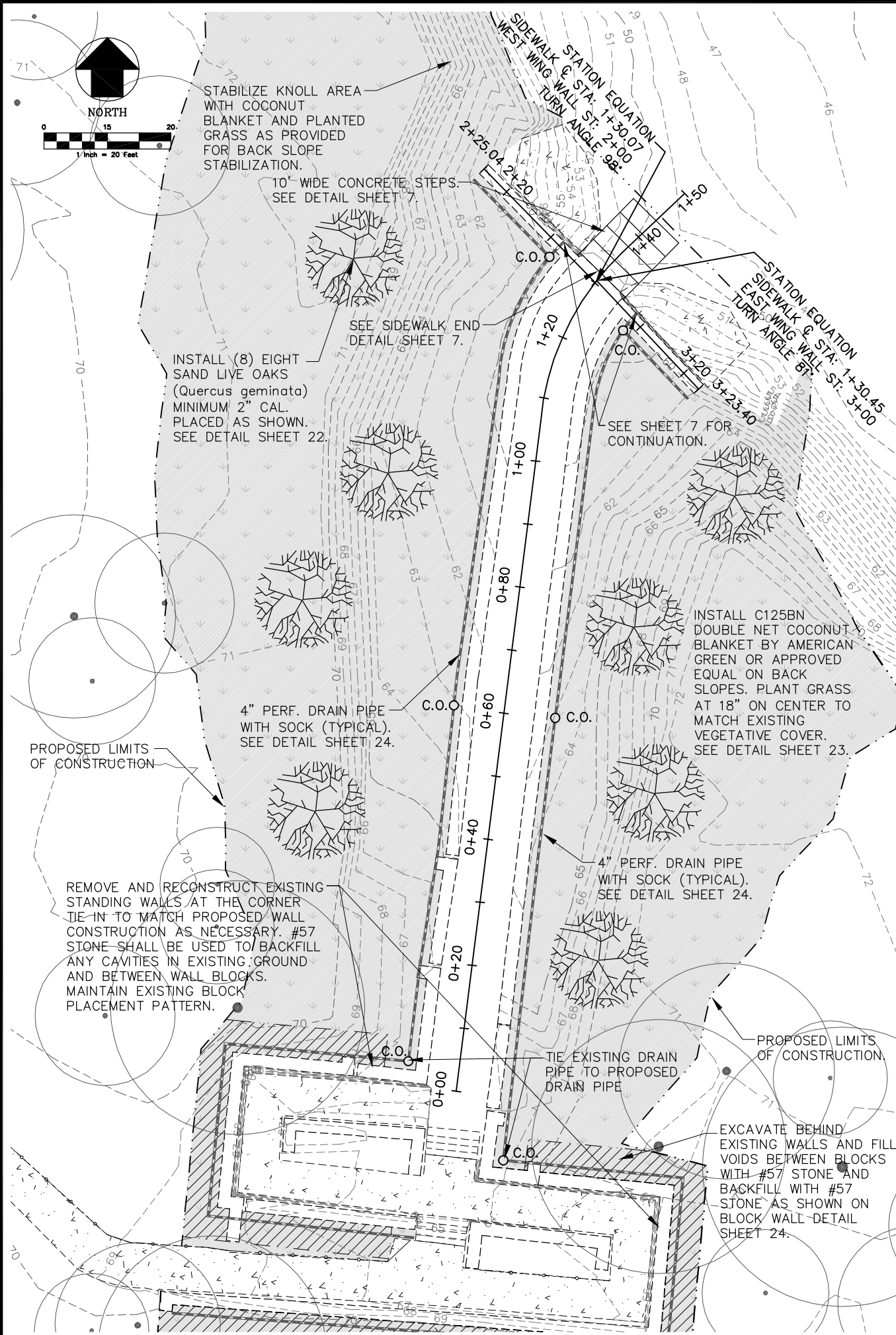
**PARKING AREA REHABILITATION PLAN**  
**BLUE SINK RIVER ACCESS RESTORATION**

PROJECT NAME:   
 SHEET NUMBER: **5**

SEAL:   
 Mark P. Thompson, P.E.  
 License Number 48287

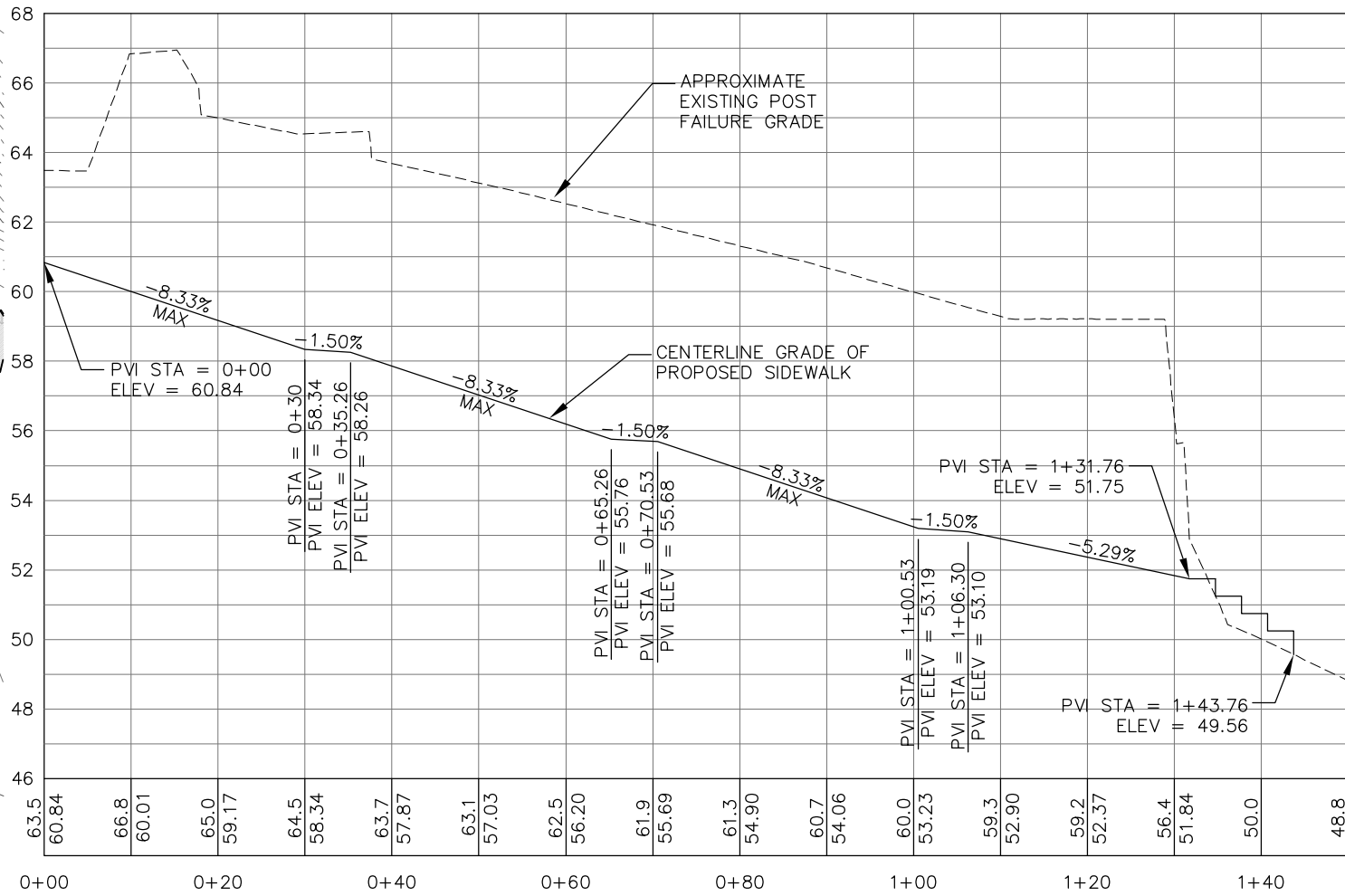
SURVEY INFORMATION PROVIDED BY:  
 DANIEL & GORE, LLC  
 PROFESSIONAL SURVEYING AND MAPPING  
 (DATED 12/29/09)

Drawing: 25\_2010 (11-24-09, 057)  
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**CONSTRUCTION NOTES**

1. CONTRACTOR SHALL NOTE THAT THE PROPOSED DESIGN IS BASED ON THE PREVIOUS DESIGN BY WILSON MILLER, INC. DATED JANUARY 2007 ON FILE WITH THE SUWANNEE RIVER MANAGEMENT DISTRICT. THERE HAS BEEN NO ATTEMPT TO FIELD VERIFY THE CONDITION OR QUANTITY OF RETAINING WALL BLOCKS REMAINING IN PLACE.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE IN HIS BID ALL COST AND EFFORT REQUIRED TO VERIFY THE INTEGRITY OF THE BLOCKS TO REMAIN IN PLACE AND INCLUDE REPLACEMENT IF NECESSARY.
3. THE CONTRACTOR SHALL STAKE OUT THE LIMITS OF CONSTRUCTION PRIOR TO EARTHWORK DISTURBANCE ACTIVITIES AND CONTACT THE OWNER FOR APPROVAL.
4. CONTRACTOR SHALL NOTE THAT A GRAVEL DRAINAGE ENVELOPE SHALL BE CONSTRUCTED BEHIND ALL EXISTING TO REMAIN AND PROPOSED BLOCK RETAINING WALLS AS SHOWN IN THE PLANS AND CROSS SECTIONS.
5. CONTRACTOR IS REQUIRED TO SUBMIT SIGNED AND SEALED STEEL SHEET PILE RETAINING WALL DESIGN TO OWNER, FOR REVIEW, PRIOR TO COMMENCING WORK.
6. DO NOT DISTURB WOODED AREAS OR ANY EXISTING VEGETATION OUTSIDE THE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS. MINIMIZE IMPACTS WITHIN THE LIMITS OF CONSTRUCTION TO MAINTAIN AS MUCH NATIVE GROUND AND VEGETATION AS POSSIBLE.

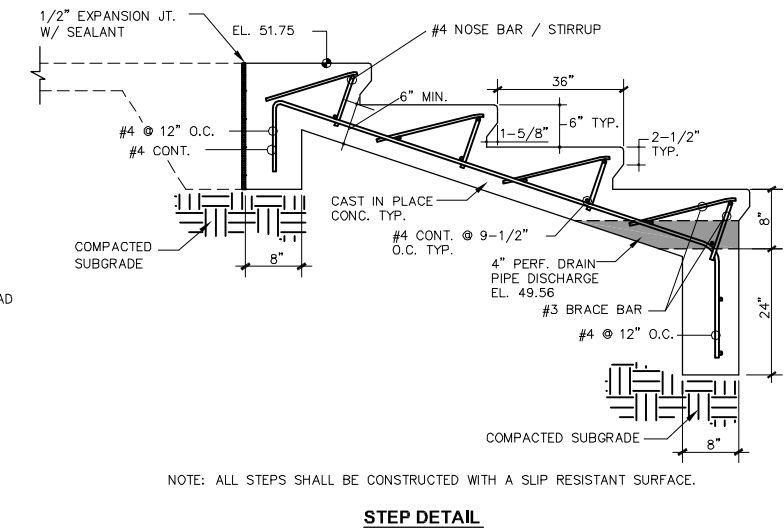
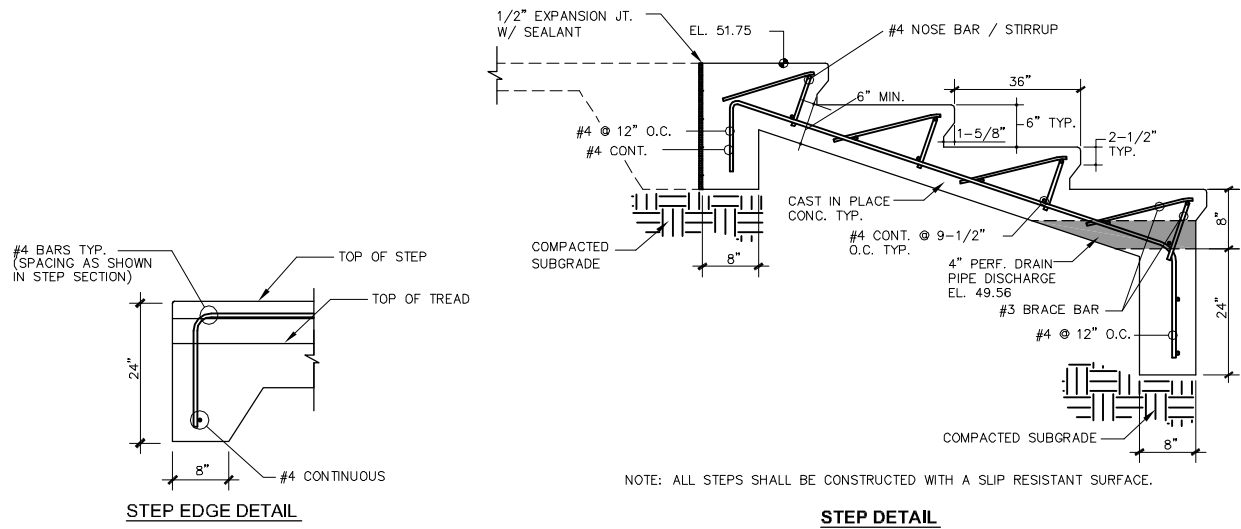
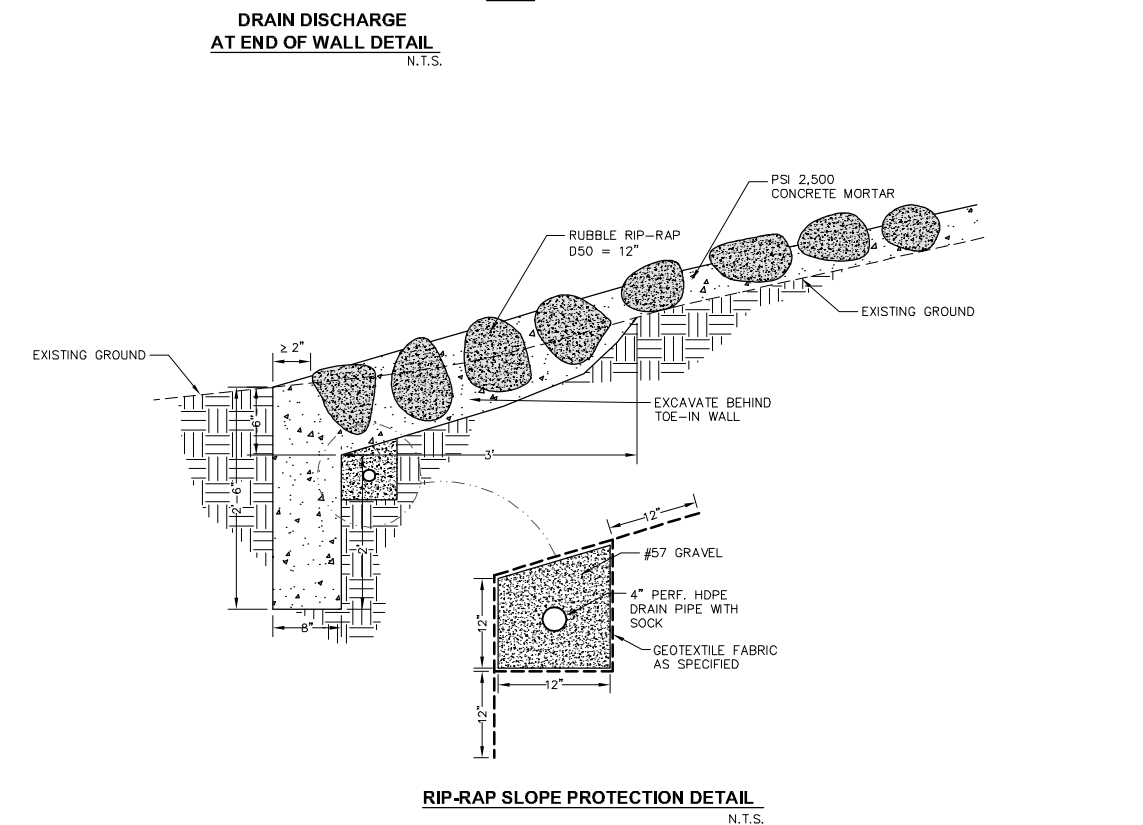
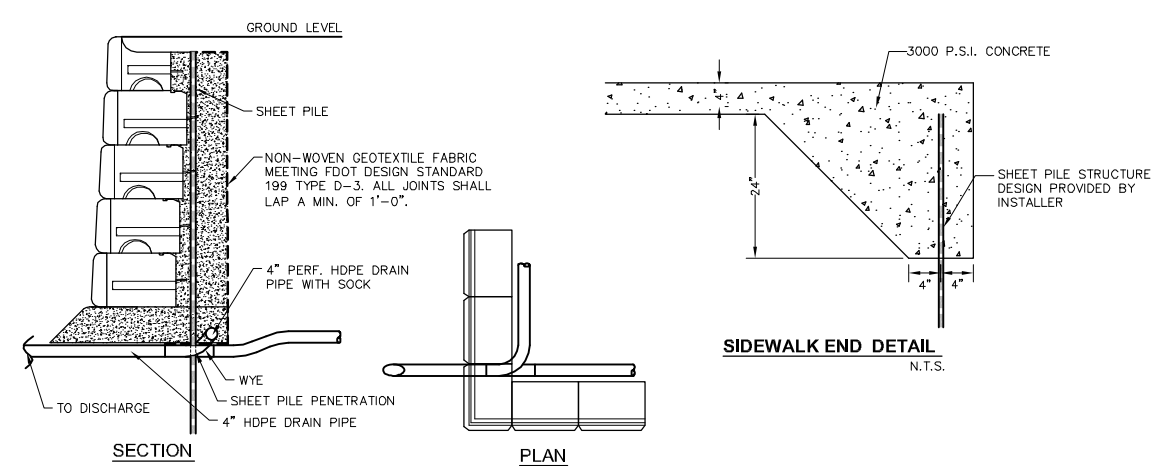
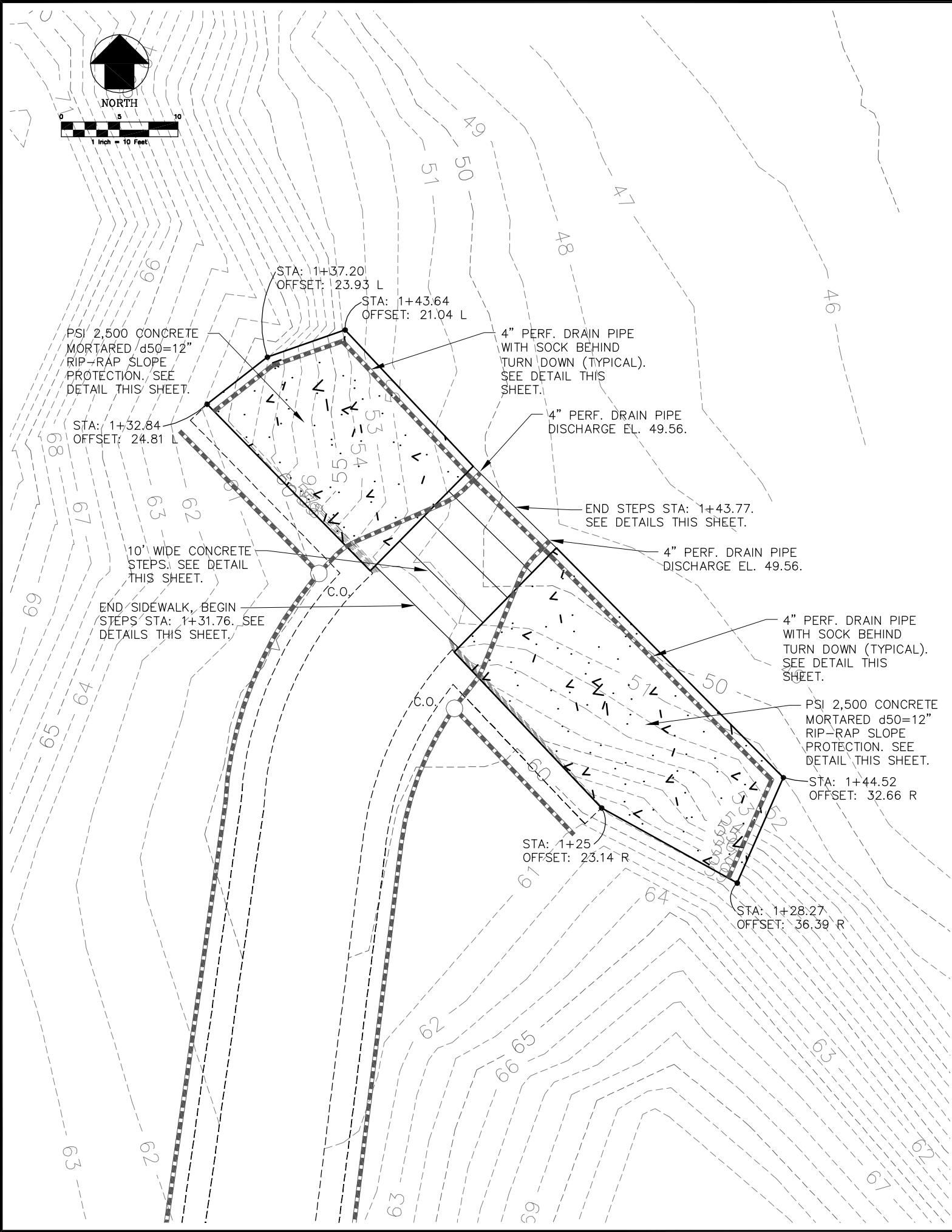


AREAS TO BE SEEDED WITH LOVE GRASS AT 4-5 LB/ACRE THEN INSTALL C125BN DOUBLE NET COCONUT BLANKET BY AMERICAN GREEN OR APPROVED EQUAL ON BACK SLOPES. SEE DETAIL SHEET 23.

EXISTING PROFILE AND CROSS SECTION DATA BASED ON SURVEY INFORMATION PROVIDED BY: DANIEL & GORE, LLC  
 PROFESSIONAL SURVEYING AND MAPPING (DATED 12/29/09)

<b>GENESIS GROUP</b> GENESIS GROUP 2507 CALLAWAY ROAD, SUITE 100 TALLAHASSEE, FLORIDA 32303 FL CA 00009660 FL LB 0006816 FL IC 26000202 (850) 224-4400 (850) 681-3600 FAX	PROJECT NUMBER <b>8039-011</b>	DATE <b>12/23/10</b>
	CHECKED BY: <b>M.P.T.</b>	SCALE <b>1" = 20'</b>
PREPARED FOR <b>SUWANNEE RIVER WATER MANAGEMENT DISTRICT</b>		
PROJECT NAME <b>BLUE SINK RIVER ACCESS RESTORATION</b>		
SHEET TITLE <b>PLAN AND PROFILE</b>		
SHEET NUMBER <b>6</b>		

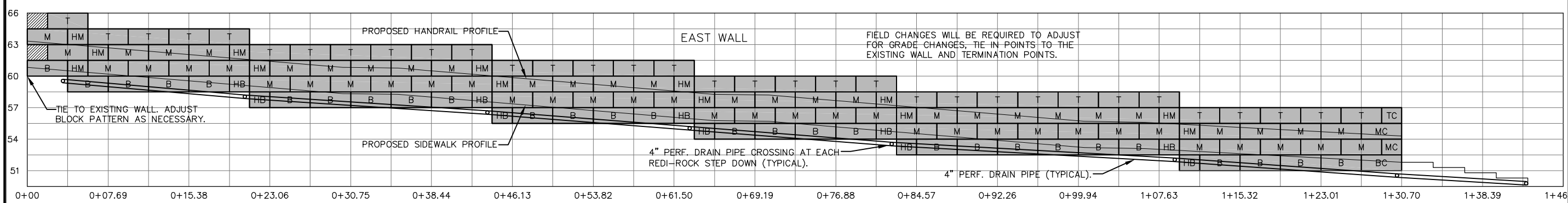
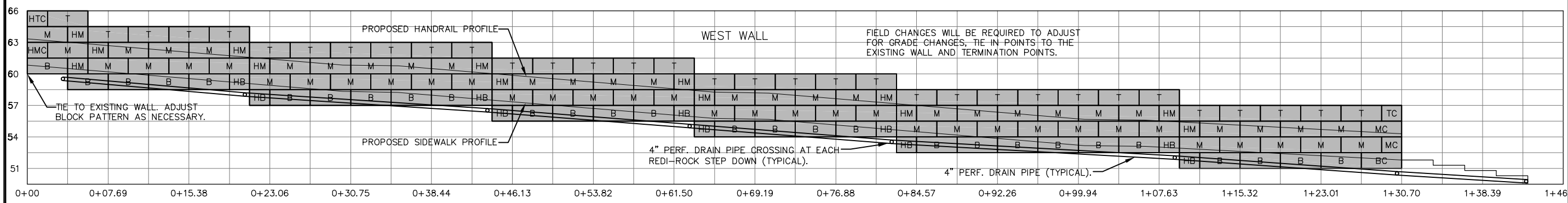
December 23, 2010 (1:54:46 PM)  
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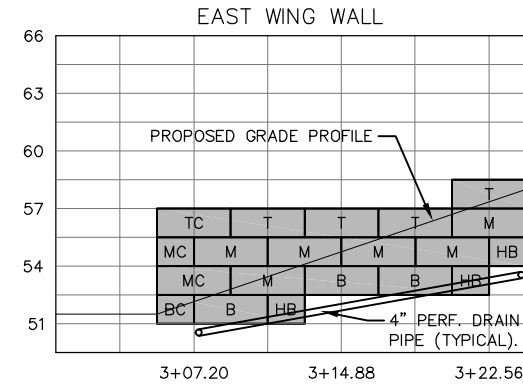
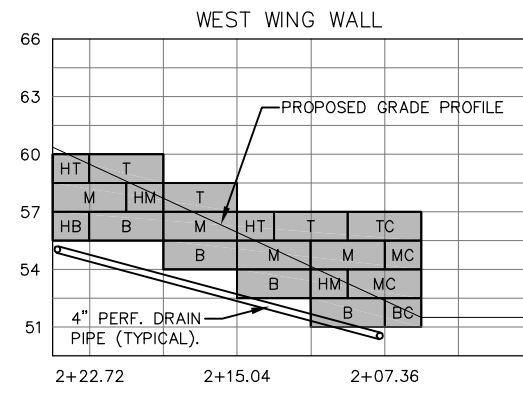
NOTE: ALL STEPS SHALL BE CONSTRUCTED WITH A SLIP RESISTANT SURFACE.

<p><b>GENESIS GROUP</b>          GENESIS GROUP          2507 CALLAWAY ROAD, SUITE 100          TALLAHASSEE, FLORIDA 32303          FL-CA 00009660 FL-LB 0006816 FL-IC 26000202 (850) 224-4400 (850) 681-3600 FAX</p>	<p><b>SUNANEE RIVER WATER MANAGEMENT DISTRICT</b></p>	<p>NO. DATE DESCRIPTION REVISIONS          DESIGNED BY: S.F.W. CHECKED BY: M.P.T. PROJECT NUMBER: 8039-011          DRAWN BY: S.F.W. SCALE: 1" = 10' DATE: 12/23/10</p>	<p><b>END TREATMENT PLAN AND DETAILS</b></p> <p><b>BLUE SINK RIVER ACCESS RESTORATION</b></p> <p>SHEET TITLE: <b>7</b></p> <p>SHEET NUMBER: <b>7</b></p>
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PROFILE SCALE  
 HORIZONTAL 1" = 10'  
 VERTICAL 1" = 10'



THE PROPOSED DESIGN IS BASED ON THE PREVIOUS DESIGN BY WILSON MILLER, INC. DATED JANUARY 2007 ON FILE WITH THE SUWANNEE RIVER MANAGEMENT DISTRICT. THERE HAS BEEN NO ATTEMPT TO FIELD VERIFY THE CONDITION OR QUANTITY OF RETAINING WALL BLOCKS REMAINING IN PLACE.

EXISTING PROFILE AND CROSS SECTION DATA BASED ON SURVEY INFORMATION PROVIDED BY: DANIEL & GORE, LLC PROFESSIONAL SURVEYING AND MAPPING (DATED 12/29/09)

NO.	DATE	DESCRIPTION	REVISIONS
DESIGNED BY:	S.R.W.	CHECKED BY:	M.P.T.
PROJECT NUMBER:	8039-011	SCALE:	AS SHOWN
PROJECT NUMBER:	8039-011	DATE:	12/23/10

**GENESIS GROUP**  
 GENI, LLC dba GENESIS GROUP  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 FL-CA 00009660 FL-LB 0006816 FL-IC 26000202 (850) 224-4400 (850) 681-3600 FAX

PREPARED FOR  
**SUWANNEE RIVER WATER MANAGEMENT DISTRICT**

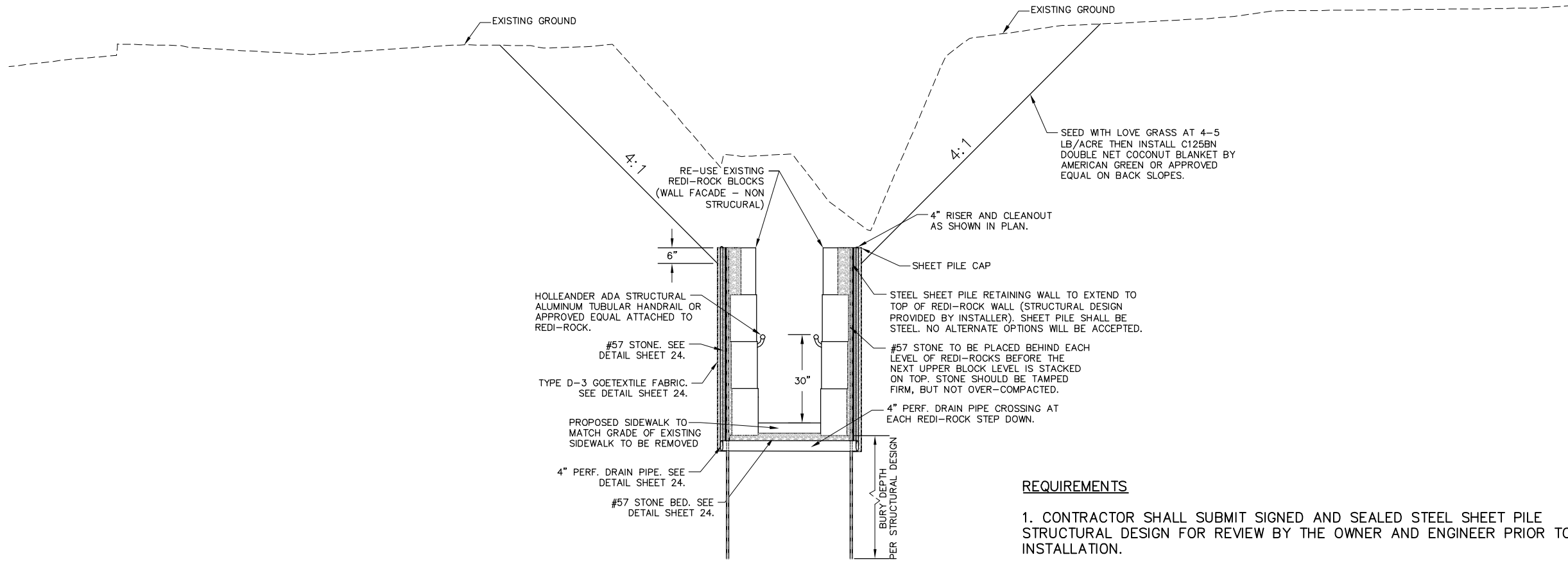
SEAL  
 Mark P. Thompson, P.E.  
 License Number 48287

**WALL PROFILES**  
**BLUE SINK RIVER ACCESS RESTORATION**

SHEET TITLE  
 SHEET NUMBER  
**8**



December 23, 2010 (1:54:46 PM)  
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**TYPICAL SECTION**  
 N.T.S.

**REQUIREMENTS**

1. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED STEEL SHEET PILE STRUCTURAL DESIGN FOR REVIEW BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION.
2. CONTRACTOR IS HEREBY NOTIFIED OF THE REQUIREMENTS AND RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER, ARDAMAN & ASSOCIATES, INC. AS PUBLISHED IN THEIR REPORT TITLE "SUBSURFACE SOIL EXPLORATIONS AND GEOTECHNICAL ENGINEERING EVALUATIONS FOR SUWANNEE RIVER TRAILS WALLS RESTORATION BLUE SINK PARK, WHITE SPRINGS, FLORIDA" DATED OCTOBER 14, 2010. SPECIFIC REQUIREMENTS AND/OR RECOMMENDATIONS MAY BE CALLED OUT IN THESE PLANS, HOWEVER, THAT DOES NOT RELIEVE THE CONTRACTOR FROM MEETING ALL REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE REPORT. A COPY OF THE REPORT IS AVAILABLE FROM SRWMD.
3. PER RECOMMENDATION 6.3.1, SOIL OF THE TYPE IDENTIFIED IN THE REPORT AT STRATUM 4 IS NOT SUITABLE FOR BACKFILL AND SHALL BE REMOVED FROM THE SITE AND APPROPRIATELY DISPOSED OF AT THE CONTRACTORS EXPENSE.
4. PER RECOMMENDATION 6.3.5, BACKFILL BEHIND THE WALLS SHALL CONSIST OF THE PREVIOUSLY STOCKPILED SUITABLE SOILS (STRATA 2, 2A, 2B, AND 3), PLACED IN 12-INCH MAXIMUM LOOSE LIFTS, AND EACH LIFT COMPACTED WITHIN A RANGE OF 90% TO 94% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557). DO NO OVER-COMPACT THE BACKFILL SOILS.
5. ADDITIONAL SOILS NEEDED FOR BACKFILL MUST BE OF THE TYPE IDENTIFIED AS STRATUM 3 WITH LESS THAN 15% PASSING THE US NO. 200 SIEVE.

NO.	DATE	DESCRIPTION	REVISIONS
DESIGNED BY:	S.F.W.	CHECKED BY:	M.P.T.
DRAWN BY:	S.F.W.	SCALE:	N.T.S.
PROJECT NUMBER:	8039-011	DATE:	08/25/10

**GENESIS GROUP**  
 GGI, LLC dba GENESIS GROUP  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 FL CA 00009660 FL LB 0006816 FL IC 26000202 (850) 224-4400 (850) 681-3600 FAX



PREPARED FOR

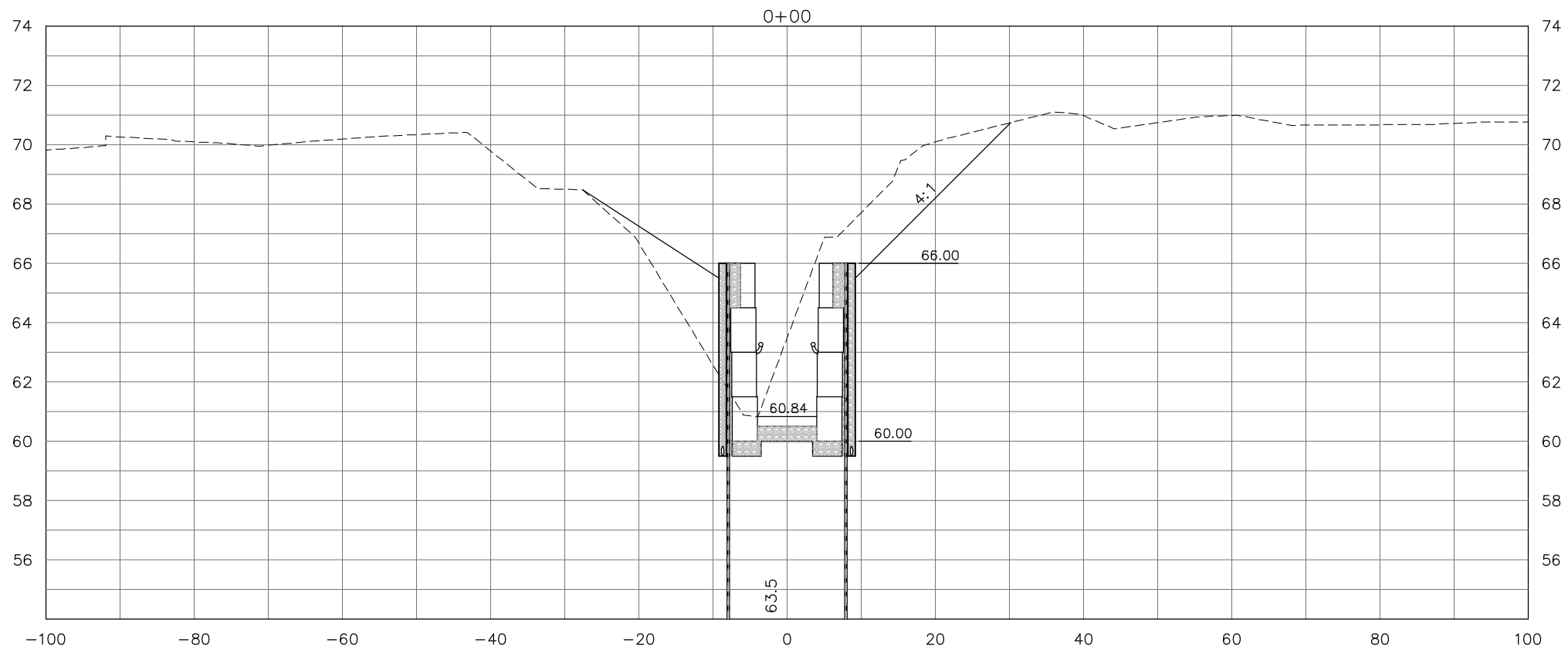
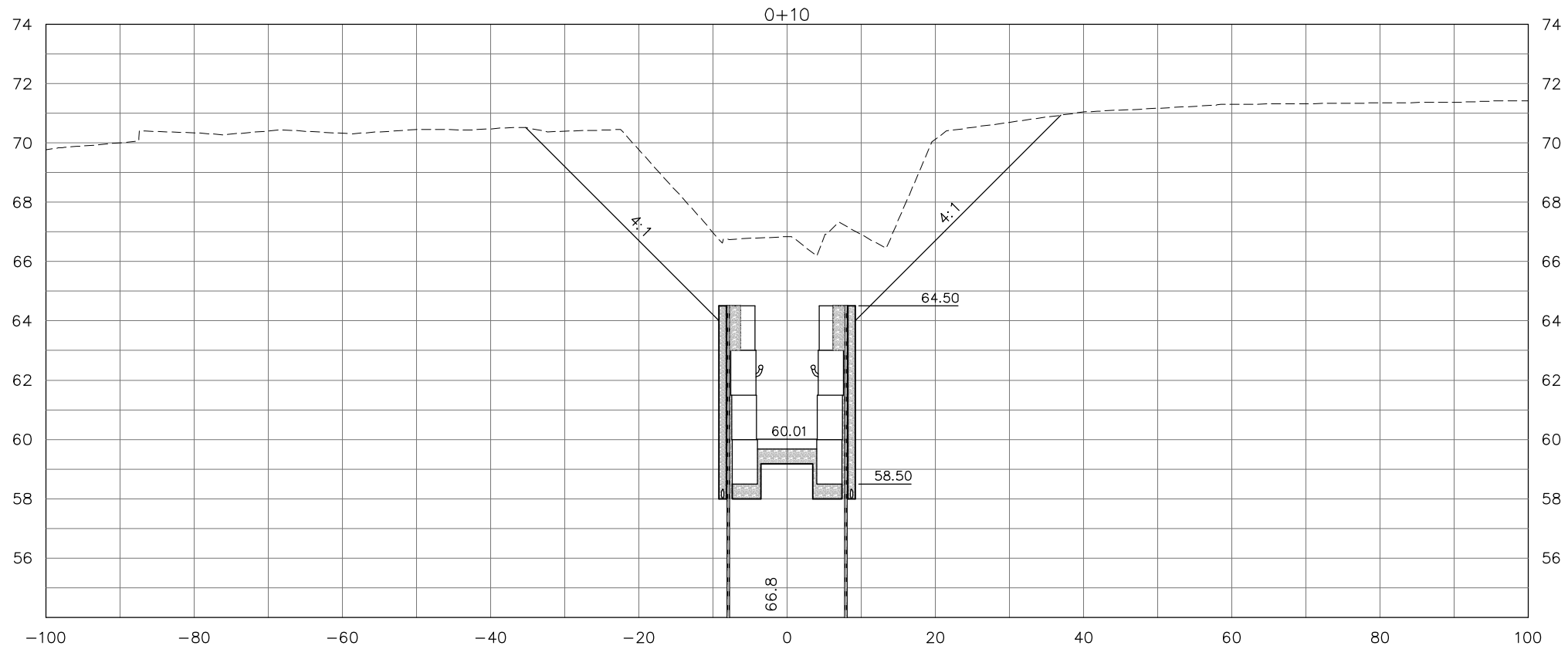


SEAL  
 Mark P. Thompson, P.E.  
 License Number 48287

**TYPICAL SECTION**

**BLUE SINK RIVER ACCESS RESTORATION**

SHEET NUMBER: **9**



GEOTECHNICAL INFORMATION PROVIDED BY:  
**Ardaman & Associates, Inc.**  
 3175 W. Thorpe Street  
 Tallahassee, Florida 32303  
 (850) 576-6131

NOTE: SOIL AND GROUNDWATER DETAILS PROVIDED BY  
**ARDAMAN & ASSOCIATES, INC.** DATE OF TEST BORINGS  
 OF WATER TABLE DATA WAS 5/8/09.

CROSS SECTION SCALE  
 HORIZONTAL 1" = 20'  
 VERTICAL 1" = 5'

EXISTING PROFILE AND CROSS SECTION DATA BASED ON SURVEY  
 INFORMATION PROVIDED BY: DANIEL & GORE, LLC  
 PROFESSIONAL SURVEYING AND MAPPING (DATED 12/29/09)

NO.	DATE	DESCRIPTION	REVISIONS
DESIGNED BY:	S.R.W.	CHECKED BY:	M.P.T.
DRAWN BY:	S.R.W.	SCALE:	AS SHOWN
PROJECT NUMBER:	8039-011		DATE:
		12/23/10	

**GENESIS GROUP**  
 GGI, LLC dba GENESIS GROUP  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 FL-CA 00009660 FL-LB 0006816 FL-IC 26000202 (850) 224-4400 (850) 681-3600 FAX

**SUNANNEE RIVER WATER  
 MANAGEMENT DISTRICT**

PREPARED FOR

SEAL

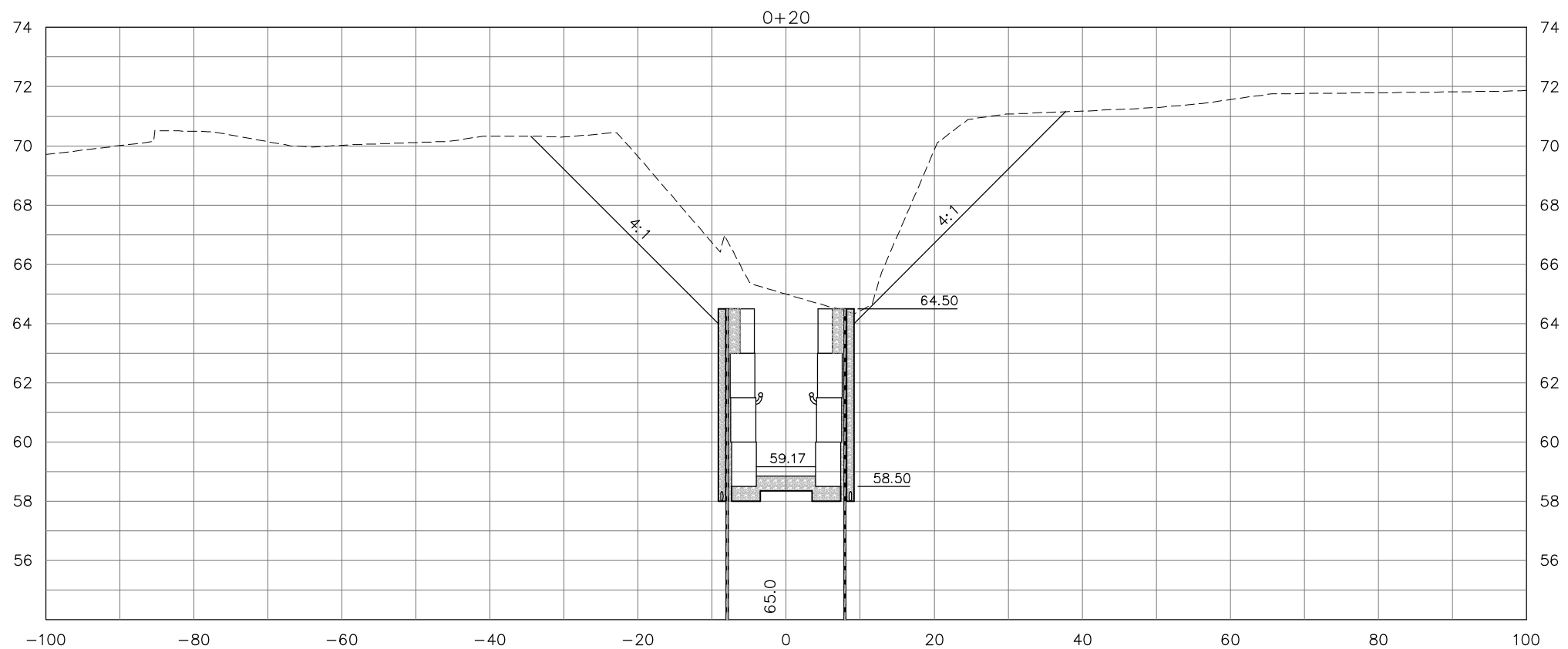
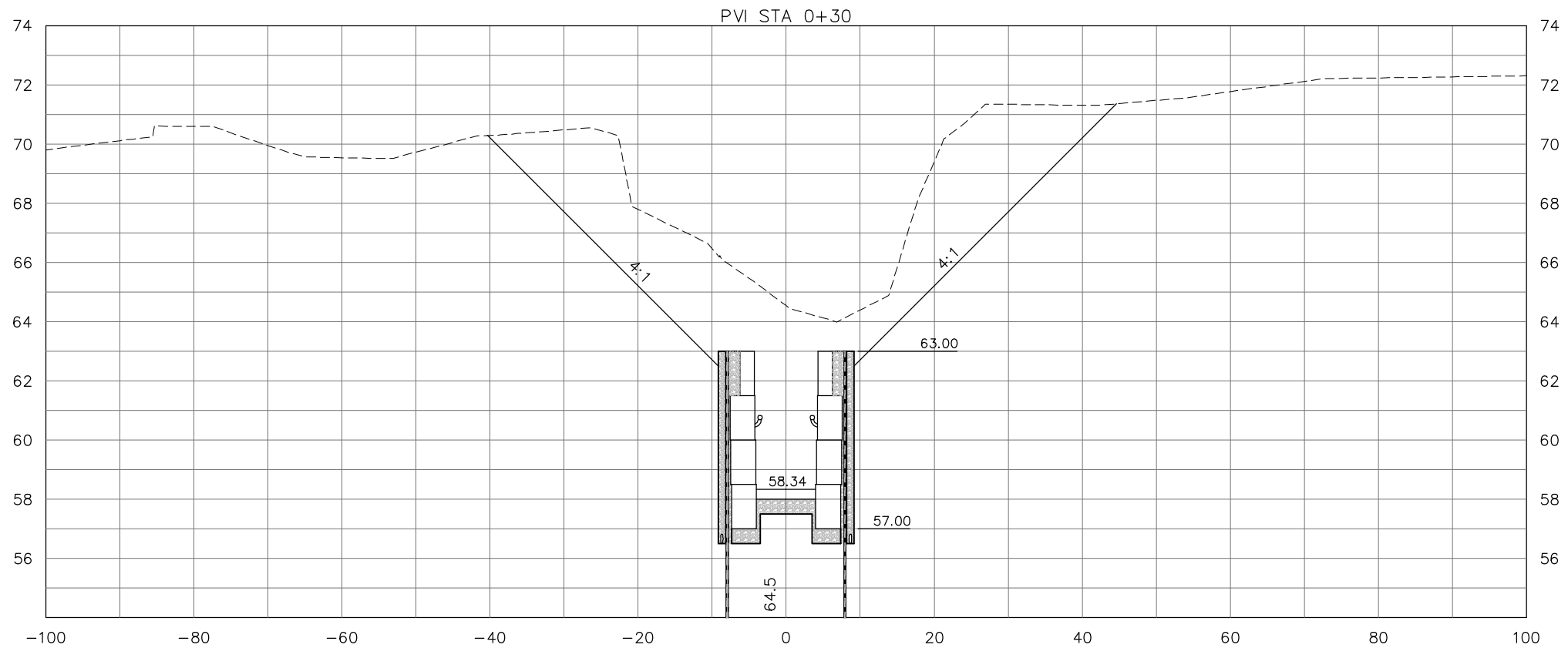
Mark P. Thompson, P.E.  
 License Number 48287

SHEET TITLE  
**CROSS SECTIONS**

PROJECT NAME  
**BLUE SINK  
 RIVER ACCESS RESTORATION**

SHEET NUMBER  
**10**

December 23, 2010 (1:54:46 PM)  
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GEOTECHNICAL INFORMATION PROVIDED BY:  
**Ardaman & Associates, Inc.**  
 3175 W. Thorpe Street  
 Tallahassee, Florida 32303  
 (850) 576-6131

NOTE: SOIL AND GROUNDWATER DETAILS PROVIDED BY  
**ARDAMAN & ASSOCIATES, INC.** DATE OF TEST BORINGS  
 OF WATER TABLE DATA WAS 5/8/09.

CROSS SECTION SCALE  
 HORIZONTAL 1" = 20'  
 VERTICAL 1" = 5'

EXISTING PROFILE AND CROSS SECTION DATA BASED ON SURVEY  
 INFORMATION PROVIDED BY: DANIEL & GORE, LLC  
 PROFESSIONAL SURVEYING AND MAPPING (DATED 12/29/09)

NO.	DATE	DESCRIPTION	REVISIONS
DESIGNED BY:	S.R.W.	CHECKED BY:	M.P.T.
DRAWN BY:	S.R.W.	SCALE:	AS SHOWN
PROJECT NUMBER:	8039-011		DATE:
		12/23/10	

**GENESIS GROUP**  
 GGI, LLC dba GENESIS GROUP  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 FL CA 00009660 FL LB 0006816 FL IC 26000202 (850) 224-4400 (850) 681-3600 FAX

**SUNANEE RIVER WATER MANAGEMENT DISTRICT**

PREPARED FOR:

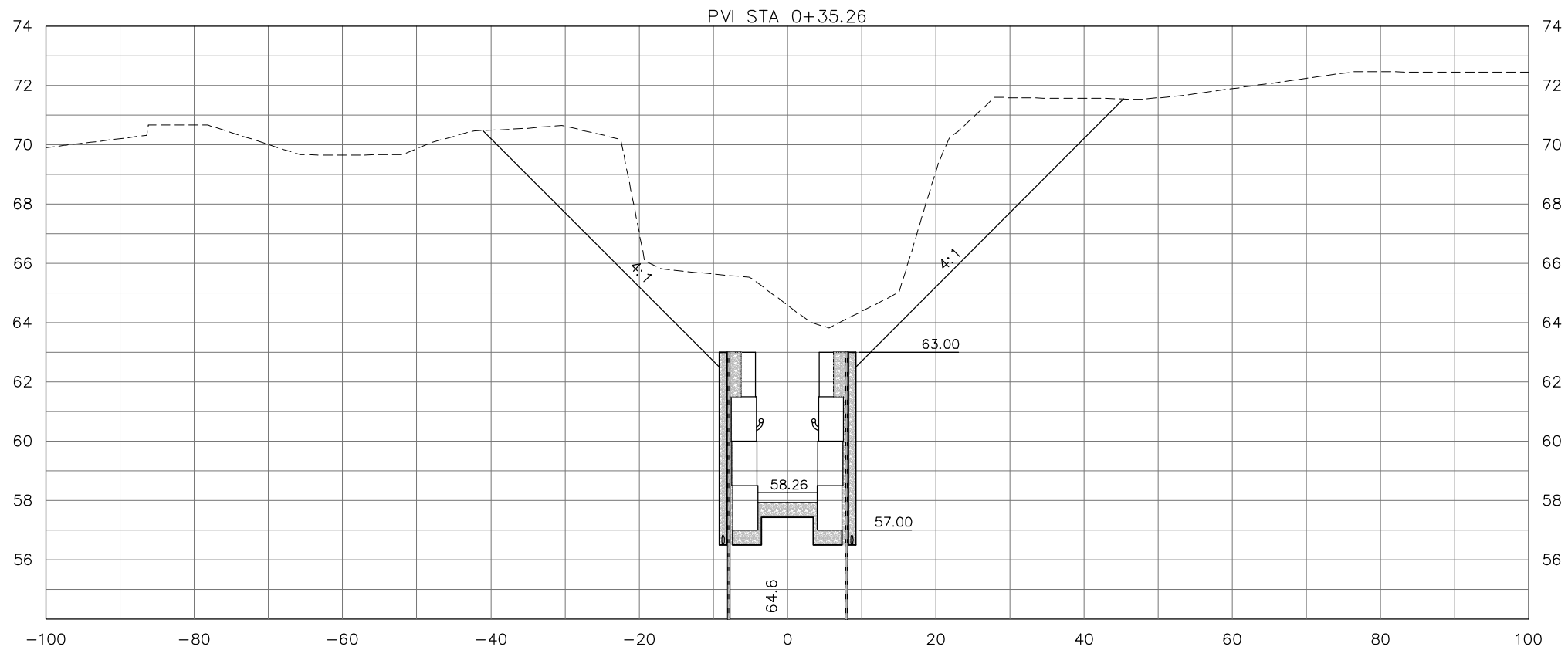
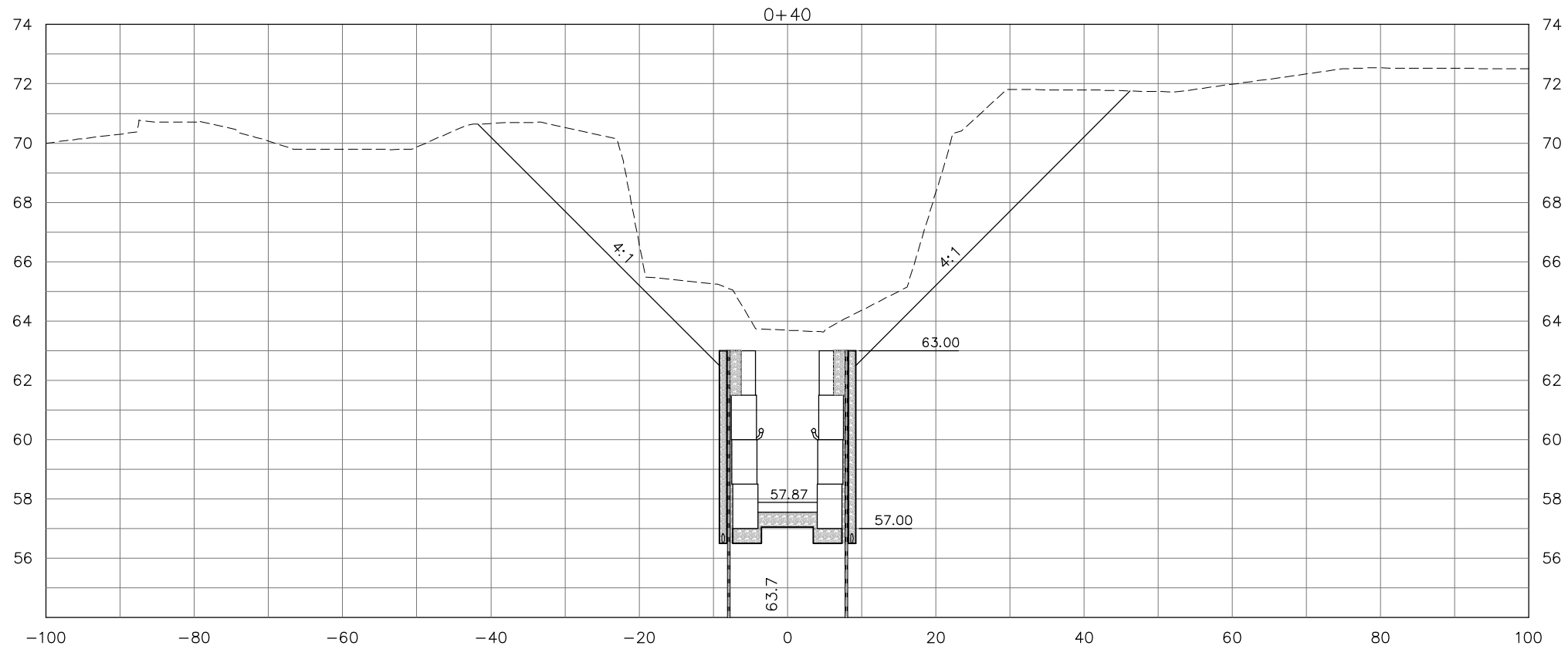
SEAL

Mark P. Thompson, P.E.  
 License Number 48287

SHEET TITLE  
**CROSS SECTIONS**

PROJECT NAME  
**BLUE SINK RIVER ACCESS RESTORATION**

December 23, 2010 (1:54:46 PM)  
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 3175 W. Thorpe Street  
 Tallahassee, Florida 32303  
 (850) 576-6131

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PROJECT NUMBER	8039-011		
DRAWN BY:	S.R.W.	SCALE:	AS SHOWN
DATE	12/23/10		

GGI, LLC dba GENESIS GROUP  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 FL CA 00009660 FL LB 0006816 FL IC 26000202 (850) 224-4400 (850) 681-3600 FAX

**GENESIS GROUP**  
 PROMOTING REALITY TO HEALTHY COMMUNITIES

PREPARED FOR  


**SUNANNEE RIVER WATER  
 MANAGEMENT DISTRICT**

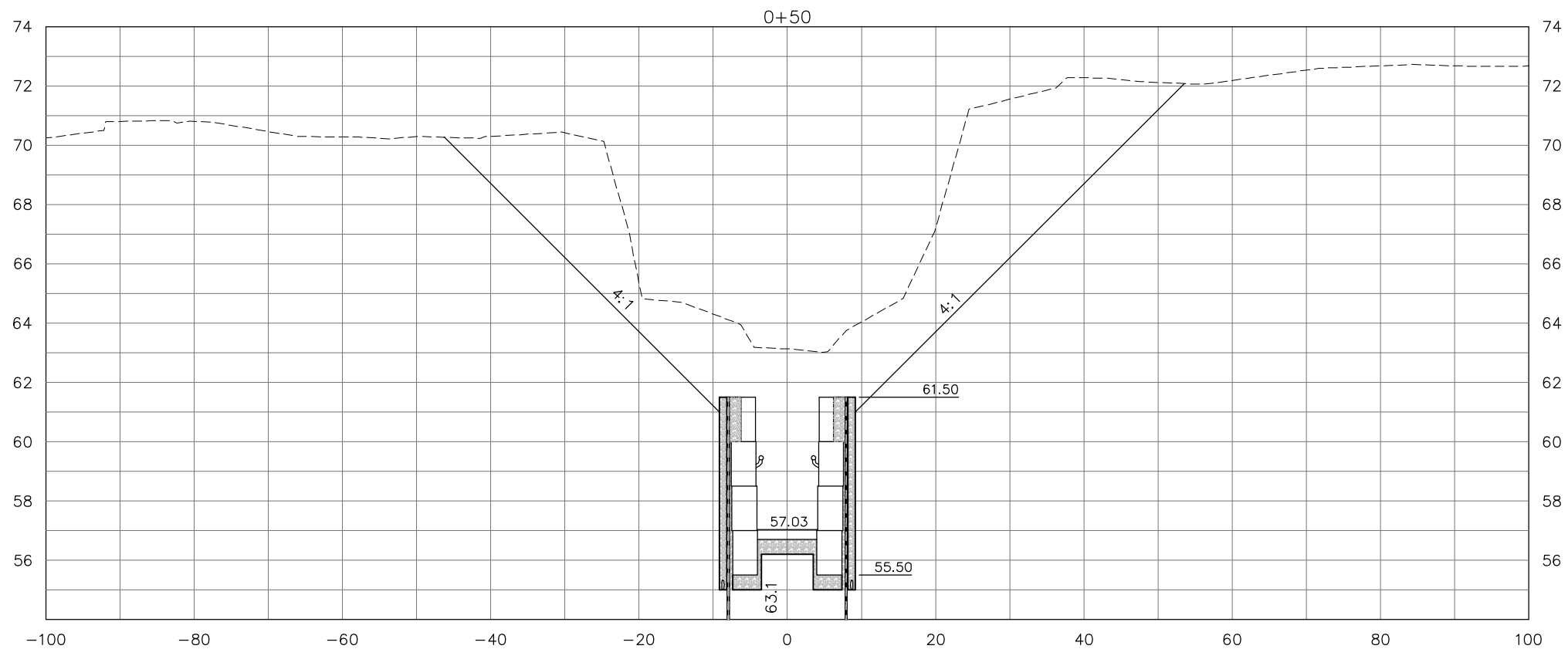
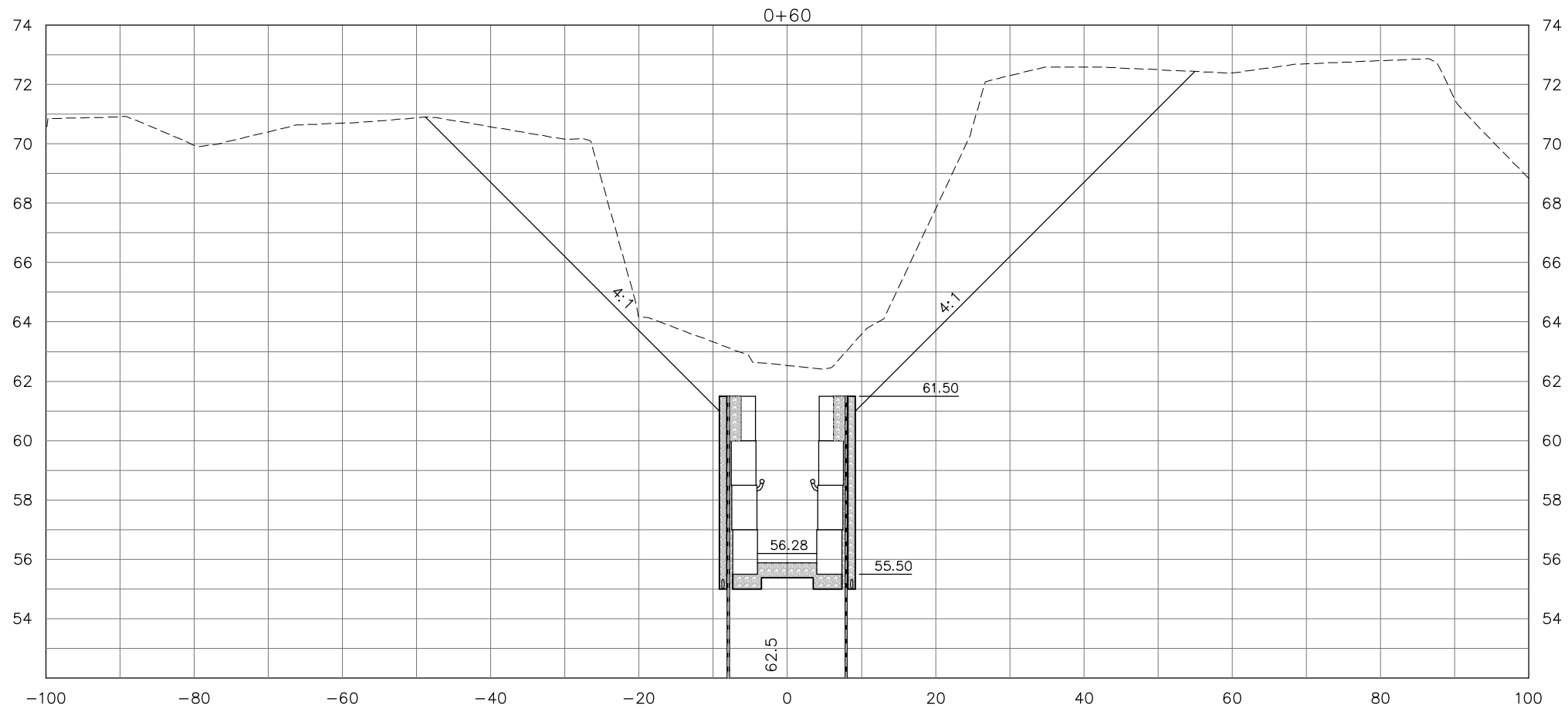
SEAL

Mark P. Thompson, P.E.  
 License Number 48287

SHEET TITLE  
**CROSS SECTIONS**

PROJECT NAME  
**BLUE SINK  
 RIVER ACCESS RESTORATION**

December 23, 2010 (1:54:46 PM)  
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CROSS SECTION SCALE  
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 Tallahassee, Florida 32303  
 (850) 576-6131

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DRAWN BY:	S.R.W.	SCALE:	AS SHOWN
PROJECT NUMBER:	8039-011		DATE:
PROJECT NUMBER:		12/23/10	

**GENESIS GROUP**  
 GGI, LLC dba GENESIS GROUP  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 FLORIDA PROFESSIONAL ENGINEERING LICENSE NO. 00006816  
 FLORIDA PROFESSIONAL SURVEYING LICENSE NO. 00000202  
 (850) 224-4400 (850) 681-3600 FAX

**SUNANNEE RIVER WATER MANAGEMENT DISTRICT**

PREPARED FOR:

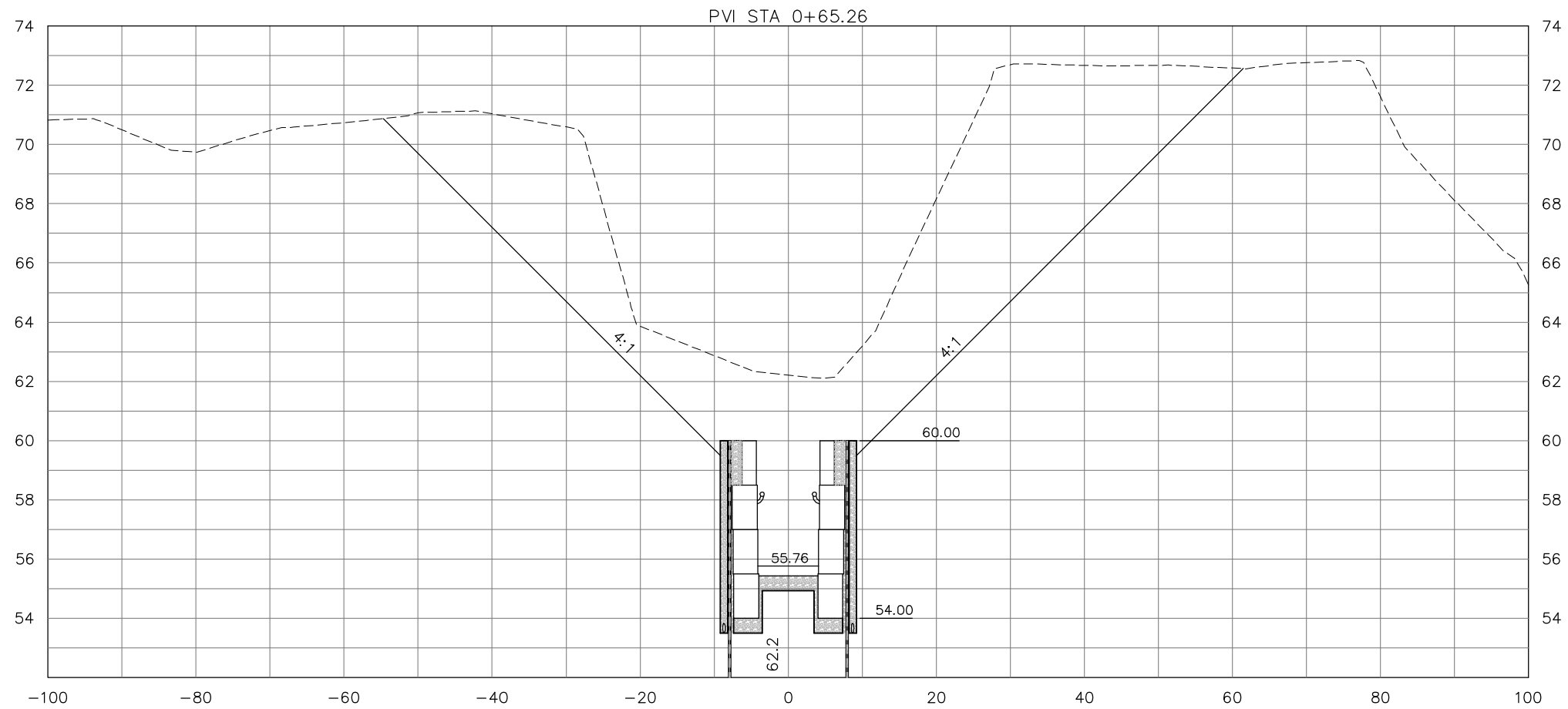
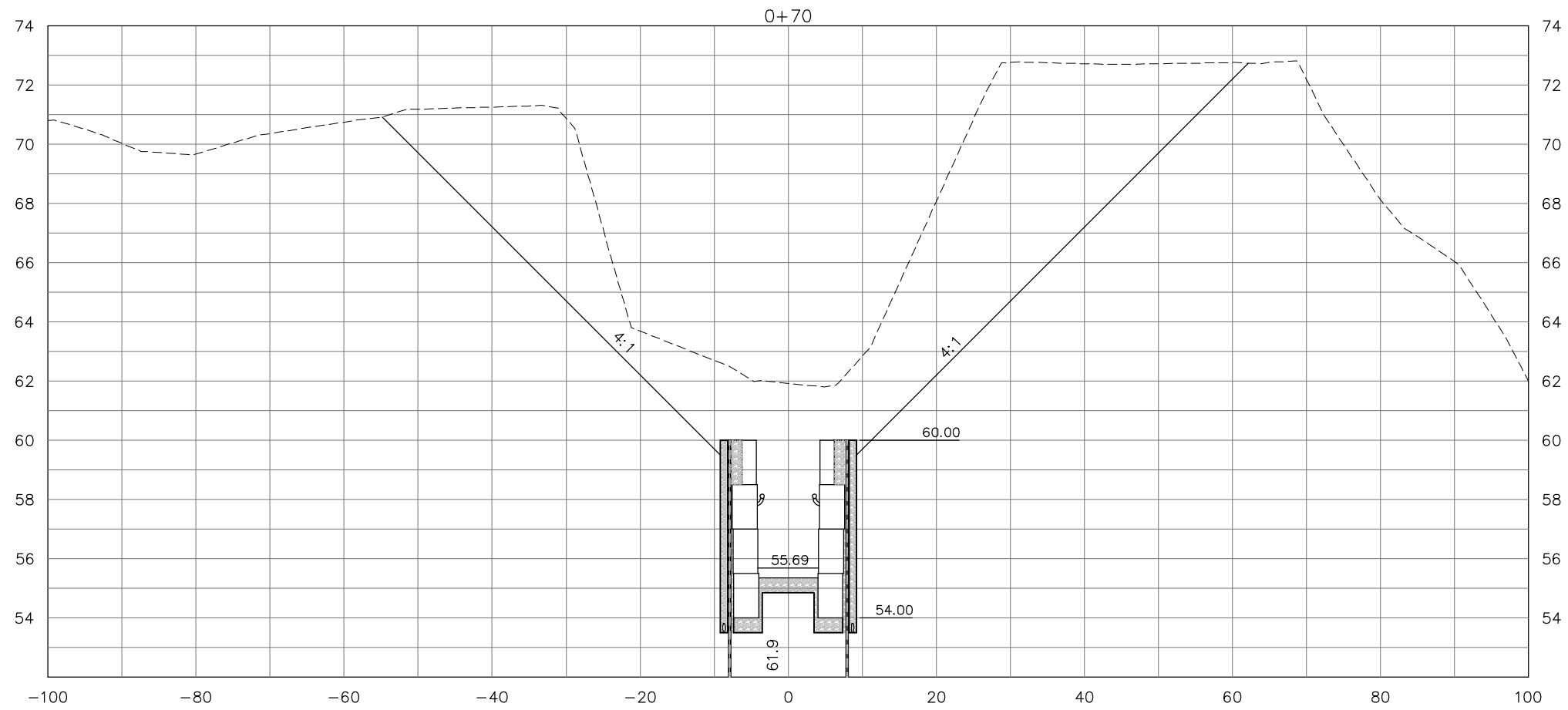
SEAL

Mark P. Thompson, P.E.  
 License Number 48287

SHEET TITLE  
**CROSS SECTIONS**

PROJECT NAME  
**BLUE SINK RIVER ACCESS RESTORATION**

December 23, 2010 (1:54:46 PM)  
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CROSS SECTION SCALE  
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		DATE:	12/23/10

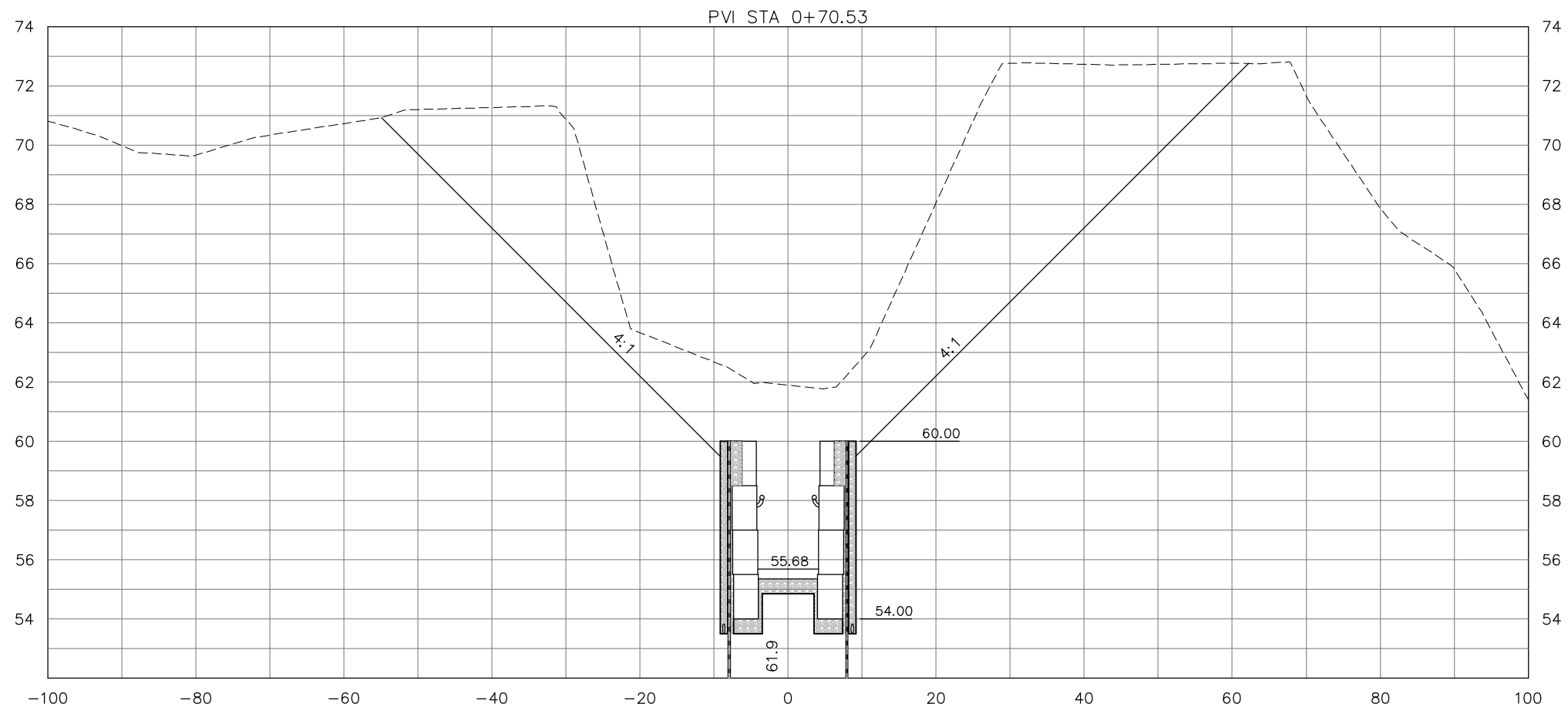
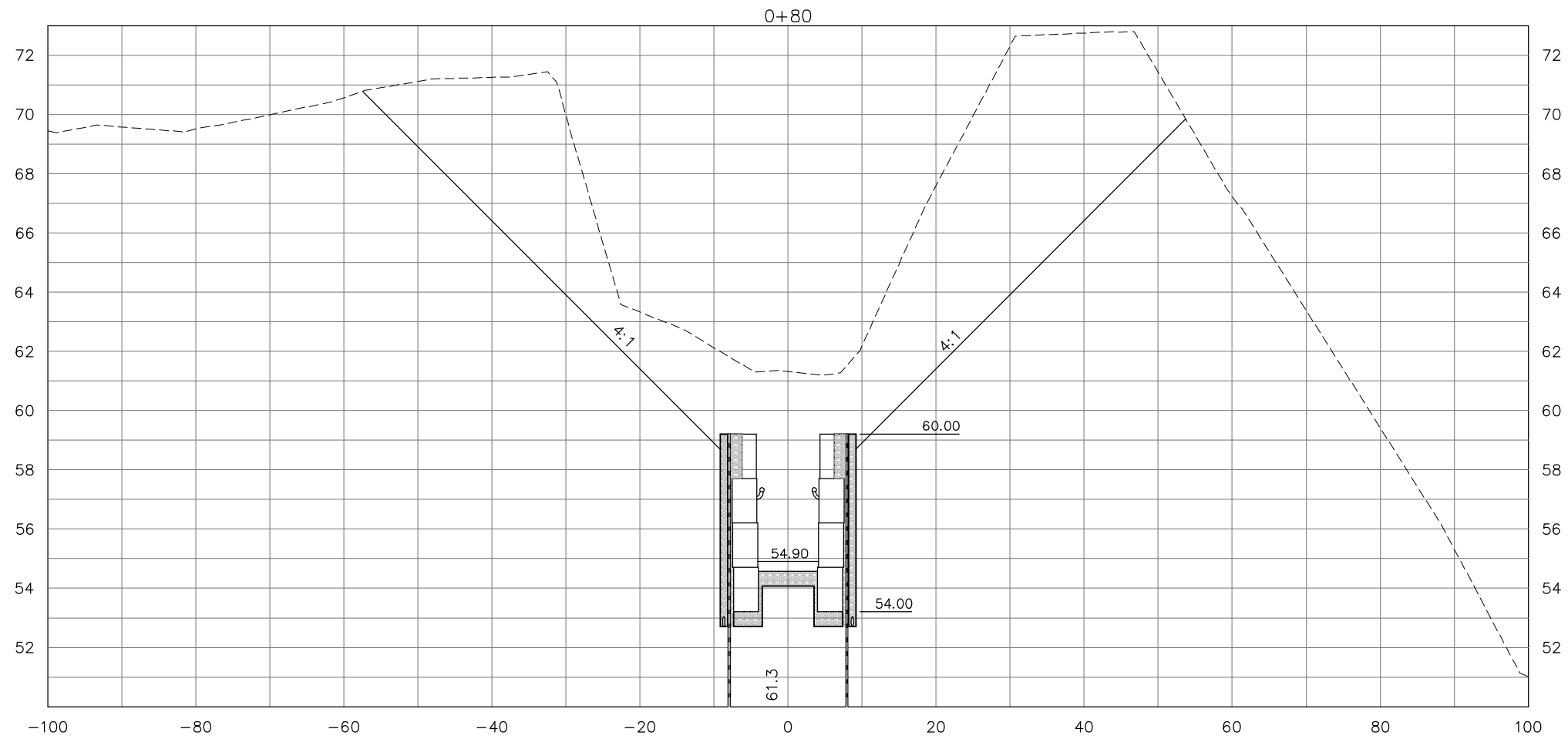
**GENESIS GROUP**  
 GGI, LLC dba GENESIS GROUP  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 FL CA 00009660 FL LB 0006816 FL IC 26000202 (850) 224-4400 (850) 681-3600 FAX

**SUNANEE RIVER WATER  
 MANAGEMENT DISTRICT**

PREPARED FOR  
  
 Mark P. Thompson, P.E.  
 License Number 48287

**CROSS  
 SECTIONS**  
**BLUE SINK  
 RIVER ACCESS RESTORATION**

December 23, 2010 (1:54:46 PM)  
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GEOTECHNICAL INFORMATION PROVIDED BY:

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3175 W. Thorpe Street  
Tallahassee, Florida 32303  
(850) 576-6131

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		PROJECT NUMBER:	8039-011
		DATE:	12/23/10

**GENESIS GROUP**  
GGL, LLC dba GENESIS GROUP  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
FL CA 00009660 FL LB 0006816 FL IC 26000202 (850) 224-4400 (850) 681-3600 FAX

**SUNANEE RIVER WATER  
MANAGEMENT DISTRICT**

PREPARED FOR  
SUNANEE RIVER WATER  
MANAGEMENT DISTRICT

SEAL

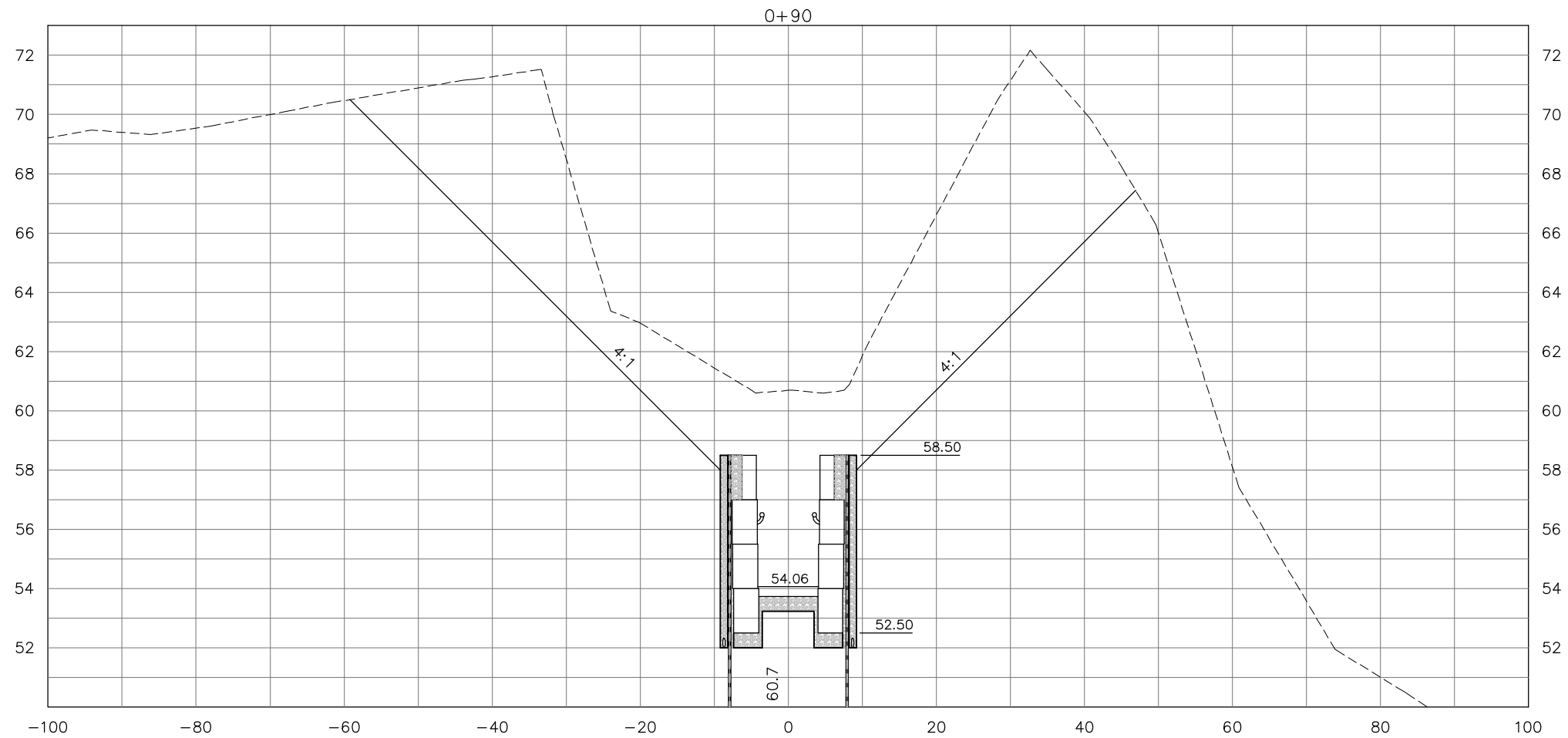
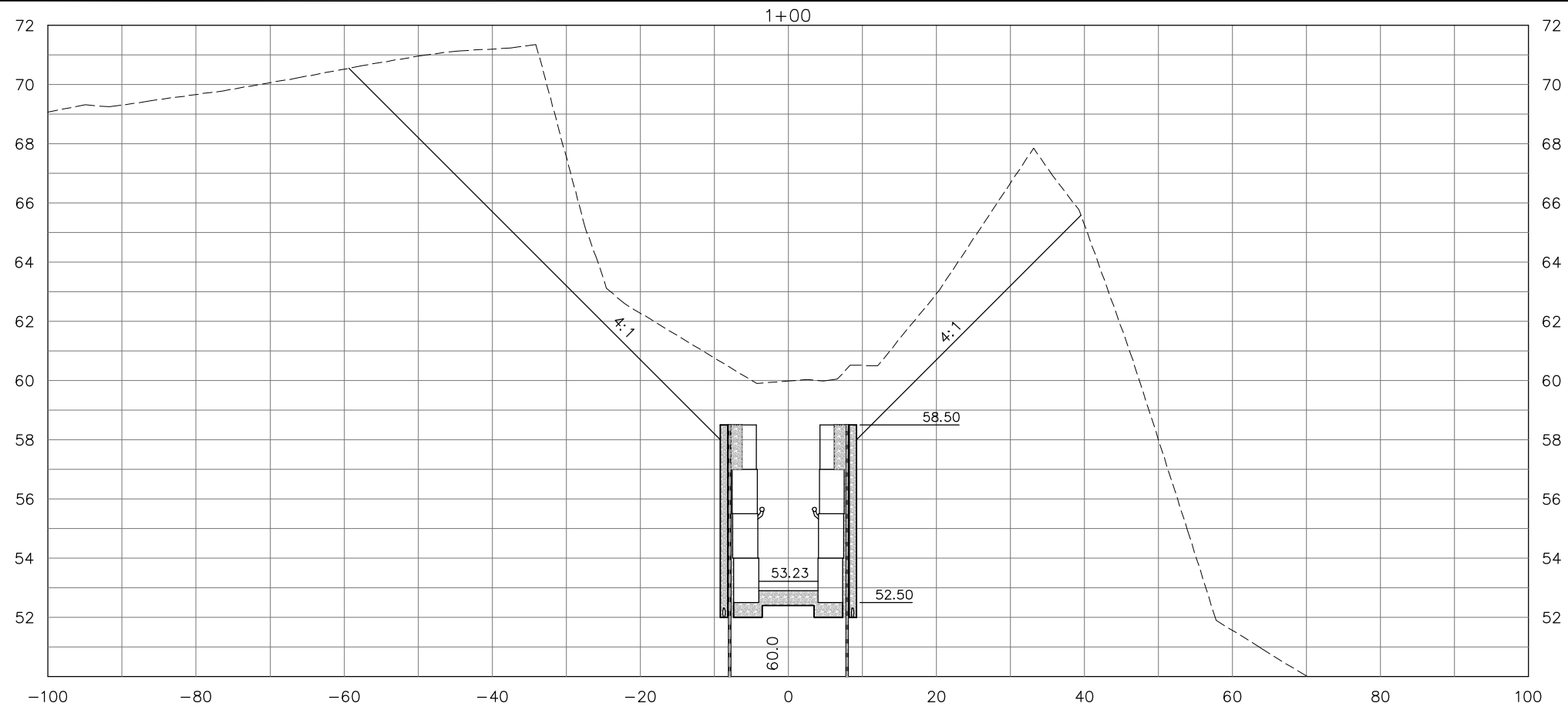
Mark P. Thompson, P.E.  
License Number 48287

SHEET TITLE  
**CROSS SECTIONS**

PROJECT NAME  
**BLUE SINK  
RIVER ACCESS RESTORATION**

SHEET NUMBER  
**15**

Drawing: 25\_2910 (11x14x16.dwg) 12/23/10 10:00 AM (SUBMITTALS) 10/26/09 8:03 AM (LAYOUT) DWG



GEOTECHNICAL INFORMATION PROVIDED BY:  
**Ardaman & Associates, Inc.**  
 3175 W. Thorpe Street  
 Tallahassee, Florida 32303  
 (850) 576-6131

NOTE: SOIL AND GROUNDWATER DETAILS PROVIDED BY  
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PROJECT NUMBER	8039-011		
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DATE	12/23/10		

**GENESIS GROUP**  
 GGI, LLC dba GENESIS GROUP  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 FLORIDA LICENSE NO. FL-IC 26000202 (850) 224-4400 (850) 681-3600 FAX

**SUNANNEE RIVER WATER  
 MANAGEMENT DISTRICT**

PREPARED FOR:

SEAL

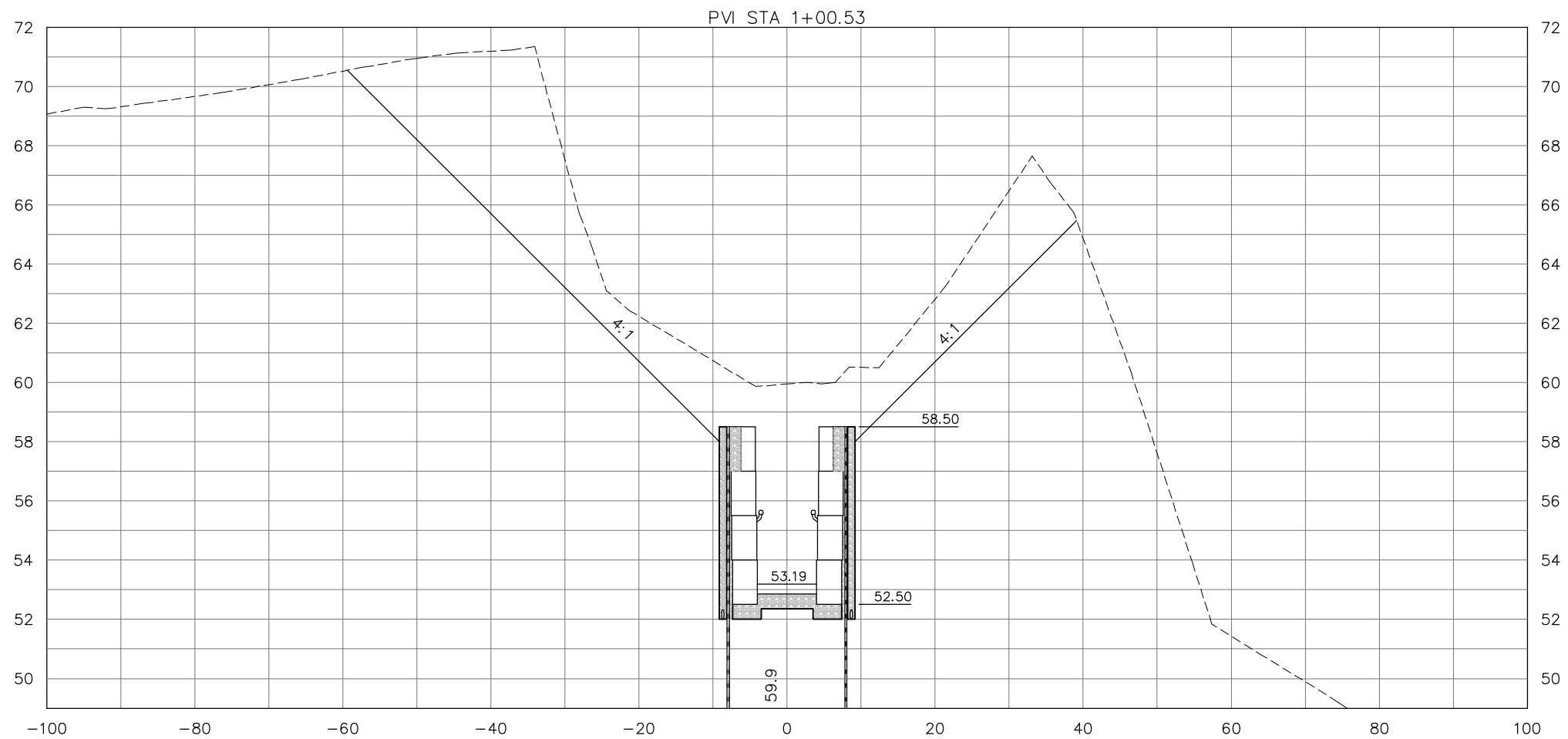
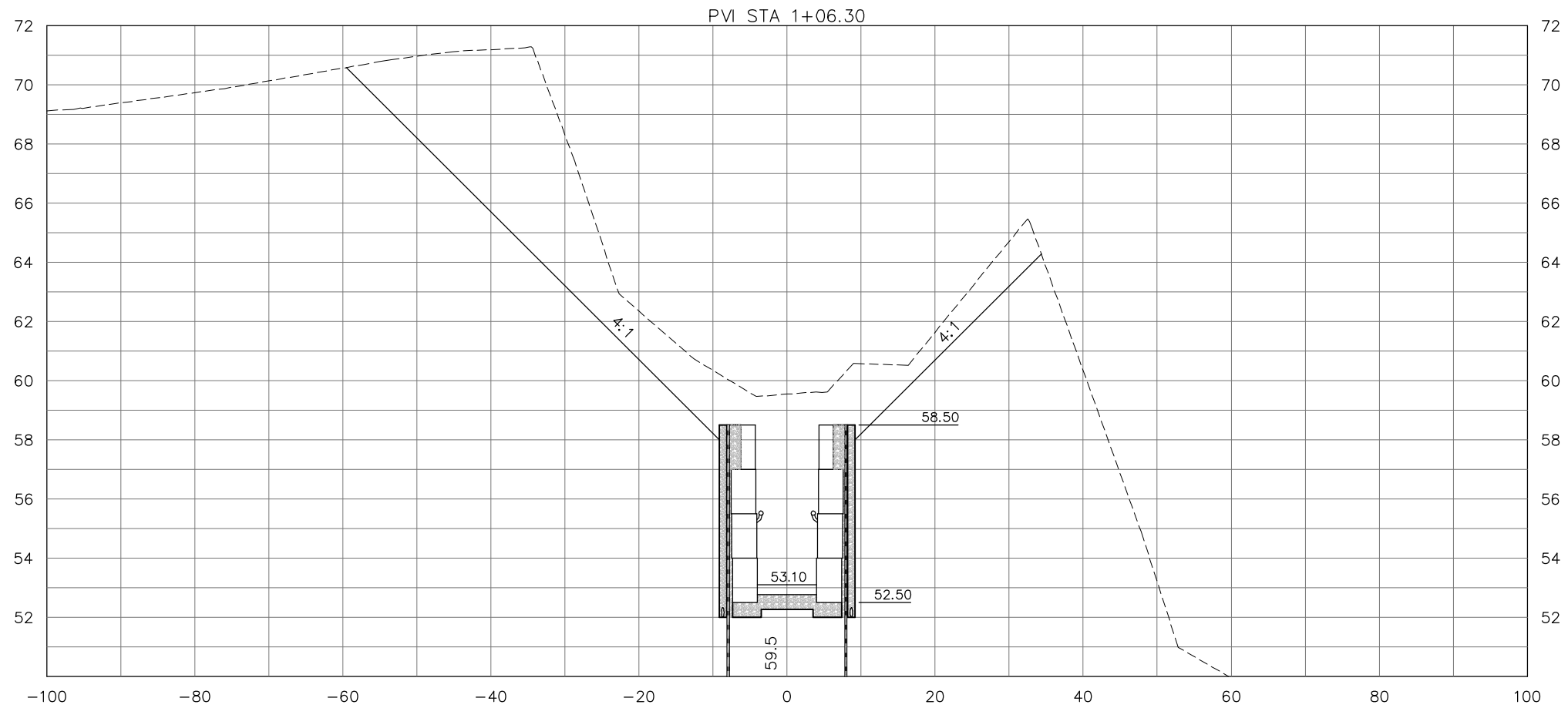
Mark P. Thompson, P.E.  
 License Number 48287


SHEET TITLE  
**CROSS SECTIONS**

PROJECT NAME  
**BLUE SINK  
 RIVER ACCESS RESTORATION**

December 23, 2010 (1:54:46 PM)  
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 Tallahassee, Florida 32303  
 (850) 576-6131


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		PROJECT NUMBER:	8039-011
		DATE:	12/23/10

**GENESIS GROUP**  
 GGI, LLC dba GENESIS GROUP  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 FL-CA 00009660 FL-LB 0006816 FL-IC 26000202 (850) 224-4400 (850) 681-3600 FAX

PREPARED FOR  

**SUNANNEE RIVER WATER  
MANAGEMENT DISTRICT**


SEAL  
 Mark P. Thompson, P.E.  
 License Number 48287

SHEET TITLE  
**CROSS SECTIONS**  
 PROJECT NAME  
**BLUE SINK  
RIVER ACCESS RESTORATION**

SHEET NUMBER  
**17**

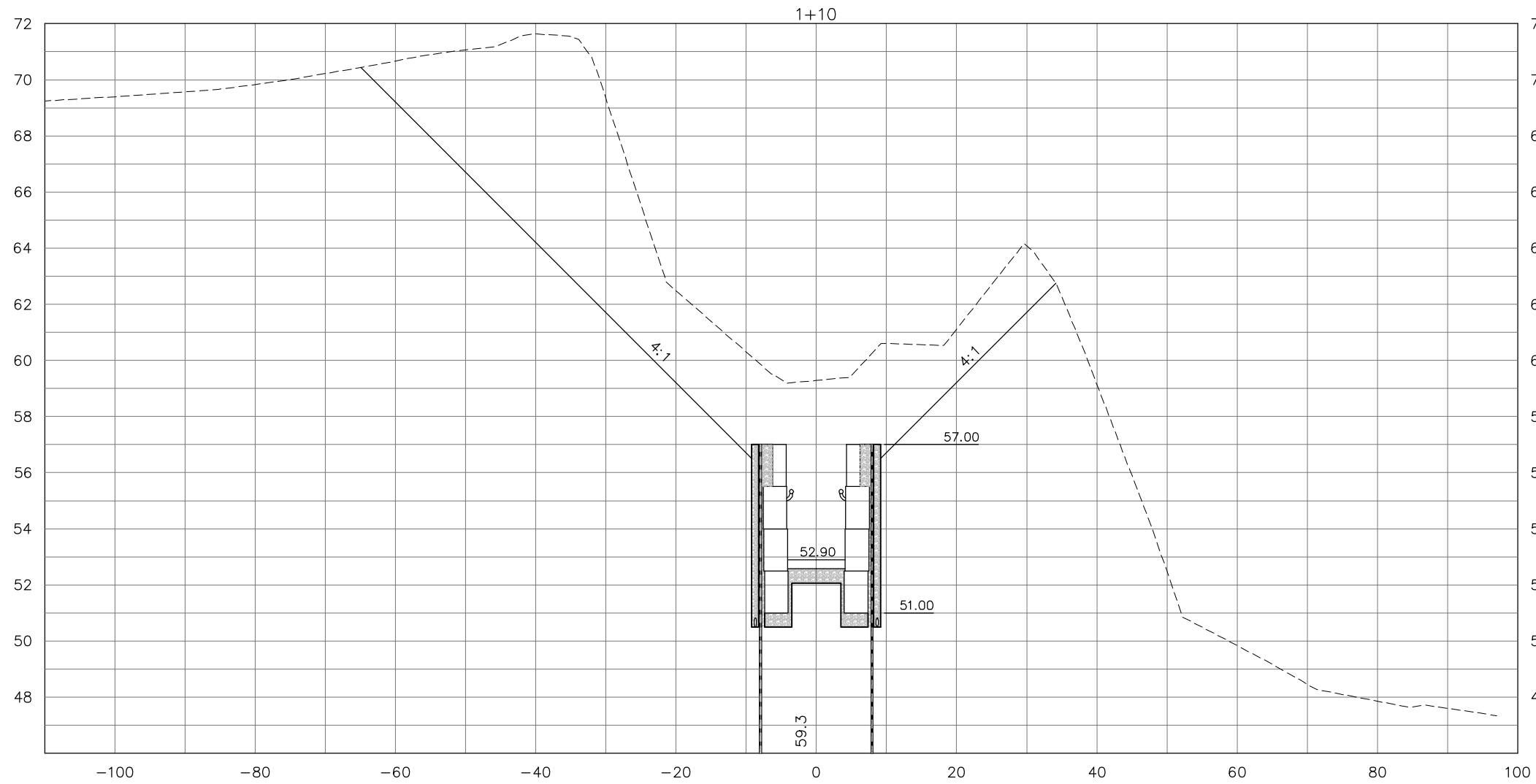
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GEOTECHNICAL INFORMATION PROVIDED BY:  

**Ardaman & Associates, Inc.**  
 3175 W. Thorpe Street  
 Tallahassee, Florida 32303  
 (850) 576-6131

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PROJECT NUMBER:	8039-011	DATE:	12/23/10
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**GENESIS GROUP**  
 GGI, LLC dba GENESIS GROUP  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 FLORIDA LICENSE NO. 0006816  
 FLORIDA LICENSE NO. 26000202  
 (850) 224-4400 (850) 681-3600 FAX

**SUNANNEE RIVER WATER  
 MANAGEMENT DISTRICT**

PREPARED FOR  



SEAL  
 Mark P. Thompson, P.E.  
 License Number 48287

**CROSS SECTIONS**  
**BLUE SINK**  
**RIVER ACCESS RESTORATION**

SHEET TITLE  
 PROJECT NAME  
 SHEET NUMBER

**18**

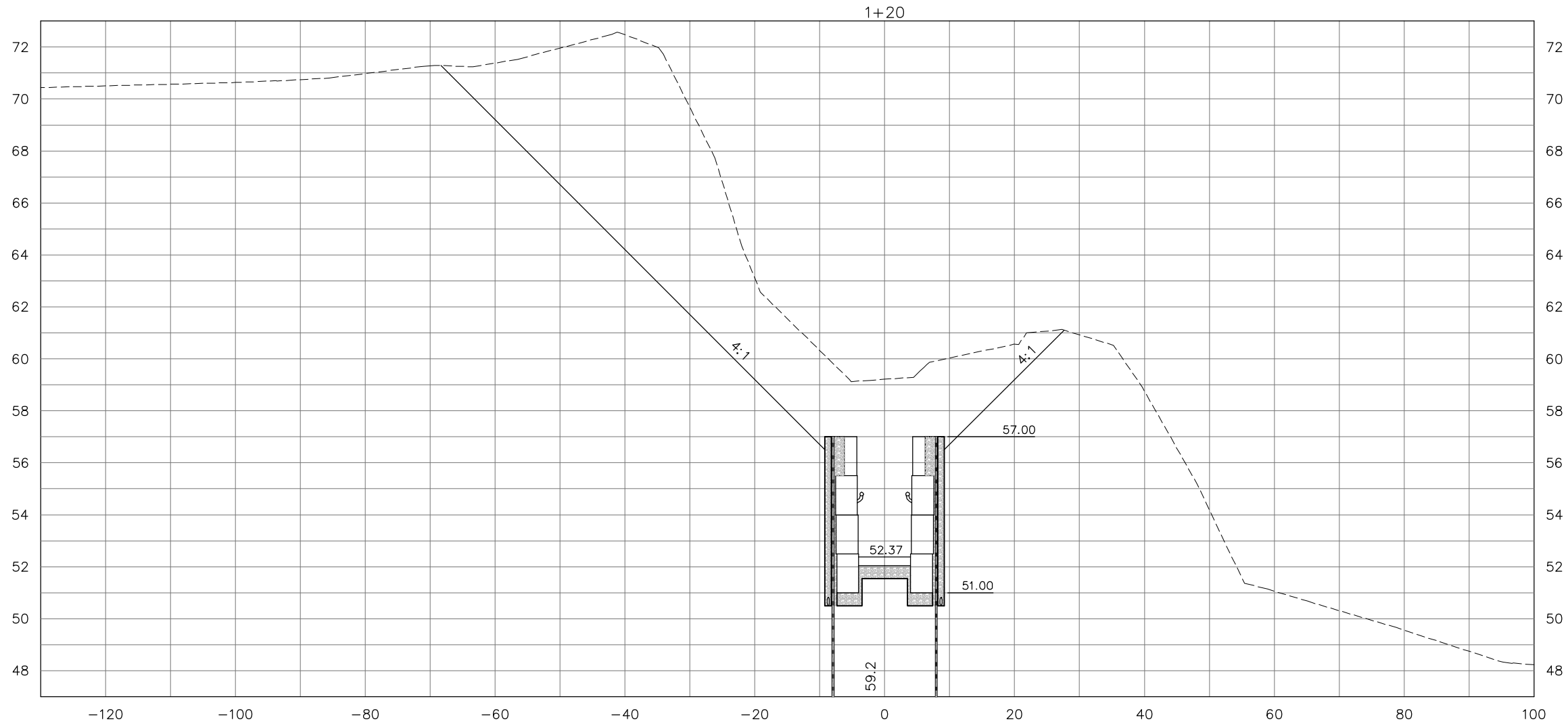
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3175 W. Thorpe Street  
Tallahassee, Florida 32303  
(850) 576-6131

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		DATE:	12/23/10

**GENESIS GROUP**  
 PROMOTION TO HEALTHY TALLAHASSEE, FLORIDA 32303  
 FL CA 00009660 FL LB 0006816 FL IC 26000202 (850) 224-4400 (850) 681-3600 FAX


**SUWANNEE RIVER WATER  
MANAGEMENT DISTRICT**

PREPARED FOR  
  
 Mark P. Thompson, P.E.  
 License Number 48287

SHEET TITLE  
**CROSS SECTIONS**  
**BLUE SINK**  
**RIVER ACCESS RESTORATION**

SHEET NUMBER  
**19**

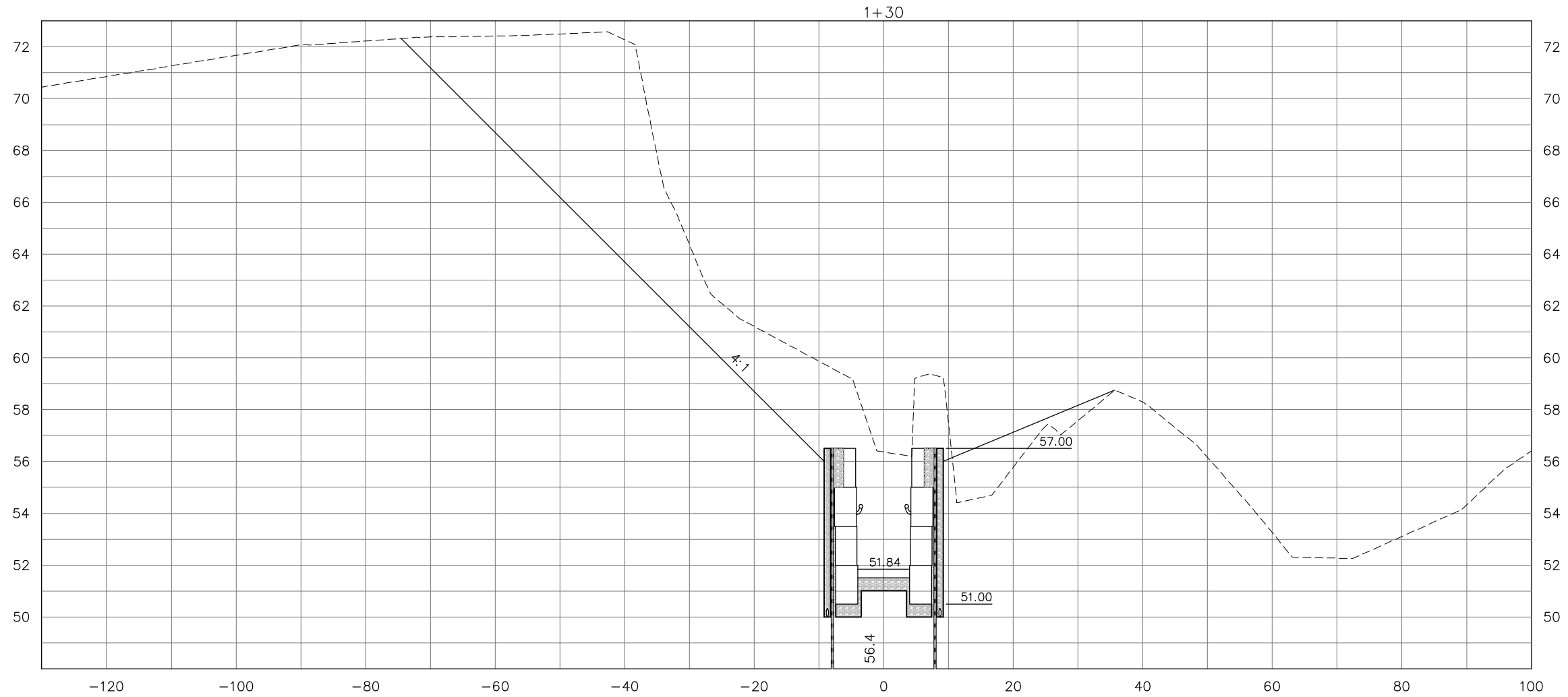
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 Tallahassee, Florida 32303  
 (850) 576-6131

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**GENESIS GROUP**  
 GGI, LLC dba GENESIS GROUP  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 FL CA 00009660 FL LB 0006816 FL IC 26000202 (850) 224-4400 (850) 681-3600 FAX

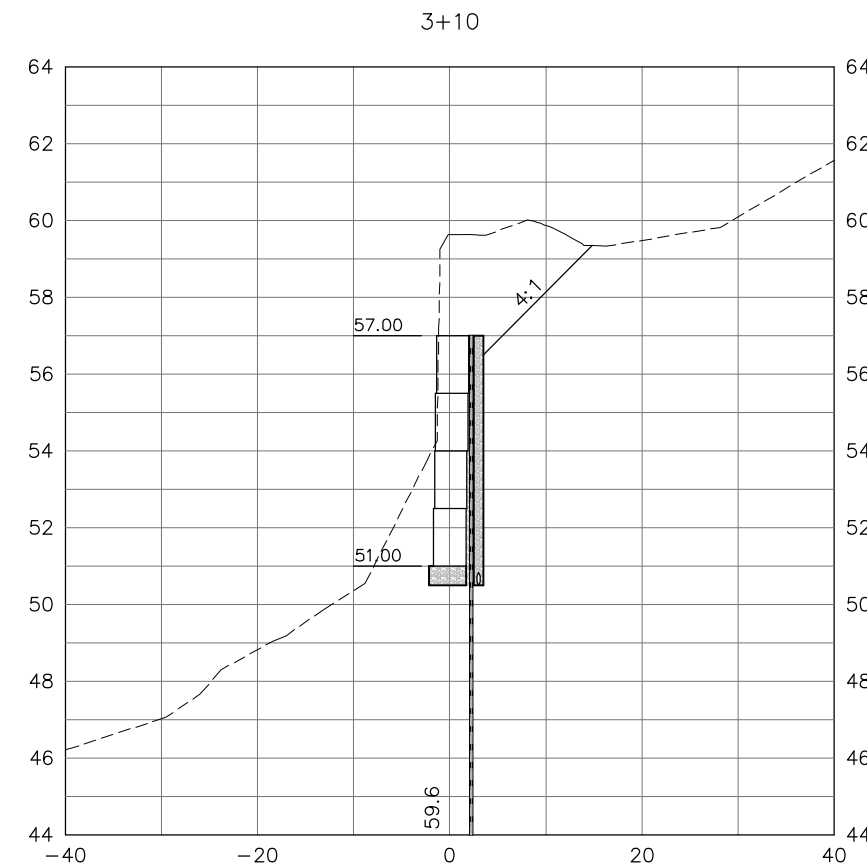
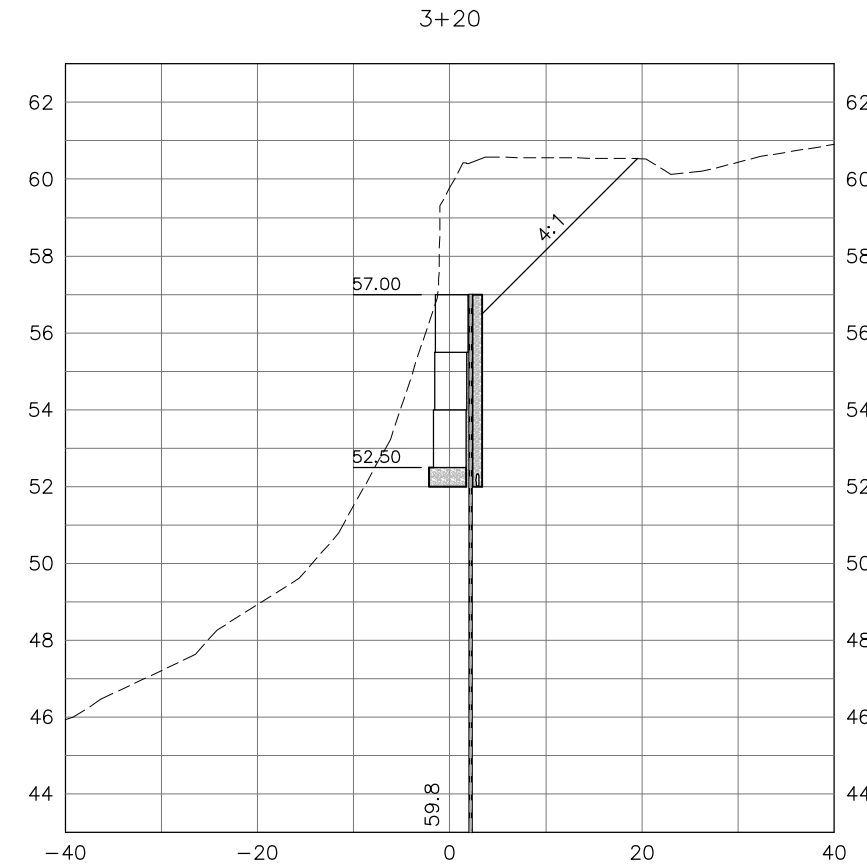
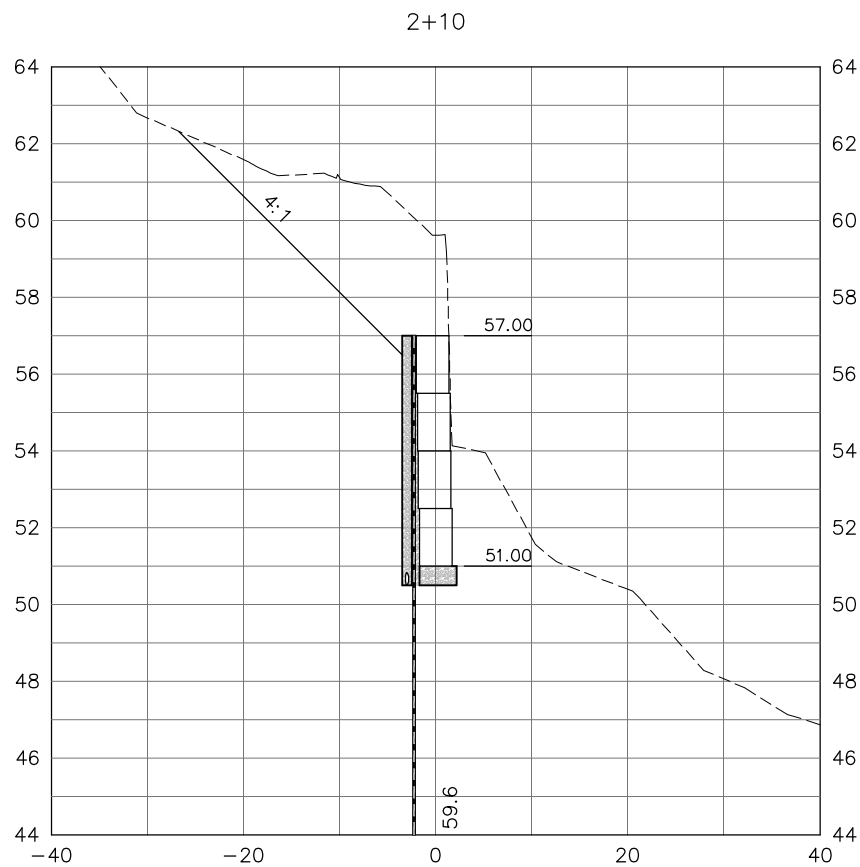
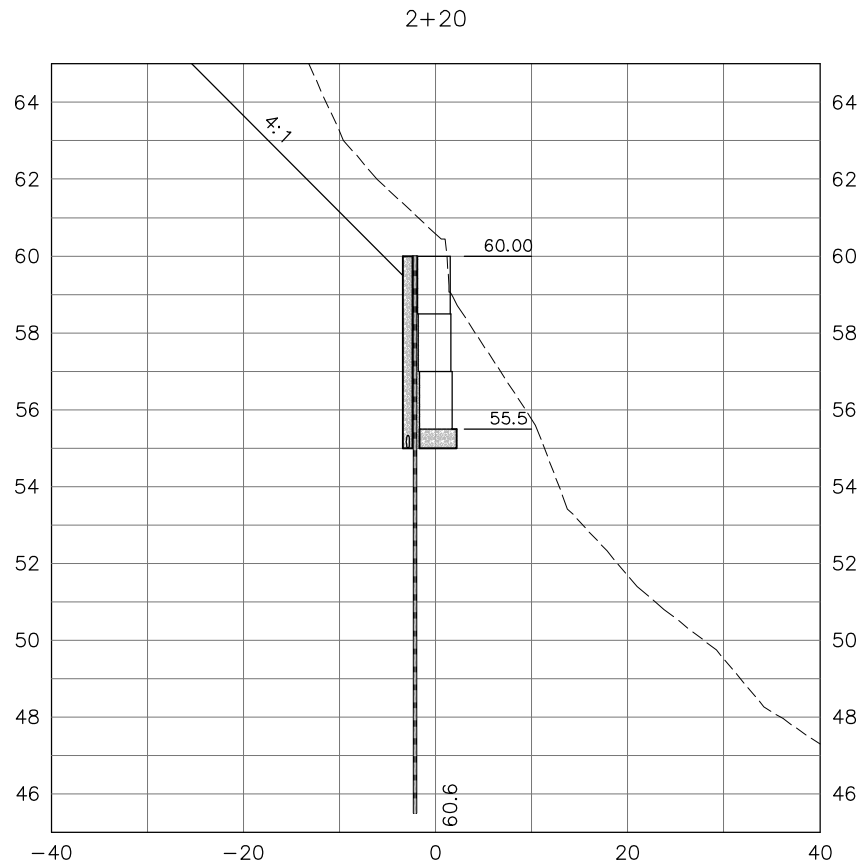
**SUWANNEE RIVER WATER MANAGEMENT DISTRICT**

PREPARED FOR:

SEAL  
 Mark P. Thompson, P.E.  
 License Number 48287

**CROSS SECTIONS**  
**BLUE SINK**  
**RIVER ACCESS RESTORATION**


SHEET NUMBER  
**20**






CROSS SECTION SCALE  
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December 23, 2010 (1:54:46 PM)  
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GEOTECHNICAL INFORMATION PROVIDED BY:  

**Ardaman & Associates, Inc.**  
 3175 W. Thorpe Street  
 Tallahassee, Florida 32303  
 (850) 576-6131

NOTE: SOIL AND GROUNDWATER DETAILS PROVIDED BY  
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 OF WATER TABLE DATA WAS 5/8/09.

 <b>GENESIS GROUP</b> PRODUCTIONS TO REALITY FL CA 00009660 FL LB 0006816 FL LC 26000202 (850) 224-4400 (850) 681-3600 FAX	 <b>SUNWATER</b> RIVER WATER MANAGEMENT DISTRICT	 Mark P. Thompson, P.E. License Number 48287	SHEET TITLE <b>CROSS SECTIONS</b> SHEET NUMBER <b>21</b>	PROJECT NAME <b>BLUE SINK RIVER ACCESS RESTORATION</b>	REVISIONS NO. DATE DESCRIPTION CHECKED BY: M.P.T. PROJECT NUMBER: 8039-011 DESIGNED BY: S.R.W. SCALE: AS SHOWN DRAWN BY: S.R.W. DATE: 12/23/10

**EROSION CONTROL NOTES**

1. THE CONTRACTOR SHALL VERIFY ANY UTILITY LOCATIONS BEFORE CONSTRUCTION.
2. THE CONTRACTOR SHALL ENSURE THAT A FOREMAN OR SUPERVISOR WHO HAS BEEN CERTIFIED UNDER FLORIDA STORMWATER, EROSION, AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM IS AVAILABLE IN PERSON OR BY TELEPHONE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.
3. PRIOR TO CLEARING, A SILT FENCE BACKED WITH 4' HOG WIRE FENCE (TRENCHED 8 INCHES DEEP AND BACKFILLED ON THE UPHILL SIDE), REINFORCED WITH HAY BALES (THAT ARE TRENCHED 4 INCHES DEEP, BACKFILLED ON THE UPHILL SIDE, AND STAKED WITH AT LEAST TWO 2" X 2" WOODEN STAKES) SHALL BE INSTALLED AROUND THE PERIMETER OF THE SITE AS SHOWN ON THE PLANS. REFER TO DETAIL THIS SHEET. SILT FENCE MUST NOT BE TRENCHED WITHIN THE DRIP ZONE OF ANY TREES.
4. DURING THE CLEARING AND SITE GRADING STAGES, AREAS THAT ARE DISTURBED MORE THAN 7 DAYS SHALL BE STABILIZED WITH RYE GRASS APPLIED AT MANUFACTURER'S RECOMMENDATIONS. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH 4,000 POUNDS OF STRAW PER ACRE. ON ALL EXPOSED SLOPES THAT ARE EQUAL TO OR GREATER THAN 5:1, AN EROSION BLANKET SHALL BE UTILIZED UNTIL THE AREA ACHIEVES FINAL STABILIZATION.
5. AFTER THE INITIAL SITE GRADING WORK, DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR ARE TO BE LEFT IDLE FOR MORE THAN 14 DAYS SHALL BE STABILIZED HYDROSEEDING WITH NATIVE GRASS SEED MIX. HYDROSEEDING SHALL BE APPLIED AT MANUFACTURER'S RECOMMENDATIONS.
6. TEMPORARY SEEDING SHALL BE RYE GRASS APPLIED AT MANUFACTURER'S RECOMMENDATIONS TO ANY DISTURBED AREAS THAT ARE INACTIVE MORE THAN 7 DAYS. HYDROSEEDING WITH NATIVE GRASS SEED MIX SHALL BE USED TO PROVIDE FINAL STABILIZATION OF THE BACK SLOPES.
7. WOODED AREAS SHALL BE LEFT UNDISTURBED UNLESS OTHERWISE NOTED ON THE PLANS.
8. ALL SEDIMENT IS TO BE CAPTURED ON-SITE. ANY SEDIMENT ESCAPING THE SITE WILL BE REQUIRED TO BE REMOVED AND RESTORED.
9. THE STORMWATER CONTROL OFFICER WITH THE AUTHORITY OF DAY TO DAY OPERATIONS WILL BE PROVIDED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONSTRUCTION SHALL NOT TAKE PLACE UNTIL A STORMWATER CONTROL OFFICER HAS BEEN PROVIDED TO THE CLIENT.

**SEQUENCE OF CONSTRUCTION**

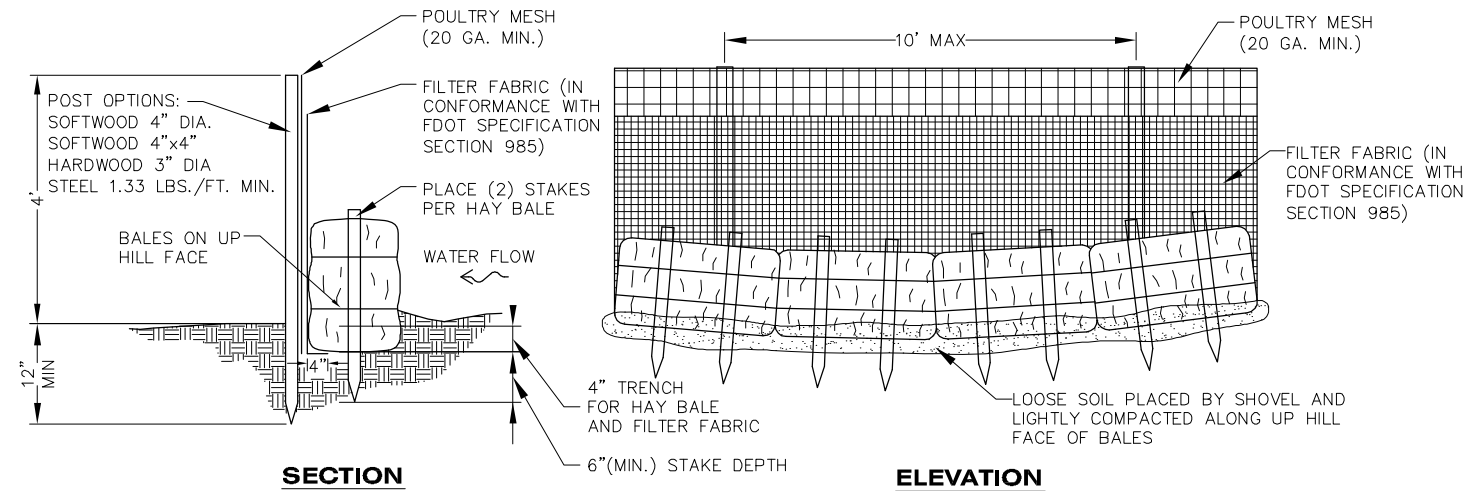
1. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE SUWANNEE RIVER WATER MANAGEMENT DISTRICT, GENESIS GROUP, AND ARDAMAN & ASSOCIATES, INC.. THE CONTRACTOR SHALL PROVIDE ATTENDEES WITH A PROPOSED CONSTRUCTION SCHEDULE AT THE TIME OF THE PRE-CONSTRUCTION MEETING.
2. STAKE OUT THE LIMITS OF CONSTRUCTION PRIOR TO EARTHWORK DISTURBANCE ACTIVITIES AND CONTACT THE OWNER FOR APPROVAL.
3. CONSTRUCT TREE PROTECTION BARRICADES AND SEDIMENT/EROSION CONTROLS (REFER TO DETAILS THIS SHEET). CONSTRUCTION ACTIVITY SHALL NOT COMMENCE UNTIL THE SEDIMENTATION CONTROLS HAVE BEEN INSTALLED.
4. CLEAR ALL AREAS TO BE DISTURBED FOR CONSTRUCTION AND RIVER ACCESS RESTORATION OF THE WALLS, SIDEWALK, AND BACK SLOPES. DO NOT DISTURB WOODED AREAS OR ANY EXISTING VEGETATION UNLESS OTHERWISE NOTED ON THE PLANS. MINIMIZE IMPACTS WITHIN THE LIMITS OF CONSTRUCTION TO MAINTAIN AS MUCH NATIVE GROUND AND VEGETATION AS POSSIBLE. STOCKPILE ALL TOPSOIL FOR REUSE ON SITE PROTECTED WITH THE PROPER EROSION CONTROL MEASURES.
5. CAREFULLY REMOVE AND STORE REDI-ROCK BLOCKS WHICH ARE UNDAMAGED, AND CAN BE REUSED IN THE RESTORATION WALL CONSTRUCTION.
6. REMOVE AND STOCKPILE FOR REUSE ALL EXCESSIVELY DISTURBED SOILS WHICH SLID AND WASHED INTO THE WALL AREAS AND PAVED AREAS. ALL SOIL STRATA ENCOUNTERED IN OUR TEST BORINGS EXCEPT FOR THOSE CONTAINING EXCESSIVE WOOD PIECES, AND STRATUM 4 SANDY SILT ARE SUITABLE FOR REUSE.
7. DRIVE SHEET PILES IN THE APPROPRIATE POSITIONS. THE SHEET PILE DESIGN SHALL BE BASED UPON SOIL CONDITIONS DEPICTED AMONG THE ARDAMAN'S TEST BORINGS AND THE DESIGN SOIL PARAMETERS PRESENTED IN SECTION 7.0 OF THEIR REPORT. MORE CONSERVATIVE SOIL PARAMETERS MAY ALSO BE USED, AS JUDGED BY THE PROFESSIONAL ENGINEER PERFORMING THE ANALYSES. THE FINAL SHEET PILE WALL DESIGN SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER SPECIALIZING IN SUCH DESIGNS.
8. BACKFILL BEHIND THE WALLS SHALL CONSIST OF THE PREVIOUSLY STOCKPILED SUITABLE SOILS (STRATA 2, 2A, 2B, AND 3), PLACED IN 12-INCH MAXIMUM LOOSE LIFTS, AND EACH LIFT COMPACTED WITHIN A RANGE OF 90% TO 94% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557). DO NOT OVER-COMPACT THE BACKFILL SOILS. CONCURRENT WITH FILL PLACEMENT, THE FDOT TYPE D-3 GEOTEXTILE AND NO. 57 VERTICAL STONE DRAINS AND SHALL BE PLACED ALONGSIDE THE SHEET PILES, AS SHOWN IN THE GENESIS GROUP DESIGN PLAN.
9. CONSTRUCT AND RESTORE THE WALLS, SIDEWALK, AND BACK SLOPES AS SHOWN ON THE PLANS.
10. SEED SLOPES THEN INSTALL COCONUT SLOPE STABILIZATION BLANKET AS SHOWN ON THE PLANS.
11. REMOVE ALL SEDIMENT/EROSION CONTROL DEVICES. REMOVE AND DISTRIBUTE ANY REMAINING SEDIMENT. ASSURE THAT DISTRIBUTED SEDIMENT WILL NOT BE REDISTRIBUTED.
12. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THREE (3) COPIES OF A SIGNED AND SEALED AS-BUILT SURVEY TO VERIFY THE INSTALLATION OF ALL IMPROVEMENTS ACCORDING THE PLANS.

**MAINTENANCE AND INSPECTION SCHEDULE**

1. EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EVERY 1/2" RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
2. HAY BALES SHALL BE USED IN AREAS WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS. INSPECTION OF THE HAY BALES SHALL TAKE PLACE IMMEDIATELY AFTER EACH RAINFALL AND ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
3. ANY REQUIRED REPAIRS TO THE HAY BALES, SILT FENCE, TURBIDITY BARRIER, OR FILTER FABRIC SHALL BE PERFORMED IMMEDIATELY.
4. BARE AREAS OF THE SITE THAT WERE PREVIOUSLY SEEDED SHALL BE RESEDED PER MANUFACTURER'S INSTRUCTIONS.
5. IMMEDIATELY INSTALL COCONUT SLOPE STABILIZATION BLANKET ON AREAS THAT HAVE BEEN WASHED OUT.
6. MAINTAIN ALL OTHER AREAS OF THE SITE WITH PROPER CONTROLS AS NECESSARY.
7. IF PROPOSED EROSION AND SEDIMENTATION CONTROLS ARE FOUND INEFFECTIVE OR IN NEED OF MAINTENANCE, THE CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES TO PROTECT THE ENVIRONMENT PER FLORIDA ADMINISTRATIVE CODE CHAPTER 62-25.025(7).

**PROTECTION OF EXISTING TREES NOTES**

1. IT IS IMPORTANT FOR THE EQUIPMENT OPERATORS, CONTRACTOR'S PERSONNEL, AND SUBCONTRACTORS TO UNDERSTAND THAT DAMAGE TO TREES WILL NOT BE TOLERATED. EXTREME CARE MUST BE TAKEN TO PROTECT THE EXPOSED ROOT COLLARS AND ADJACENT ROOT SYSTEMS FROM VEHICULAR DAMAGE AND FALLING DEBRIS. PLACEMENT OR STORAGE OF CONSTRUCTION MATERIALS OR EQUIPMENT IS NOT PERMITTED WITHIN THE TREE PROTECTION ZONE FOR ANY LENGTH OF TIME.
2. ALL TREES SHALL BE PROTECTED FROM DAMAGE UNLESS NOTED TO BE REMOVED ON THE PLANS.
3. IF EXISTING PROTECTED TREES ARE DAMAGED OR REMOVED, THE NUMBER OF REPLACEMENT TREES SHALL BE UP TO FIVE TIMES THE AMOUNT OF DAMAGED OR REMOVED TREES. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLANT TREES AT THE OWNERS DISCRETION.
4. GENESIS GROUP ACCEPTS NO RESPONSIBILITY AS TO THE LIVELIHOOD OR WELL-BEING OF EXISTING TREES.

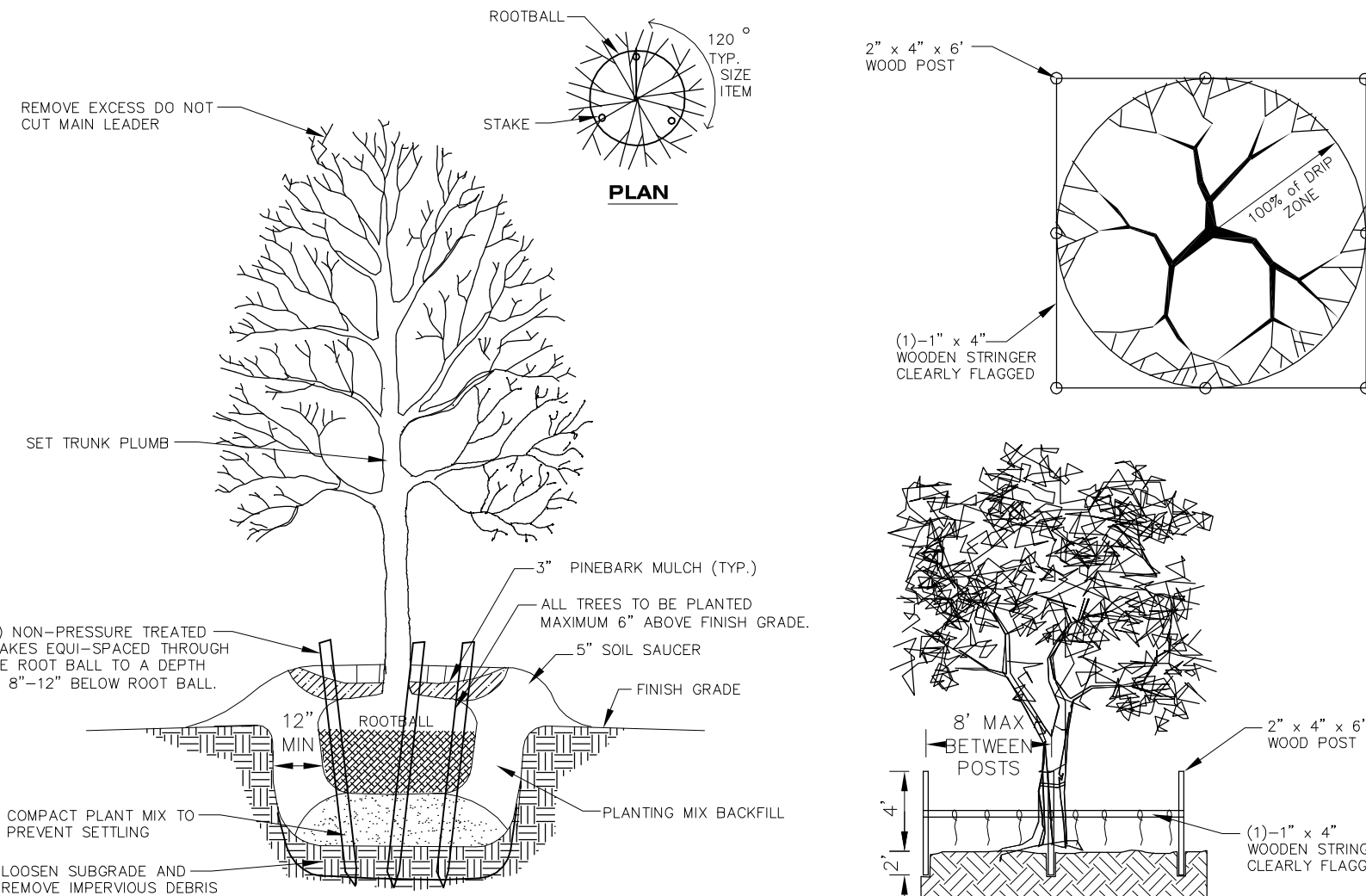


**SECTION**

**ELEVATION**

**STAKED BALE BARRIER WITH FILTER FABRIC AND HOG WIRE FENCE**

N.T.S.



**NOTE:**

1. INSTALL OOZE TUBE OR APPROVED EQUAL TREE WATERING TUBE 15 GALLON CAPACITY AT EACH NEW TREE LOCATION. INSTALL AND MAINTAIN PER MANUFACTURER'S RECOMMENDATION.
2. CONTRACTOR WILL BE RESPONSIBLE FOR THE SURVIVAL OF NEW TREES FOR A PERIOD OF 90 DAYS FROM PROJECT COMPLETION.

**TYPICAL TREE PLANTING AND STAKING**

N.T.S.

**TREE PROTECTION BARRICADE**

N.T.S.

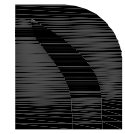
NO.	DATE	DESCRIPTION	REVISIONS
DESIGNED BY:	S.F.W.	CHECKED BY:	M.P.T.
DRAWN BY:	S.F.W.	SCALE:	1" = 20'
PROJECT NUMBER:	8039-011	DATE:	12/23/10

GENESIS GROUP  
 2507 CALLOWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 (850) 224-4400 (850) 681-3600 FAX

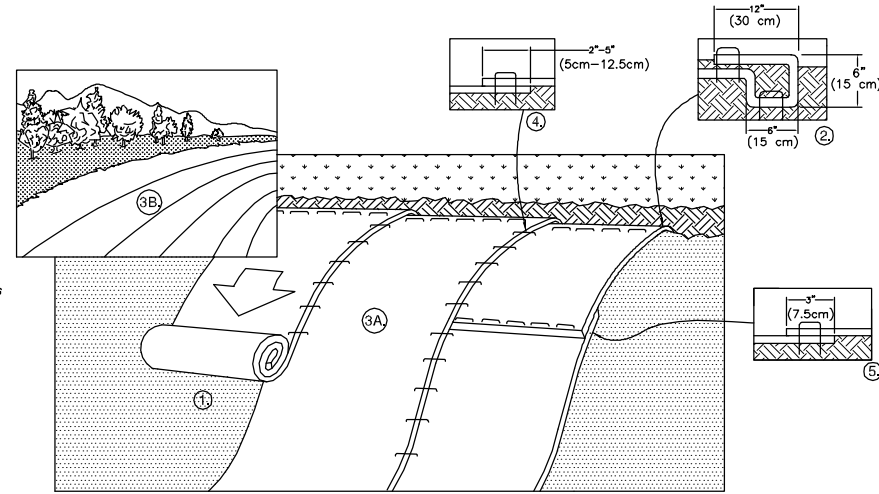
SUNANNEE RIVER WATER MANAGEMENT DISTRICT

CONSTRUCTION NOTES AND DETAILS  
 BLUE SINK RIVER ACCESS RESTORATION

25 2510 (11-14-10 REV)  
 CA 10/23/10 (10/23/10) SUBMITTALS 10/23/10 8039-011 LAYOUT.DWG



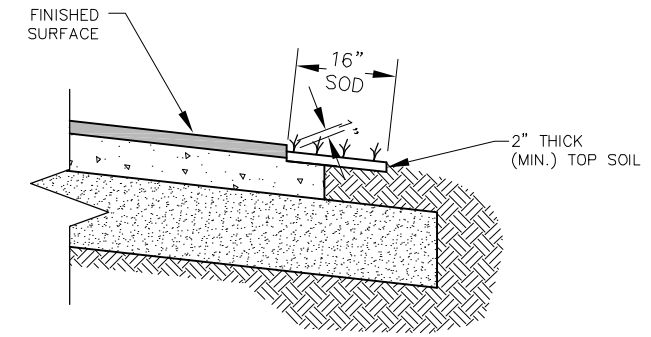
**NORTH AMERICAN GREEN**  
 EROSION CONTROL Products  
*Guaranteed SOLUTIONS*  
 14649 HIGHWAY 41 NORTH  
 EVANSVILLE, IN 47725  
 800-772-2040  
 www.nagreen.com



1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
  2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP's.
  3. ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM™, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
  4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP's TYPE.
  5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP's WIDTH.
- NOTE:  
 \*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

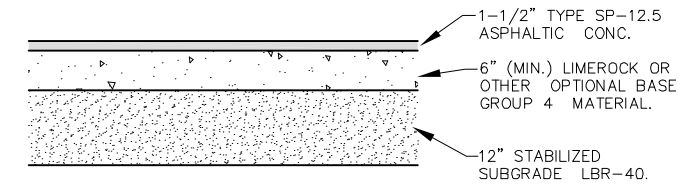
REV. 01/05

**COCONUT BLANKET INSTALLATION DETAIL**  
 N.T.S.

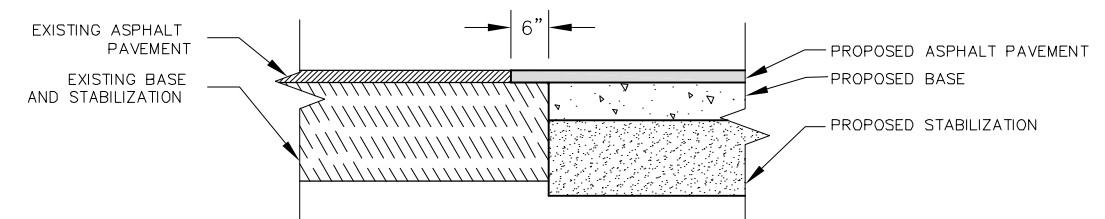


SPECIAL ATTENTION IS TO BE DIRECTED TO THE CONSTRUCTION OF THE REQUIRED 1" DROP-OFF AT EDGE OF PAVEMENT.

**PLANTING AT PAVEMENT EDGE DETAIL**  
 N.T.S.



**TYPICAL PAVEMENT DETAIL**  
 N.T.S.



NOTE:  
 SAWCUT EXISTING PAVING IN A STRAIGHT LINE AND REMOVE WASTE TO PROVIDE A SMOOTH JOINT FOR THE NEW PAVEMENT.

**PAVEMENT ABUTMENT DETAIL**  
 N.T.S.

NO.	DATE	DESCRIPTION	REVISIONS
DESIGNED BY:		S.F.W.	CHECKED BY: M.P.T.
DRAWN BY:		S.F.W.	SCALE: 1" = 20'
			PROJECT NUMBER: 8039-011
			DATE: 12/23/10

**GENESIS GROUP**  
 GENESIS GROUP  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 (850) 221-4400 (850) 681-3600 FAX

**SUNANEE RIVER WATER MANAGEMENT DISTRICT**

PREPARED FOR:

SEAL

Mark P. Thompson, P.E.  
 License Number 48287

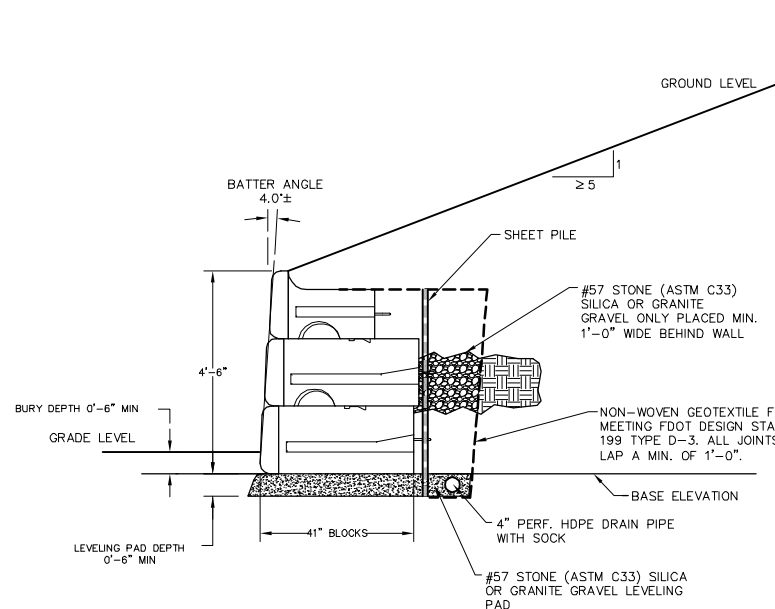
**CONSTRUCTION NOTES AND DETAILS**

**BLUE SINK RIVER ACCESS RESTORATION**

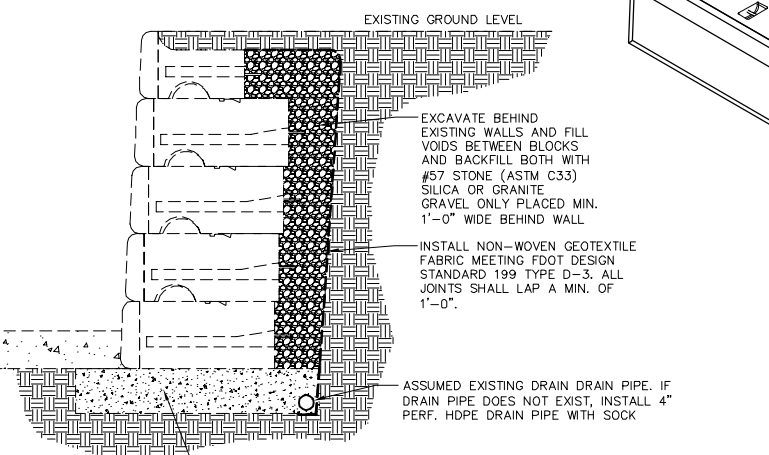
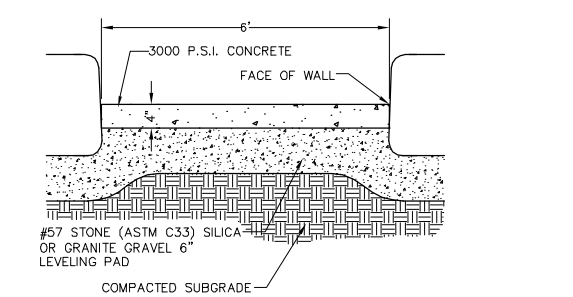
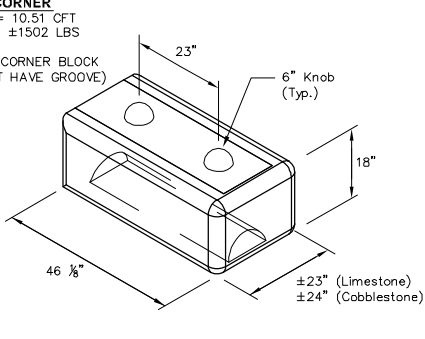
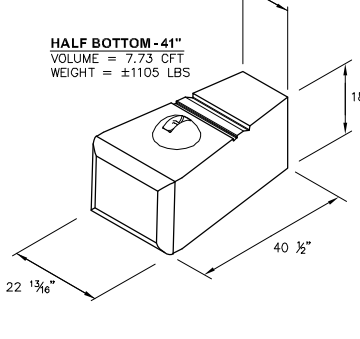
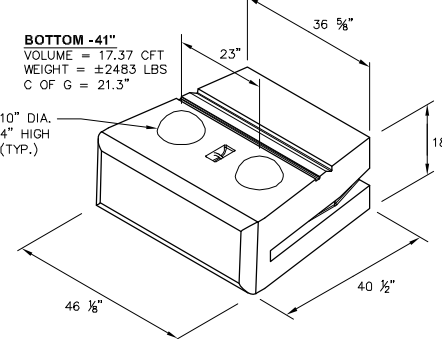
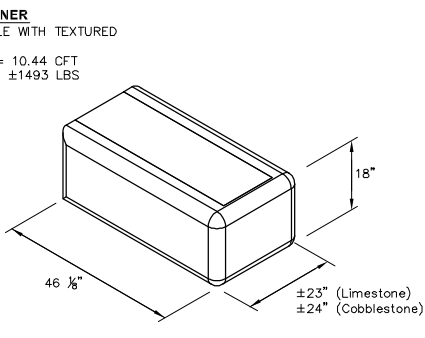
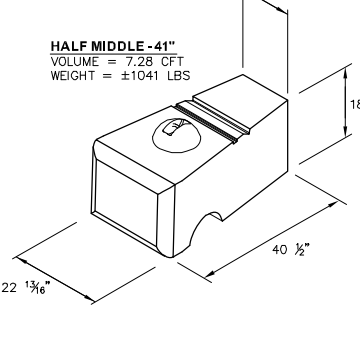
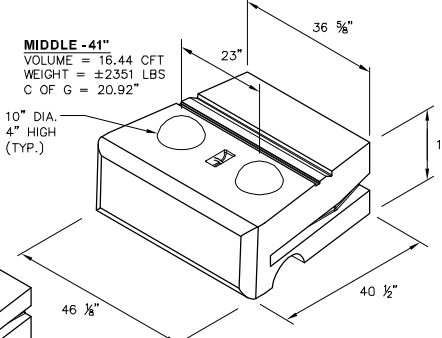
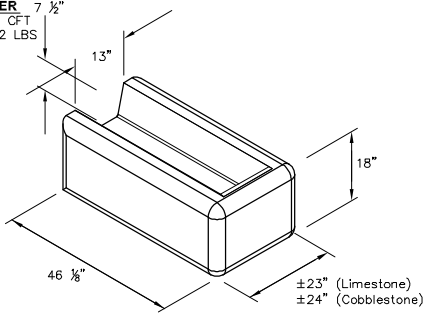
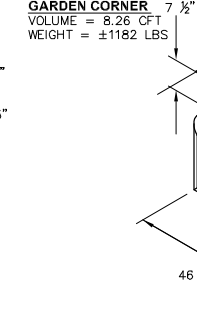
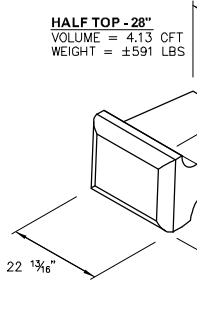
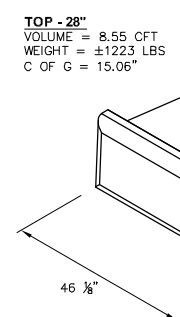
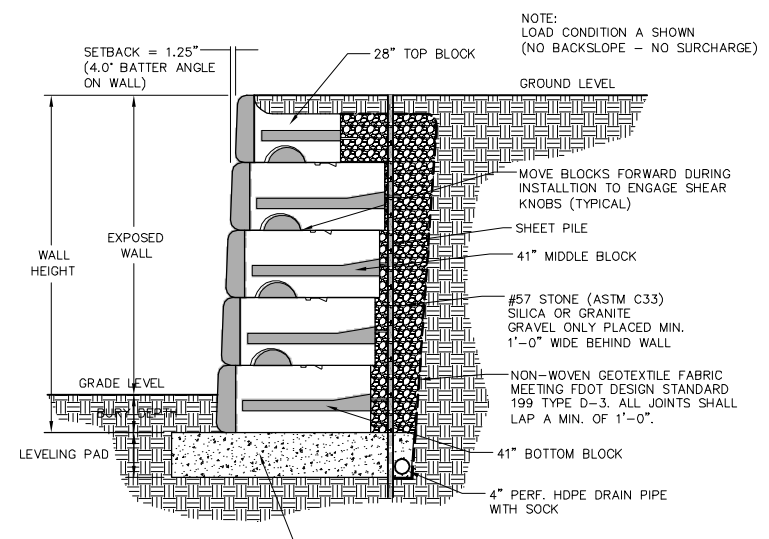
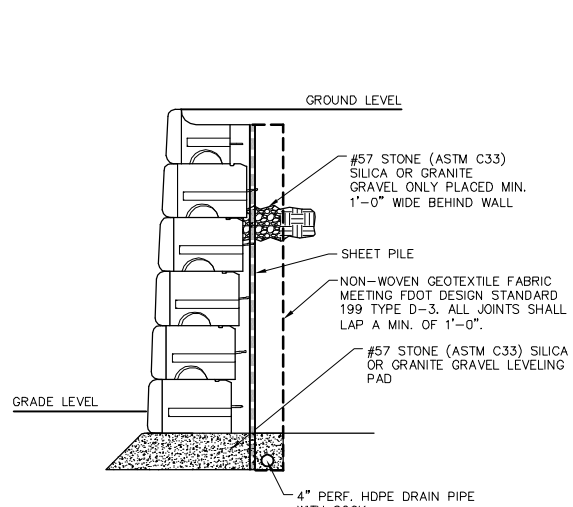
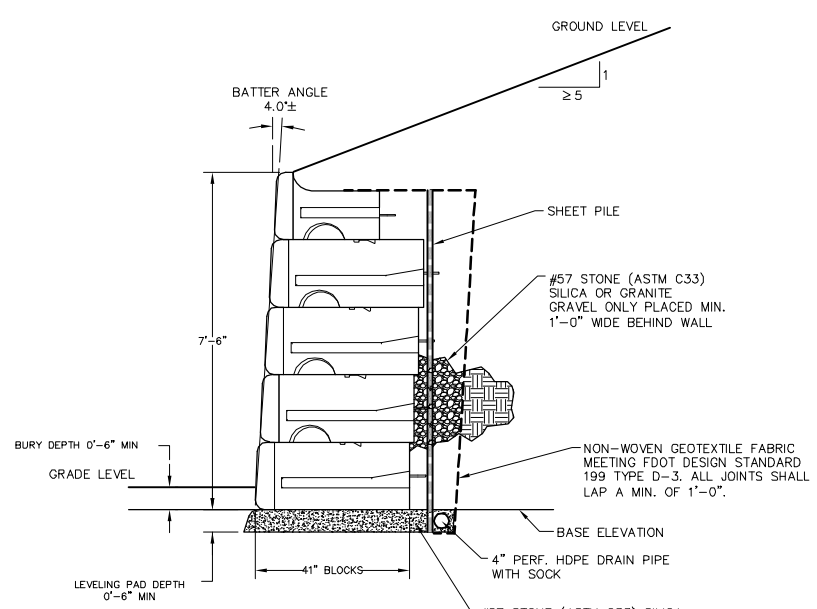
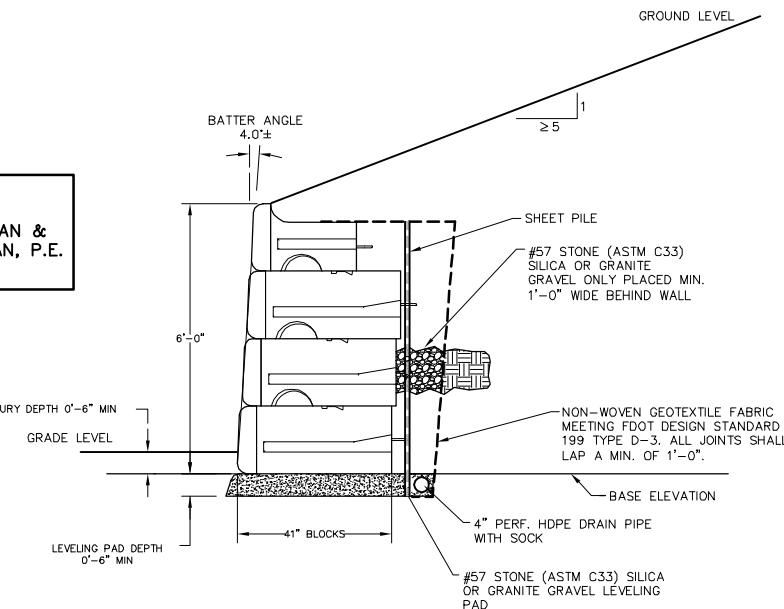
SHEET TITLE

SHEET NUMBER

**23**



**NOTE:**  
#57 STONE AND GEOTEXTILE FABRIC REQUIREMENTS PROVIDED BY ARDAMAN & ASSOCIATES, INC.: WILLIAM S. JORDAN, P.E. SEPT. 14, 2009.



**DETAILS PROVIDED BY:**  
Redi-Rock International, LLC  
DETAILS ARE TYPICAL. DETAILS TO INCLUDE SHEET PILE SHALL BE PROVIDED AS PART OF THE STRUCTURAL DESIGN.

NO.	DATE	DESCRIPTION	REVISIONS
DESIGNED BY:	S.R.W.	CHECKED BY:	M.P.T.
PROJECT NUMBER:	8039-011	SCALE:	1" = 20'
DATE:	12/23/10	DRAWN BY:	S.R.W.

GGL, LLC dba GENESIS GROUP  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
FLORIDA PROFESSIONAL SEAL  
FL-CA 00009660 FL-IC 26000202 (850) 224-4400 (850) 681-3600 FAX

**GENESIS GROUP**  
PREPARED FOR  
SUNWANEE RIVER WATER MANAGEMENT DISTRICT

**WALL CONSTRUCTION DETAILS**  
**BLUE SINK RIVER ACCESS RESTORATION**

Mark P. Thompson, P.E.  
License Number 48287

SHEET TITLE  
SHEET NUMBER  
**24**

December 23, 2010 (1:54:46 PM)  
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