

January 28, 2011

DEPARTMENT OF
ENVIRONMENTAL PROTECTION

FEB 2 2011

SITING COORDINATION

Mr. Michael Halpin, P.E.
Program Administrator
Office of Siting Coordination
Department of Environmental Protection
3900 Commonwealth Boulevard
Tallahassee, FL 32399-3000

Re: Seminole Electric Cooperative, Inc.
Seminole Generating Station, Putnam County, Florida
Power Plant Certification No. PA78-10
Post-Certification Amendment to Application

Dear Mr. Halpin:

Pursuant to Section 403.5113(1)(a), Florida Statutes, and Rule 62-17.205, Florida Administrative Code, please accept this letter and the attachment hereto as an additional post-certification amendment to the Seminole Electric Cooperative, Inc. ("Seminole") Site Certification Application ("Application") for the Seminole Generating Station in Putnam County, Florida. This post-certification amendment addresses a proposed 1,525 square foot (ft²) concrete slab near an existing welding shop, a proposed 15- by 30-ft storage shed in an existing lube oil storage area, and a proposed 1,320 ft² concrete slab near an existing EPF maintenance building.

Additional details concerning the proposed concrete slabs and the small shed are included in the attachment, which is a report authored by Ivan Chou, P.E., of Environmental Consulting and Engineering, Inc. (ECT). As explained in the ECT Report, existing stormwater pond #1 has sufficient storage and attenuation capacity to accommodate the 1,525 ft² slab; additionally the storage shed will not add to stormwater runoff because it will be built on an area already covered by impervious asphalt. The ECT Report also concludes that the 1,320 ft² slab will not have any stormwater impacts because it will be constructed in an area that drains into retention ponds that feed into the plant reuse/treatment system.

Based on the foregoing, Seminole requests concurrence from the Office of Siting Coordination that the 1,525 ft² concrete slab, the proposed storage shed, and the 1,320 ft² concrete slab, as described herein, are acceptable as a post-certification amendment to the Site Certification Application.

Mr. Michael Halpin, Administrator
September 23, 2010
Page 2

Very truly yours,

A handwritten signature in black ink, appearing to read "Mike Roddy", with a stylized flourish at the end.

Mike Roddy
Manager of Environmental Affairs
Seminole Electric Cooperative, Inc.

cc: Ann Seiler
Allen Hubbard
James Alves



Environmental Consulting & Technology, Inc.

December 17, 2010
ECT No. 101023-0100

Mr. Robert Yarbrough
Seminole Electric Company
P.O. Box 272000
Tampa, FL 33688-200

Subject: Seminole Electric Cooperative Inc.'s (SECI's) Seminole Generating Station (SGS)

Dear Robert:

Environmental Consulting & Technology, Inc. (ECT), is submitting this hydraulic analysis to assess stormwater runoff from the proposed 1,525 square foot (ft²) concrete slab near an existing welding shop, a proposed 15- by 30-ft shed in an existing lube oil storage area, and the proposed 1,320 ft² concrete slab near an existing EPF maintenance building.

Background

To manage the stormwater from the newly constructed selective catalytic reduction (SCR) system at the SGS Units 1 and 2, Burns & McDonnell (B&M) conducted detention pond design and hydraulic calculations for ponds #1 and #2 (December 2006, B&M), which was reviewed and approved by the Florida Department of Environmental Protection (FDEP). The purpose of this hydraulic analysis is to ensure that the existing detention ponds are capable of handling the stormwater runoff from the proposed concrete slabs.

Concrete Slab near Welding Shop and the Lube Storage Shed

SECI plans to construct a 1,525 ft² concrete slab on mostly grassy areas adjacent to an existing welding shop (Figures 1 and 2). The purpose of the concrete slab is for equipment staging before fabrication. The slab addition will slightly increase the impervious surface area and thus more stormwater runoff to the detention pond #1. In addition, SECI plans to construct a 15- x 30-ft shed to store lube oil in an area currently covered by impervious asphalt (Figure 2). The lube oil storage area also drains into detention pond #1. The construction of the proposed storage shed will not have any hydrologic impact because it will be constructed on an existing impervious area. To assure that the existing pond #1 has sufficient storage capacity to attenuate the runoff from the concrete slab, ECT conducted a hydraulic/hydrologic analysis as described in the following paragraphs.

The existing welding shop and the proposed 1,525 ft² concrete slab are located in the stormwater basin #1, a 41.96-acre area that drains into a 3-acre wet detention pond. The stage/area and stage/volume of the stormwater pond #1 are presented in Table 1. The 1,320 ft² concrete slab near the EPF maintenance building is not located within basin #1.

3701 Northwest
98th Street
Gainesville, FL
32606

(352)
332-0444

FAX (352)
332-6722

Y:\GDP-10\SECI\SGS\IBC1217.DOCX

Table 1. SECI SGS Pond #1 Stage-Area-Volume Data

Elevation (FT-NGVD)	Area (acres)	Volume (acre-feet)
67.00	1.70	0.00
67.50	1.74	0.86
68.00	1.79	1.74
68.50	1.83	2.65
69.00	1.87	3.57
69.50	1.92	4.52
70.00	1.97	5.49
70.50	2.01	6.49
71.00	2.06	7.50
71.50	2.16	8.56
72.00	2.27	9.67
73.00	2.46	12.04
74.00	2.75	14.64
74.25	2.79	15.34
74.50	2.88	16.05
75.00	3.02	17.53
75.50	3.16	19.07
76.00	3.30	20.69

Source: ECT, 2010.

The discharge structure of the retention pond #1 includes a 7-inch diameter bleed-down orifice with an invert elevation of 72.0 ft-NGVD, a 5- by 6-ft concrete drop inlet with an overflow elevation of 74.25 ft-NGVD, and a 20-ft-wide emergency spillway with a top elevation of 75.55 ft-NGVD. The drawings of the stormwater detention pond #1 and its flow control structure are presented in Attachment A.

To evaluate the attenuation capacity of the stormwater pond #1, hydraulic and hydrologic analyses were conducted, using HEC-HMS model, for both the pre-SCR and post-concrete slab conditions. Figure 2 shows the land use information for the stormwater basin #1, including the proposed 1,525 ft² concrete slab near the welding shop. The curve number (CN) calculations for the pre-SCR and post-concrete slab conditions are presented in Table 2.

Table 2. CN Computation

Land use	CM	Area (acres)	
		Pre-SCR	Post-concrete slab
Grass	61	18.59	7.10
Gravel	85	8.06	1.22
Structures and pavement	98	15.31	27.13
Pond	100	0	3.30
Pond vicinity	70	0	3.21
Total		41.96	41.96

Source: ECT, 2010.

The 27.13-acre structure and pavement area for the post-concrete slab condition includes 7.42 acres of buildings and sheds, 0.5 acre of tanks, and 19.21 acres of pavement. Both structure/pavement and gravel areas are considered as impervious. The computed weighted CNs for the pre-SCR and post-concrete slab conditions are 79.1 and 89.4, respectively.

The results of the HEC-HMS modeling for mean annual maximum, 25-year 24-hour, and 100-year 24-hour storms are presented in Attachment B and summarized as follows:

Table 3. HEC-HMS Model Results

Storm Event	Pond #1 Peak Discharge (cfs)		Post-Concrete Slab Pond #1 Peak Stage (ft)
	Pre-SCR	Post-Concrete Slab	
Average (4.5 inches)	49.5	30.7	74.78
25-year, 24-hour (8 inches)	96.9	82.7	75.36
100-year, 24-hour (10 inches)	124.3	108.6	75.60

Source: ECT, 2010.

Letter to Mr. Robert Yarbrough
Seminole Electric Cooperative, Inc.
December 17, 2010
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The HEC-HMS results indicate that the peak discharge of the pond #1 under the post-concrete slab condition is less than the peak discharge under the pre-SCR condition for mean annual maximum, 25-year, and 100-year storm events. In addition, the freeboard in pond #1 at peak stage under a 100-year storm event is 1.4 ft (the stormwater pond #1 berm elevation is 77 ft-NGVD).

Therefore, the existing stormwater pond #1 has sufficient storage and attenuation capacity to accommodate the proposed concrete slab near the welding shop.

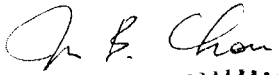
Concrete Slab near EPF Maintenance Building

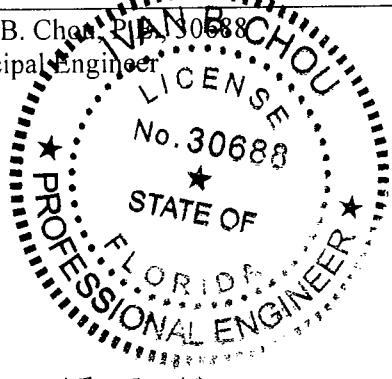
Figure 3 shows the location of a proposed 33- by 40-ft concrete slab in a currently gravel area at the north end of the existing EPF maintenance building. The purpose of this concrete slab is to increase the work area on a level surface and prevent slipping hazard on loose gravel. The runoff from the proposed concrete slab drains north and east and into four inter-connected retention ponds. These retention ponds are part of the onsite wastewater system. The pond water is either re-used or treated and does not contribute stormwater discharge to receiving waters. Therefore, the proposed 1,320 ft² concrete slab near the EPF maintenance building will not have adverse hydrological impact.

If you have any questions regarding this letter report, please contact me.

Sincerely,

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.



Ivan B. Chou, P.E. No. 30688
Principal Engineer

12-17-2010

Date

IBC/tsw
Enclosures



GRAPHIC SCALE
0 7.5 15
SCALE IN FEET

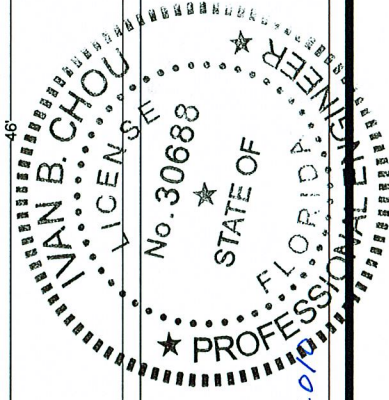
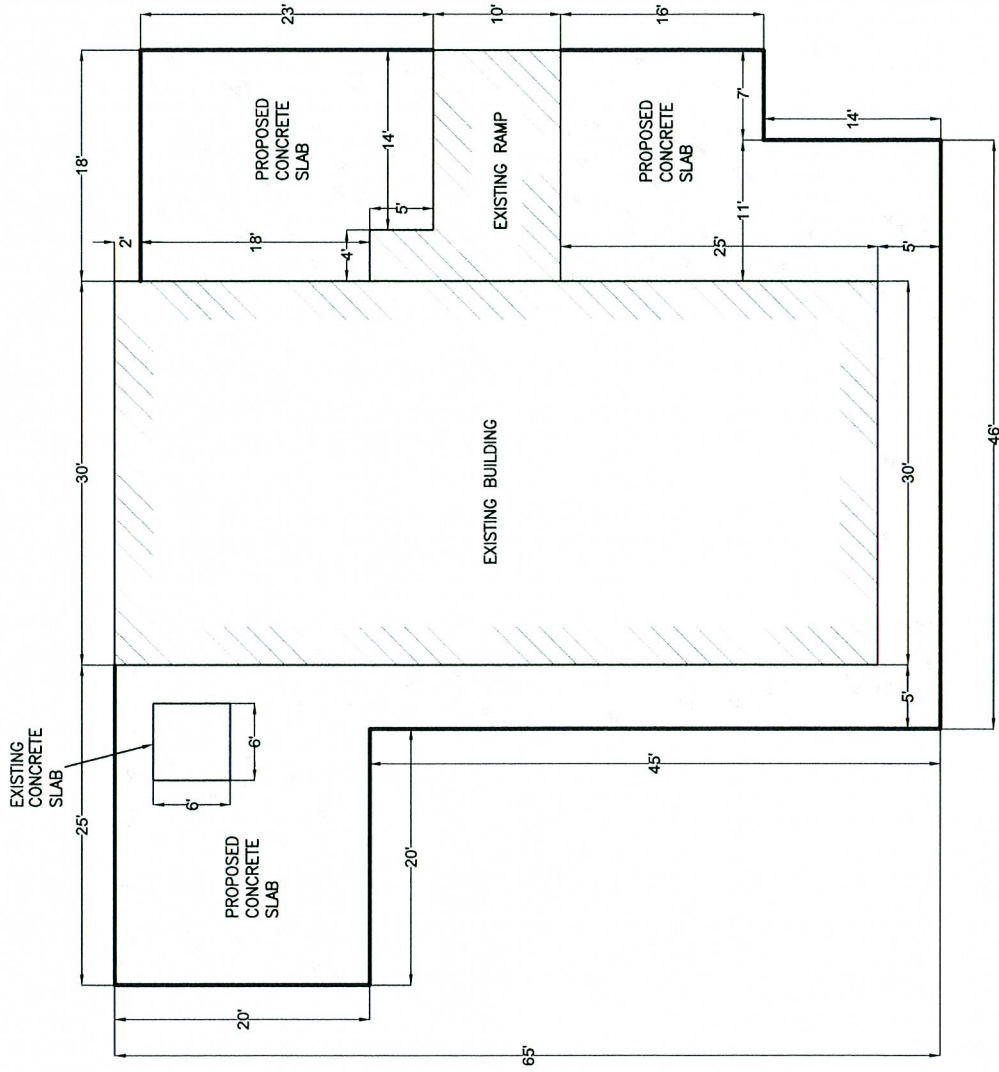
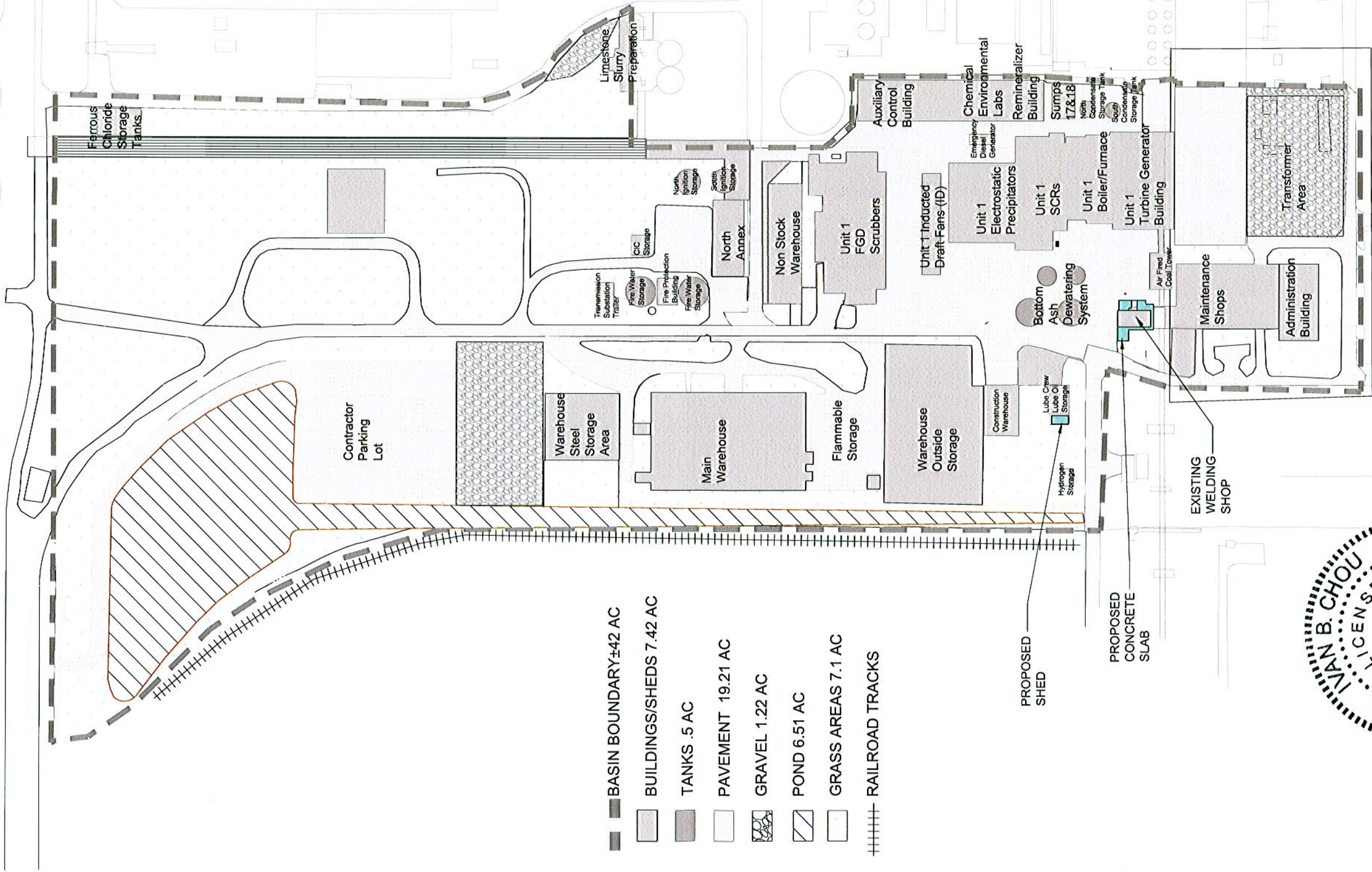
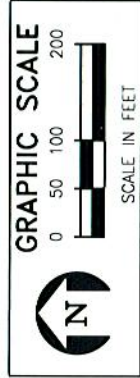


FIGURE 1.
SGS WELDING SHOP SITE PLAN

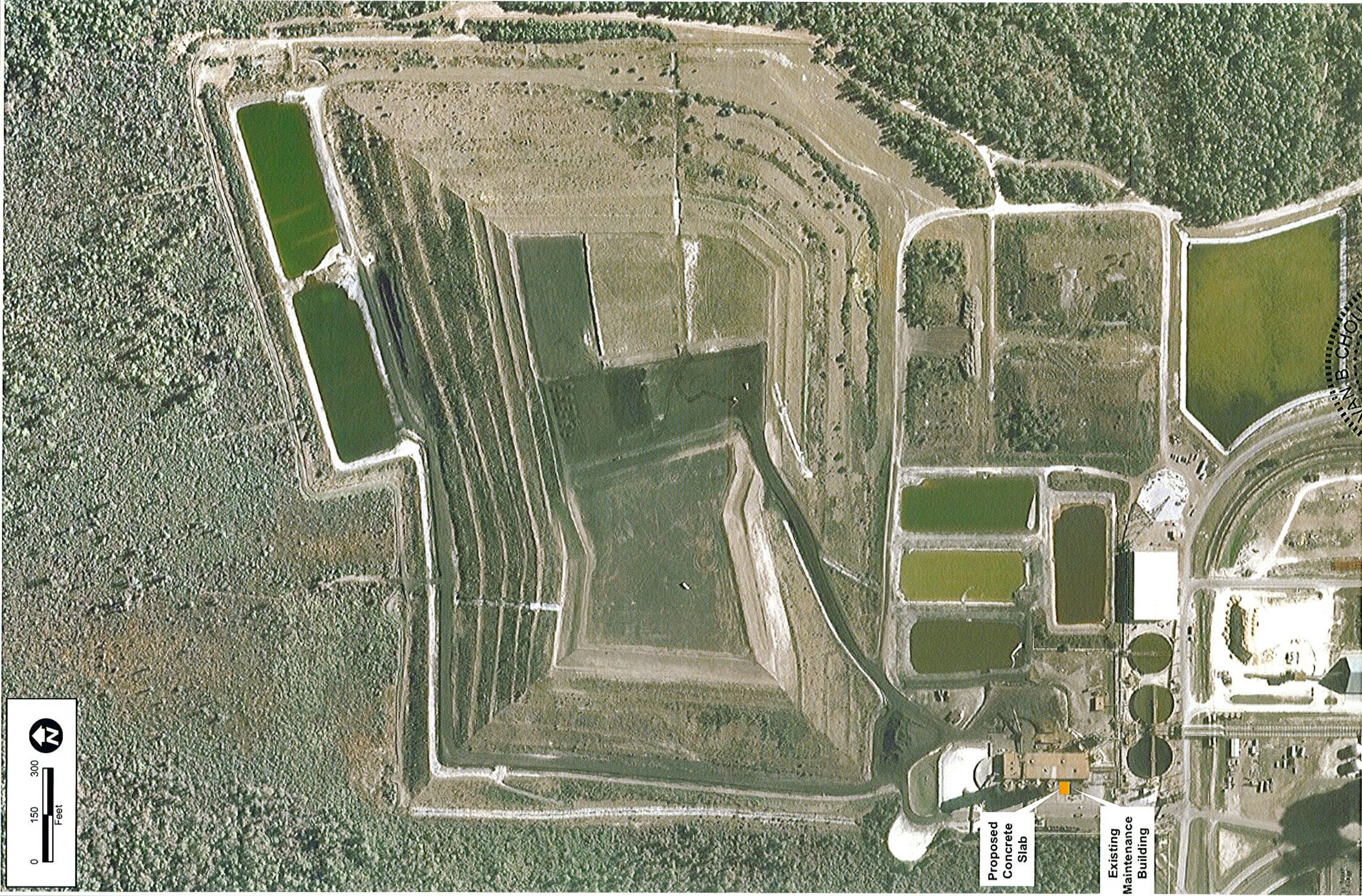
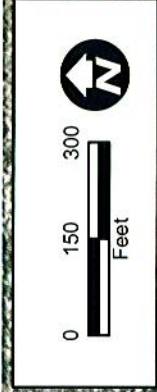
Source: ECT, 2010.



J.B. Chou
12-17-2010
IAN B. CHOU
LICENSE
No. 30688
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FIGURE 2.
SEMINOLE GENERATING STATION STORMWATER BASIN #1 LAND USE
SEMINOLE ELECTRIC COOPERATIVE, INC.

Source: ECT, 2010.



Proposed
Concrete
Slab

Existing
Maintenance
Building

FIGURE 3.

PROPOSED CONCRETE SLAB NEAR EPF MAINTENANCE BUILDING

Sources: ECT 2010.



ATTACHMENT A

STORMWATER DETENTION POND #1

PLANS AND SECTIONS



Seminole Generating Station Palatka, Florida (Putnam County)

2006

41262

Contract Drawings

GENERAL DRAWINGS

DWG. NO.	TITLE
1C0150	COVER-INDEX
1C0151	LEGEND, ABBREVIATIONS, VICINITY MAP & NOTES

REFERENCE DRAWINGS

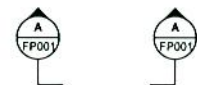
DWG. NO.	TITLE
1M146	FIRE PROTECTION PIPING-YARD
CM-35509-001-0035	PURGE WATER TREATMENT SYSTEM -
	TREATED PURGE WATER - PIPELINE ROUTING
SC-35169-001-0000	TELEPHONE CABLE LOCATION PLAN
SE-25003-001-0000	ELECTRIC UTILITY SERVICE FOR NEW WAREHOUSE

ONE OR TWO CHARACTER
DISCIPLINE DESIGNATOR
(MAY NOT BE PRESENT IF
CALLOUT AND TITLE ARE
ON DRAWINGS WITHIN THE
SAME DISCIPLINE)

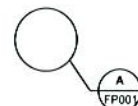
LETTER OR
NUMBER DESIGNATOR

DRAWING SEQUENCE NUMBER
INDICATES WHERE DETAIL IS
SHOWN OR TAKEN FROM
(MAY NOT BE PRESENT IF
CALLOUT AND TITLE ARE ON
THE SAME DRAWING)

SECTION, DETAIL, AND ELEVATION SYMBOL IDENTIFIERS



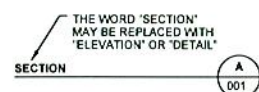
SECTION CALLOUT EXAMPLE



DETAIL CALLOUT EXAMPLE



ELEVATION CALLOUT EXAMPLE



SECTION, DETAIL, OR ELEVATION TITLE EXAMPLE

SECTION, DETAIL, AND ELEVATION IDENTIFICATION SYSTEM

CIVIL DRAWINGS

DWG. NO.	TITLE
1C0152	OVERALL SITE PLAN
1C0153	DEMOLITION, FENCING & EROSION CONTROL PLAN - SHEET 1
1C0154	DEMOLITION, FENCING & EROSION CONTROL PLAN - SHEET 2
1C0155	GRADING PLAN - SHEET 1
1C0156	GRADING PLAN - SHEET 2
1C0157	GRADING SECTIONS (EAST)
1C0158	NOT USED
1C0159	NOT USED
1C0160	NOT USED
1C0161	NOT USED
1C0162	GRADING SECTIONS (WEST) - SHEET 1
1C0163	GRADING SECTIONS (WEST) - SHEET 2
1C0164	GRADING SECTIONS (WEST) - SHEET 3
1C0165	ROAD PROFILES
1C0166	MISCELLANEOUS DETAILS - SHEET 1
1C0167	MISCELLANEOUS DETAILS - SHEET 2
1C0168	MISCELLANEOUS DETAILS - SHEET 3
1C0169	NOT USED
1C0170	POND 1 (WEST) DETAILS - SHEET 1
1C0171	POND 1 (WEST) DETAILS - SHEET 2
1C0172	POND 2 (EAST) DETAILS - SHEET 1
1C0173	POND 2 (EAST) DETAILS - SHEET 2

ELECTRICAL DRAWINGS

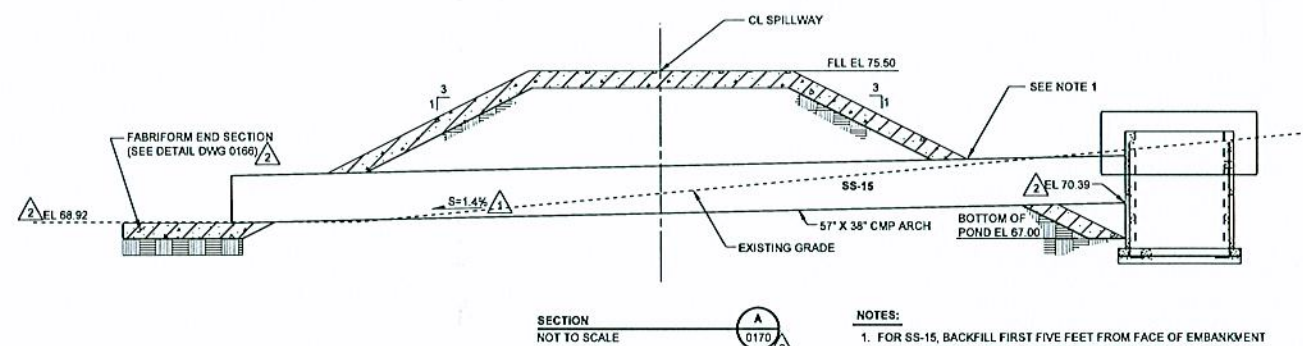
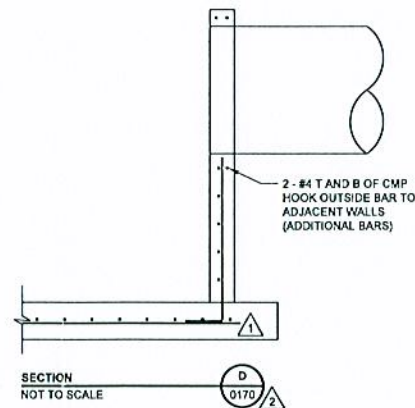
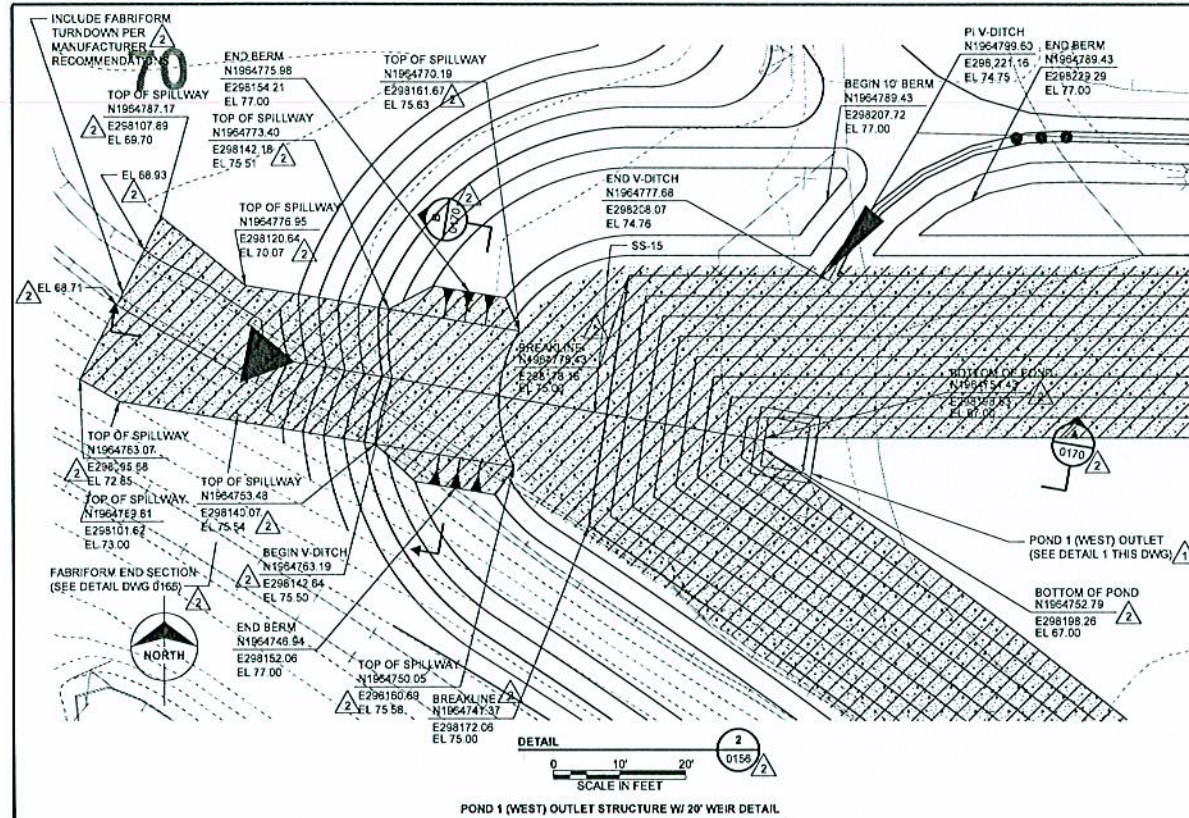
DWG. NO.	TITLE
1E5600	ROADWAY LIGHTING PLAN
1E5601	LIGHTING AND FENCE GROUNDING DETAILS

no	date	by	ckd	description	no	date	by	ckd	description
0	10/10/06	JCE	JWG	ISSUED FOR BID	12/12/06	JCE	JWG		REVISED CIVIL DRAWING LIST
1	12/12/06	JCE	JWG	DELETED REFERENCE DRAWINGS CE-25007-000-0006, CM-25007-000-0018, 1M145, 1M153 AND MECHANICAL DRAWING CM-35659-000-0001-0001	12/22/06	JCE	JWG		ISSUED AS BID AND FOR CONSTRUCTION
					8/27/07	JCE			CONFORMING TO CONSTRUCTION RECORDS

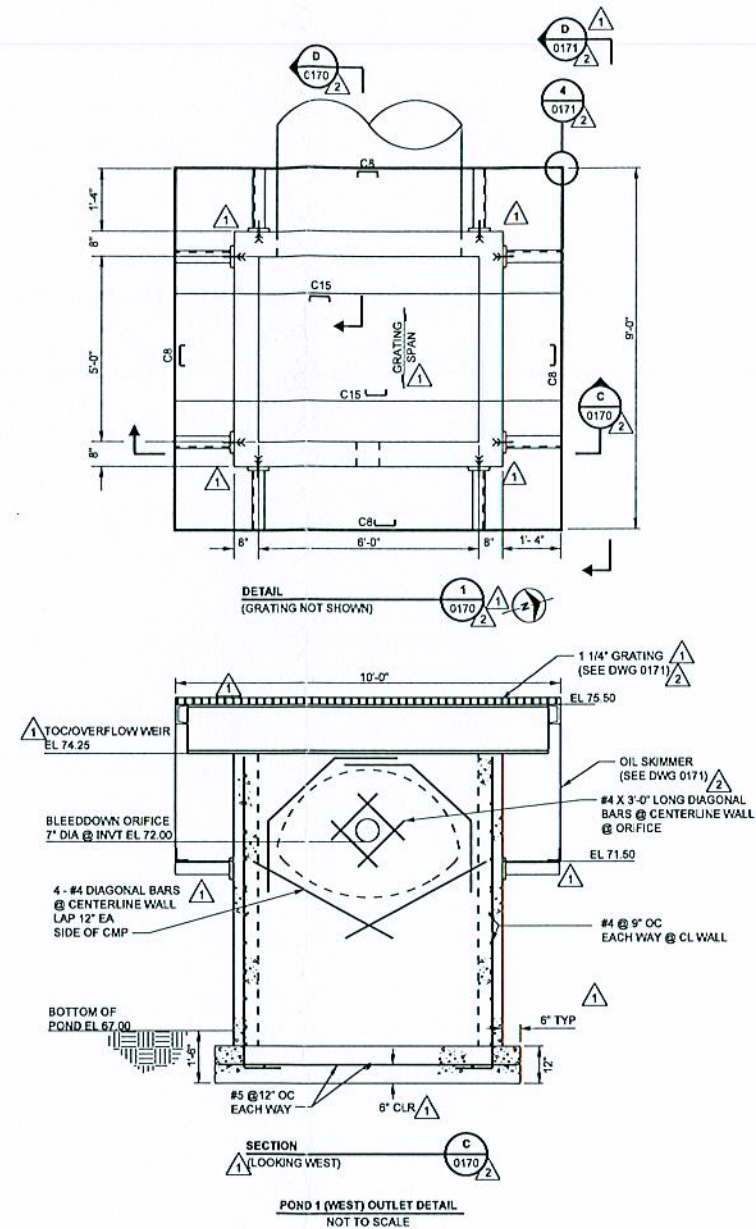
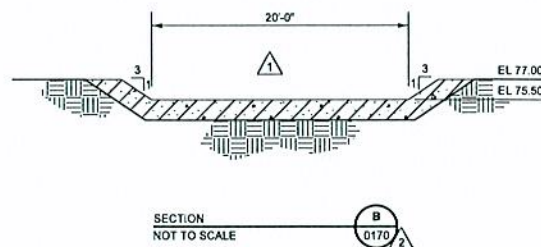
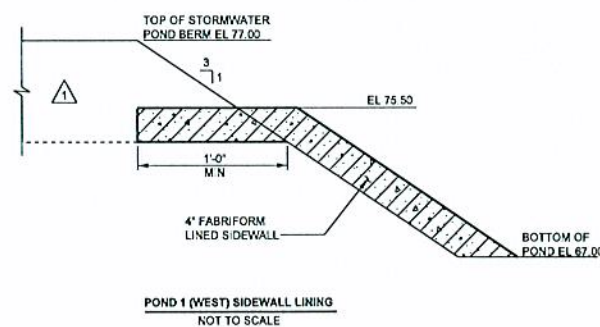


Units 1 & 2 - SGS Pollution Control Upgrade
Site Preparation
Contract #110

Cover - Index



- NOTES:
1. FOR SS-15, BACKFILL FIRST FIVE FEET FROM FACE OF EMBANKMENT WITH COHESIVE MATERIAL AS SPECIFIED IN SECTION 02301-2.01 C.1. DO NOT USE GRANULAR BEDDING MATERIAL IN FIRST FIVE FEET OF TRENCH.
 2. AVERAGE GROUNDWATER ELEVATION FOR POND 1 (WEST) IS 72.25' (APPROX).



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0					10/10/06					JCE					JVG					ISSUED FOR BID				
1					10/30/06					JCE					CLG					ADDED GRATING, CHANGED SLOPE OF SS-1				
					10/31/06					JCE					CLG					ISSUED WITH ADDENDUM NO 1				
					12/22/06					JCE					CLG					ISSUED AS BID AND FOR CONSTRUCTION				

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ATTACHMENT B

HEC-HMS MODEL INPUT/OUTPUT



HEC-HMS MODELING OF SEMINOLE – POND 1

INPUT

Design Storms

Precipitation	
Met Name: Mean Annual Maximum	
Method:	Type 2 
*Depth (IN)	4.5

Precipitation

Met Name: 25 Yr 24 Hr

Method: Type 2

*Depth (IN)

8

Precipitation

Met Name: 100 Year 24 Hr

Method: Type 2



*Depth (IN)

10

Pre-SCR Condition

Basin Input

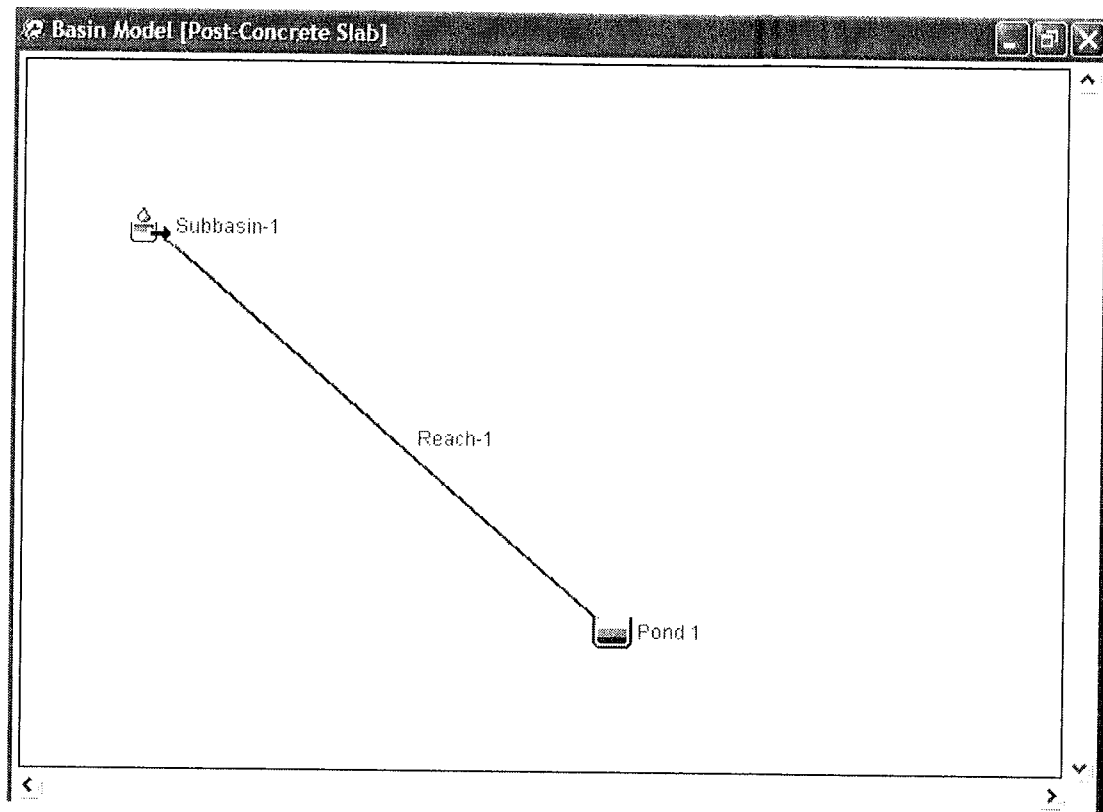
Subbasin		Loss	Transform	Options
Basin Name: Pre-SCR				
Element Name: Subbasin-1				
Description:	Pre-SCR Conditions			
Downstream:	--None--			
*Area (MI2)	0.06556			
Canopy Method:	--None--			<
Surface Method:	--None--			<
Loss Method:	SCS Curve Number			<
Transform Method:	SCS Unit Hydrograph			<
Baseflow Method:	--None--			<

 Subbasin	Loss	Transform	Options
Basin Name: Pre-SCR			
Element Name: Subbasin-1			
Initial Abstraction (IN)	0.528		
*Curve Number:	79.1		
*Impervious (%)	55.7		

 Subbasin	Loss	Transform	Options
Basin Name: Pre-SCR			
Element Name: Subbasin-1			
Graph Type:		Standard 	
*Lag Time (MIN)		65	

Post-Concrete Slab Condition

Basin Input



 Subbasin		Loss	Transform	Options
Basin Name: Post-Concrete Slab				
Element Name: Subbasin-1				
Description:				
Downstream:	Pond 1		▼	
*Area (MI2)	0.06556			
Canopy Method:	--None--		▼	
Surface Method:	--None--		▼	
Loss Method:	SCS Curve Number		▼	
Transform Method:	SCS Unit Hydrograph		▼	
Baseflow Method:	--None--		▼	

Basin Name: Post-Concrete Slab

Element Name: Subbasin-1

Initial Abstraction (IN) 0.237

*Curve Number: 89.4

*Impervious (%) 67.6

	Subbasin	Loss	Transform	Options
Basin Name: Post-Concrete Slab				
Element Name: Subbasin-1				
Graph Type:		Standard 		
*Lag Time (MIN)		74		

Reservoir		Options
Basin Name: Post-Concrete Slab		
Element Name: Pond 1		
Description:		
Downstream:	-- None --	
Method:	Outflow Curve	
Storage Method:	Elevation-Area-Discharge	
*Elev-Area Function:	Stage-Area	
*Elev-Dis Function:	Stage-Discharge	
Primary:	Elevation-Discharge	
Initial Condition:	Elevation	
*Initial Elevation (FT)	72.0	

 Paired Data

Table

Graph

Elevation (FT)	Area (AC)
67.0000	1.69940
67.5000	1.74280
68.0000	1.78610
68.5000	1.83030
69.0000	1.87450
69.5000	1.92050
70.0000	1.96640
70.5000	2.01120
71.0000	2.05590
71.5000	2.16340
72.0000	2.27090
73.0000	2.46340
74.0000	2.75360
74.2500	2.78630
74.5000	2.88440
75.0000	3.01520
75.5000	3.15780
75.5500	3.17206
75.6050	3.18776
76.0000	3.30040

 Paired Data

Table

Graph

Elevation (FT)	Discharge (CFS)
72.000	0.00
73.000	1.08
74.000	1.68
74.250	1.80
74.500	10.41
75.000	46.27
75.500	97.31
75.550	103.09
75.610	110.21
76.000	174.95

OUTPUT

Summary Table for Mean Annual Maximum: Pre-SCR Condition

Summary Results for Subbasin "Subbasin-1"	
Project: Seminole Pond #1 Analysis	
Simulation Run: Pre Concrete Slab Avg Subbasin: Subbasin-1	
Start of Run: 01Jan2010, 00:00	Basin Model: Pre-SCR
End of Run: 03Jan2010, 00:00	Meteorologic Model: Mean Annual Maximum
Compute Time: 08Dec2010, 08:35:45	Control Specifications: Control 1
Volume Units: ☒ IN ☐ AC-FT	
Computed Results	
Peak Discharge : 49.53 (CFS)	Date/Time of Peak Discharge : 01Jan2010, 13:00
Total Precipitation : 4.50 (IN)	Total Direct Runoff : 3.56 (IN)
Total Loss : 0.94 (IN)	Total Baseflow : 0.00 (IN)
Total Excess : 3.56 (IN)	Discharge : 3.56 (IN)

Summary Table for 25-Yr, 24-Hr: Pre-SCR Condition

Summary Results for Subbasin "Subbasin-1"			
Project: Seminole Pond #1 Analysis			
Simulation Run: Pre Concrete Slab 025 Subbasin: Subbasin-1			
Start of Run:	01Jan2010, 00:00	Basin Model:	Pre-SCR
End of Run:	03Jan2010, 00:00	Meteorologic Model:	25 Yr 24 Hr
Compute Time:	08Dec2010, 08:35:44	Control Specifications:	Control 1
Volume Units: ☒ IN ☐ AC-FT			
Computed Results			
Peak Discharge :	96.92 (CFS)	Date/Time of Peak Discharge :	01Jan2010, 13:00
Total Precipitation :	8.00 (IN)	Total Direct Runoff :	6.90 (IN)
Total Loss :	1.10 (IN)	Total Baseflow :	0.00 (IN)
Total Excess :	6.90 (IN)	Discharge :	6.90 (IN)

Summary Table for 100-Yr, 24-Hr: Pre-SCR Condition

Summary Results for Subbasin "Subbasin-1"			
Project: Seminole Pond #1 Analysis			
Simulation Run: Pre Concrete Slab 100 Subbasin: Subbasin-1			
Start of Run: 01Jan2010, 00:00	Basin Model: Pre-SCR		
End of Run: 03Jan2010, 00:00	Meteorologic Model: 100 Year 24 Hr		
Compute Time: 08Dec2010, 08:35:45	Control Specifications: Control 1		
Volume Units: ☒ IN ☐ AC-FT			
Computed Results			
Peak Discharge : 124.34 (CFS)	Date/Time of Peak Discharge : 01Jan2010, 12:55		
Total Precipitation : 10.00 (IN)	Total Direct Runoff : 8.85 (IN)		
Total Loss : 1.15 (IN)	Total Baseflow : 0.00 (IN)		
Total Excess : 8.85 (IN)	Discharge : 8.85 (IN)		

Summary Table for Mean Annual Maximum: Post-Concrete Slab Condition

Summary Results for Reservoir "Pond 1"			
Project: Seminole Pond #1 Analysis			
Simulation Run: Post Concrete Slab Avg Reservoir: Pond 1			
Start of Run: 01Jan2010, 00:00	Basin Model:	Post-Concrete Slab	
End of Run: 03Jan2010, 00:00	Meteorologic Model:	Mean Annual Maximum	
Compute Time: 08Dec2010, 09:01:30	Control Specifications:	Control 1	
Volume Units: ☒ IN ☐ AC-FT			
Computed Results			
Peak Inflow : 52.15 (CFS)	Date/Time of Peak Inflow :	01Jan2010, 13:05	
Peak Outflow : 30.72 (CFS)	Date/Time of Peak Outflow :	01Jan2010, 14:00	
Total Inflow : 4.12 (IN)	Peak Storage :	7.21 (AC-FT)	
Total Outflow : 3.28 (IN)	Peak Elevation :	74.78 (FT)	

Summary Table for 25-Yr, 24-Hr: Post-Concrete Slab Condition

Summary Results for Reservoir "Pond 1"	
Project: Seminole Pond #1 Analysis	
Simulation Run: Post Concrete Slab 025 Reservoir: Pond 1	
Start of Run: 01Jan2010, 00:00	Basin Model: Post-Concrete Slab
End of Run: 03Jan2010, 00:00	Meteorologic Model: 25 Yr 24 Hr
Compute Time: 08Dec2010, 09:01:30	Control Specifications: Control 1
Volume Units: ☒ IN ☐ AC-FT	
Computed Results	
Peak Inflow : 95.69 (CFS)	Date/Time of Peak Inflow : 01Jan2010, 13:05
Peak Outflow : 82.67 (CFS)	Date/Time of Peak Outflow : 01Jan2010, 13:35
Total Inflow : 7.59 (IN)	Peak Storage : 8.95 (AC-FT)
Total Outflow : 6.73 (IN)	Peak Elevation : 75.36 (FT)

Summary Table for 100-Yr, 24-Hr: Post-Concrete Slab Condition

Summary Results for Reservoir "Pond 1"	
Project: Seminole Pond #1 Analysis	
Simulation Run: Post Concrete Slab 100 Reservoir: Pond 1	
Start of Run: 01Jan2010, 00:00	Basin Model: Post-Concrete Slab
End of Run: 03Jan2010, 00:00	Meteorologic Model: 100 Year 24 Hr
Compute Time: 08Dec2010, 09:01:30	Control Specifications: Control 1
Volume Units: ☒ IN ☐ AC-FT	
Computed Results	
Peak Inflow : 120.49 (CFS)	Date/Time of Peak Inflow : 01Jan2010, 13:05
Peak Outflow : 108.60 (CFS)	Date/Time of Peak Outflow : 01Jan2010, 13:30
Total Inflow : 9.58 (IN)	Peak Storage : 9.70 (AC-FT)
Total Outflow : 8.71 (IN)	Peak Elevation : 75.60 (FT)