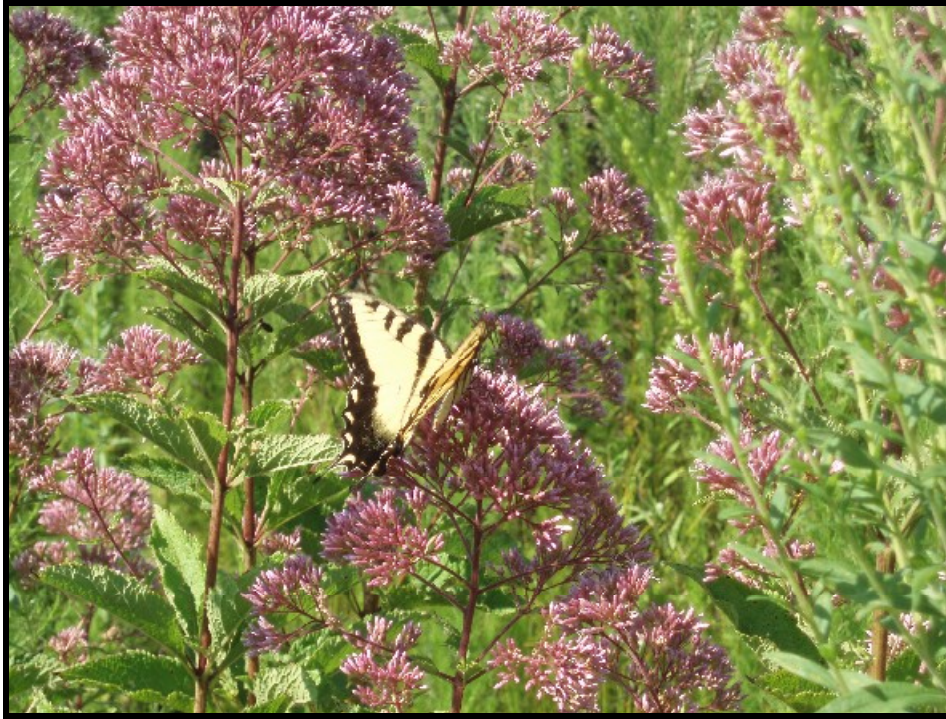


**Floogie Mitigation Project
Bertie County, North Carolina
DENR-EEP Contract No. D06011
Year 1 Monitoring Report**



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Appendix B	2008 Profile and Cross Section Data
Appendix C	2008Gauge Data
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1.0 SUMMARY

This Annual Report details the monitoring activities during the 2008 growing season on the Floogie Mitigation Site. Construction of the site, including planting of trees, was completed in February 2008. The 2008 data represents results from the first year of hydrology and vegetation monitoring for both wetlands and streams.

The design for the Floogie property involved stream restoration and riverine wetland restoration. After construction, it was determined that the project generated 11,149 feet of stream restoration and 25.19 acres of wetland restoration. The As-Built survey is included as Appendix A.

This Annual Report presents the data from 9 automated hydrology monitoring stations, 18 vegetation monitoring plots, two crest gauges, one rain gauge, 20 cross sections, approximately 3000 linear feet of profile survey, and photographic reference locations, as specified in the approved Restoration Plan for the site.

Weather station data from the Windsor Weather Station were used in conjunction with a manual rain gauge located on the site to document precipitation amounts. The manual gauge is used to validate observations made at the automated station. On-site rainfall measurements were well below normal limits for the months of May and June and about normal for the rest of the growing season due to the moderate drought the eastern portion of NC has experienced thus far in 2008 (Section 3.3.2).

In 2008, all hydrology monitoring gauges met the hydrology success criteria as defined in the Restoration Plan for the site. The gauges exhibited hydroperiods above 7 percent of the growing season. However, the gauges correlate with data collected from gauges located on the reference site that also experienced conditions that were drier than normal during the earlier portion of the 2008 growing season.

This Annual Monitoring Report documents vegetation survival on 18 vegetation monitoring plots. The vegetation monitoring indicated survival rates between 440 and 960 stems per acre. The final vegetative success criteria will be the survival of 260 5-year old planted trees per acre at the end of year five of the monitoring period.

Two bankfull events were recorded at the site. The restored stream channel has remained stable and is providing the intended habitat and hydrologic functions. All monitored cross sections and longitudinal profile for 2008 show very little adjustment in stream dimension.

2.0 INTRODUCTION

2.1 PROJECT DESCRIPTION

The Floogie site is located 9 miles northeast of Windsor (**Figure 1**). The property is 104 acres located immediately southwest of SR 1348 (Browns School Road) and is accessed via a farm road that runs adjacent to the channel (Flat Swamp Creek). Construction at the site was completed in February 2008. Groundwater, surface water, and rain gauges were functional beginning March 2008. The 2008 monitoring season represents Year 1 of monitoring for the site.

Flat Swamp Creek has a drainage area of 1,168 acres (1.83 mi²) at the upstream end of the restoration project and 2,150 acres (3.36 mi²) at the downstream end. The wetland restoration area has a drainage area of 1,456 acres (2.28 mi²). The dominant historic land use was agricultural production of crops including cotton, soybeans, corn, and timber, although some

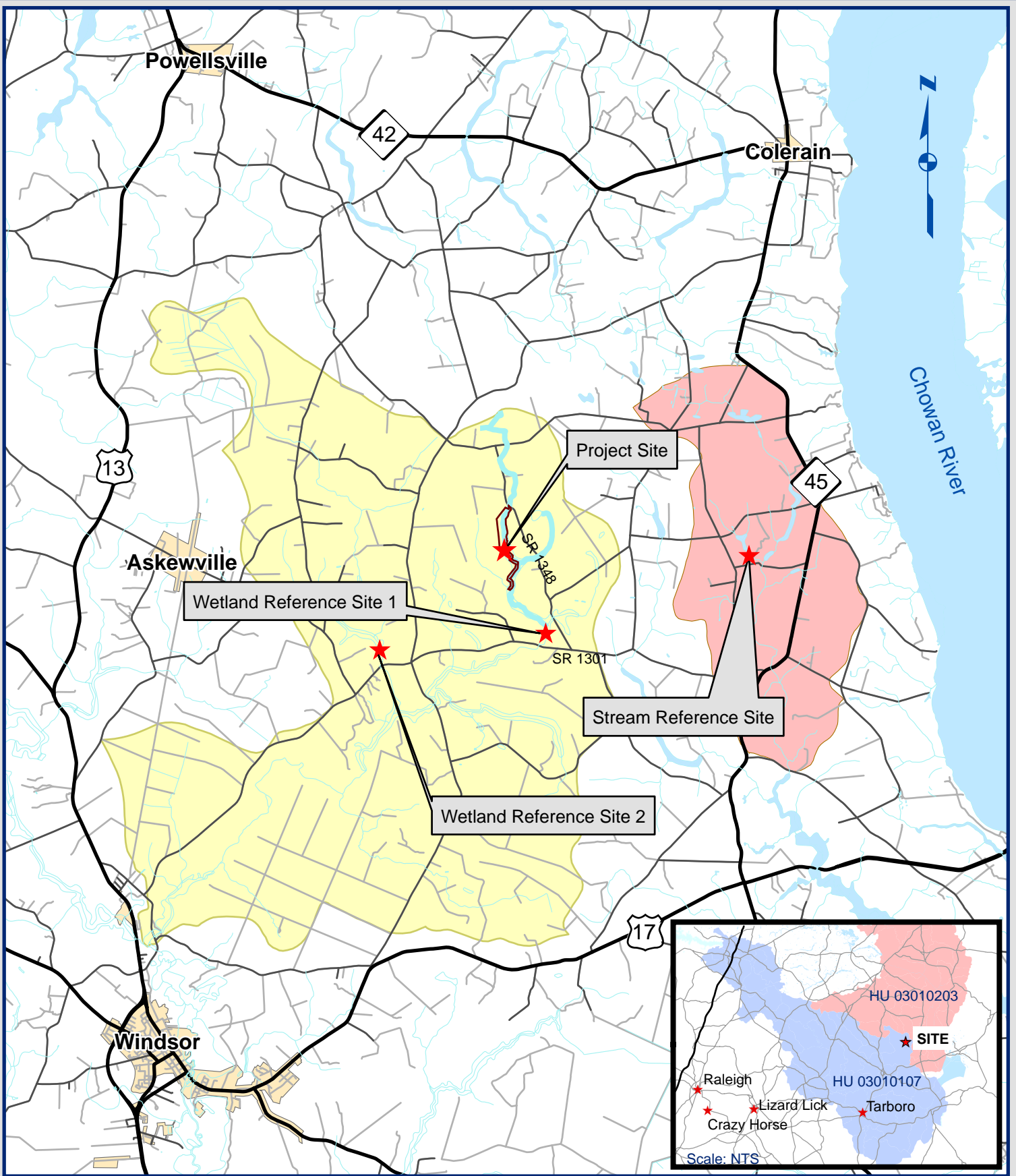




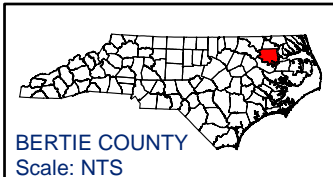


Figure 1.
Project Vicinity Map
Floodie Site

0 0.5 1 2 3 4 Miles

LEGEND

-  NCDOT Roads
-  Existing Waterbody
-  HUC 03010107160050
-  HUC 03010203090030



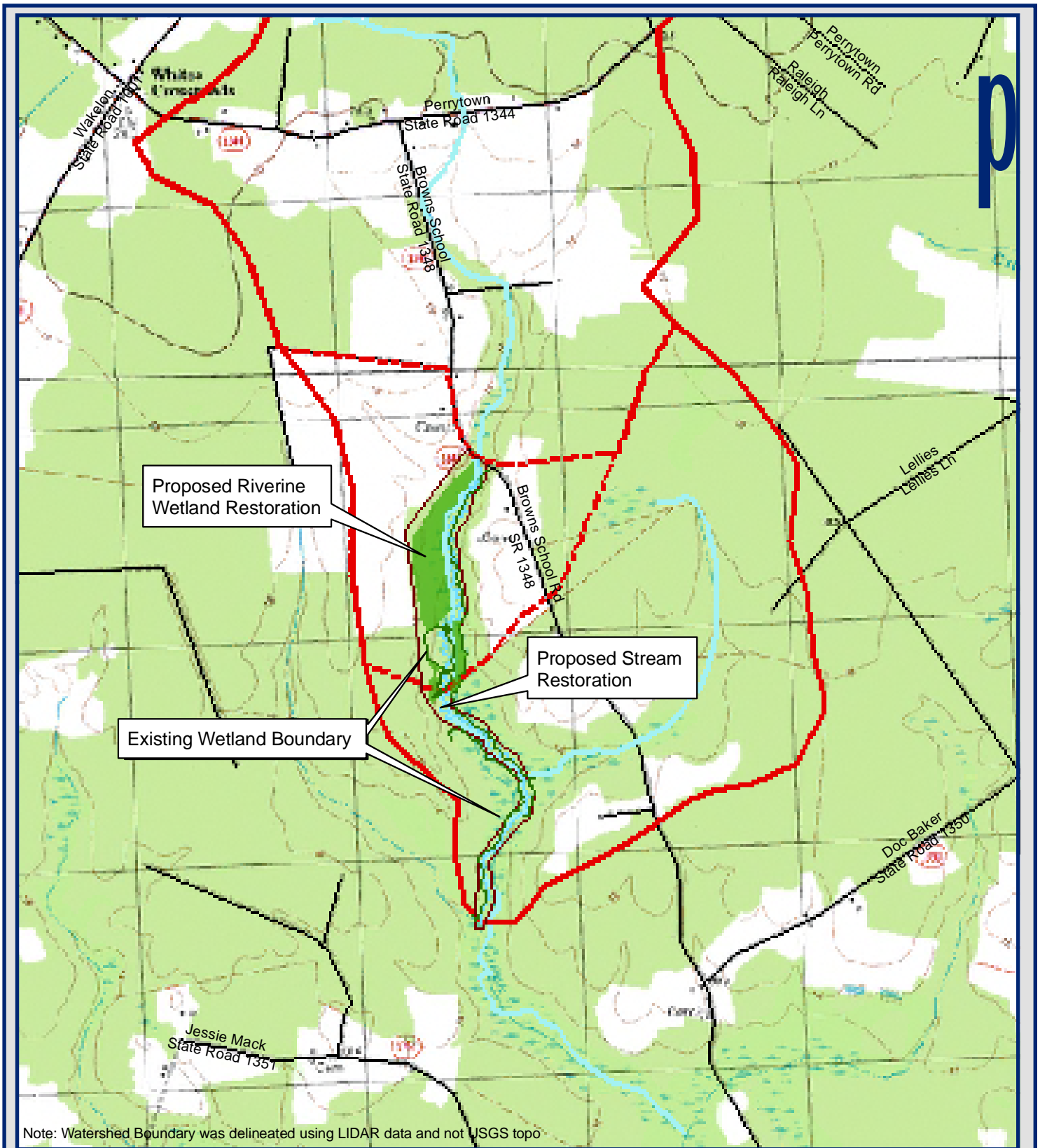
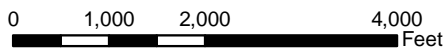



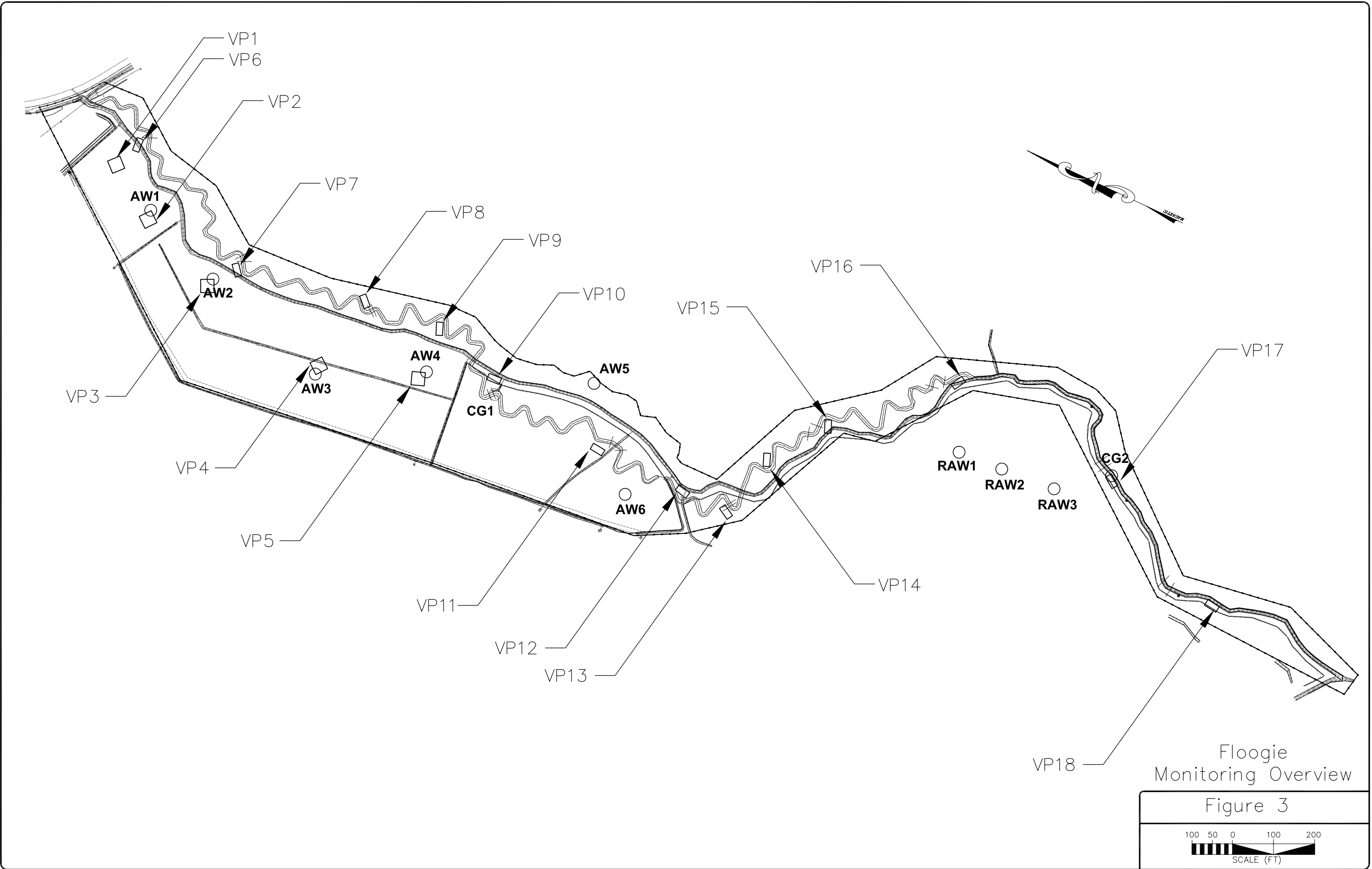
Figure 2.
USGS Quadrangle Map
Flookie Site



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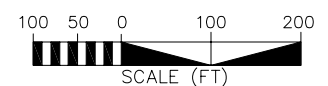
-  NCDOT Roads
-  Stream
-  Existing Wetland Boundary
-  Project Area
-  Potential Riverine Wetland Restoration
-  Watershed Boundary





Floogie
Monitoring Overview

Figure 3



areas were woodlands. Natural drainage patterns throughout the watershed had been historically altered to drain wetlands and promote agricultural production as seen on the USGS Merry Hill, NC topographic quadrangle (**Figure 2**). Numerous agricultural ditches had been constructed on the project site, and streams had been channelized to route water off the site, draining areas that were once wetland. The restoration areas are protected by a conservation easement.

2.2 PROJECT PURPOSE

The objective of this project is to produce a minimum of 11,149 stream mitigation units (SMU) and 25.19 riverine wetland mitigation units (WMU) to the EEP through the full delivery process in the Lower Roanoke River 03010107 hydrologic unit, and to maximize the improvement of riparian and aquatic habitats and water quality through ecological restoration practices. Stream mitigation was provided through restoration on Flat Swamp Creek. Riverine wetland mitigation was provided through restoration. The site was identified and developed by EBX to support the NC EEP full delivery mitigation process. Monitoring of the Floogie Site is required to demonstrate successful mitigation based on the criteria found in the Restoration Plan and through a comparison to reference site conditions. The success criteria components will adhere to EEP and USACE guidelines. Hydrology, vegetation, and stream monitoring are conducted on an annual basis. This Annual Monitoring Report details the results of the monitoring efforts for 2008 (Year 1) at the Floogie Mitigation Site.

The as-built survey documented 11,149 linear feet of stream restoration (**Table 1**). Overbank stream flows will provide a portion of the hydrology for the wetlands. The wetland and stream restoration project will provide multiple ecological and water quality benefits within the Roanoke River Basin. Benefits include nutrient removal, sediment reduction, water storage, improved groundwater recharge, improved in-stream and riparian habitat, and restored wetland habitat. **Table 2** and **Table 3** list the project schedule and contacts, respectively.

Table 1. Project Mitigation Structure and Objectives

Reach Name	As-Built Length (ft)	Restoration Approach
R1	2800	Stream Restoration
R2	2500	Stream Restoration
R3	2400	Stream Restoration
R4	2771	Stream Restoration
1A	322	Headwater Stream Restoration
1B	356	Headwater Stream Restoration
Total	11,149	

2.3 PROJECT HISTORY & SCHEDULE

Table 2. Project Activity and Reporting History

Month	Activity
October 2007	Construction Began
February 2008	Construction Completed
March 2008	Planting Completed
March 2008	Post Construction Monitoring Gauges Installed
April 2008	As-Built Report Submitted
August 2008	1st Annual Monitoring Report
August 2009	2nd Annual Monitoring Report
August 2010	3rd Annual Monitoring Report
August 2011	4th Annual Monitoring Report (Scheduled)
August 2012	5th Annual Monitoring Report (Scheduled)

Table 3. Project Contacts

Contact	Firm Information
Project Manager Norton Webster	EBX-Neuse 1, LLC (919) 608-9688
Designer Jeff Keaton, PE	WK Dickson and Co., Inc (919) 782-0495
Monitoring Contractor Daniel Ingram	WK Dickson and Co., Inc (919) 782-0495

3.0 HYDROLOGY

3.1 HYDROLOGIC SUCCESS CRITERIA

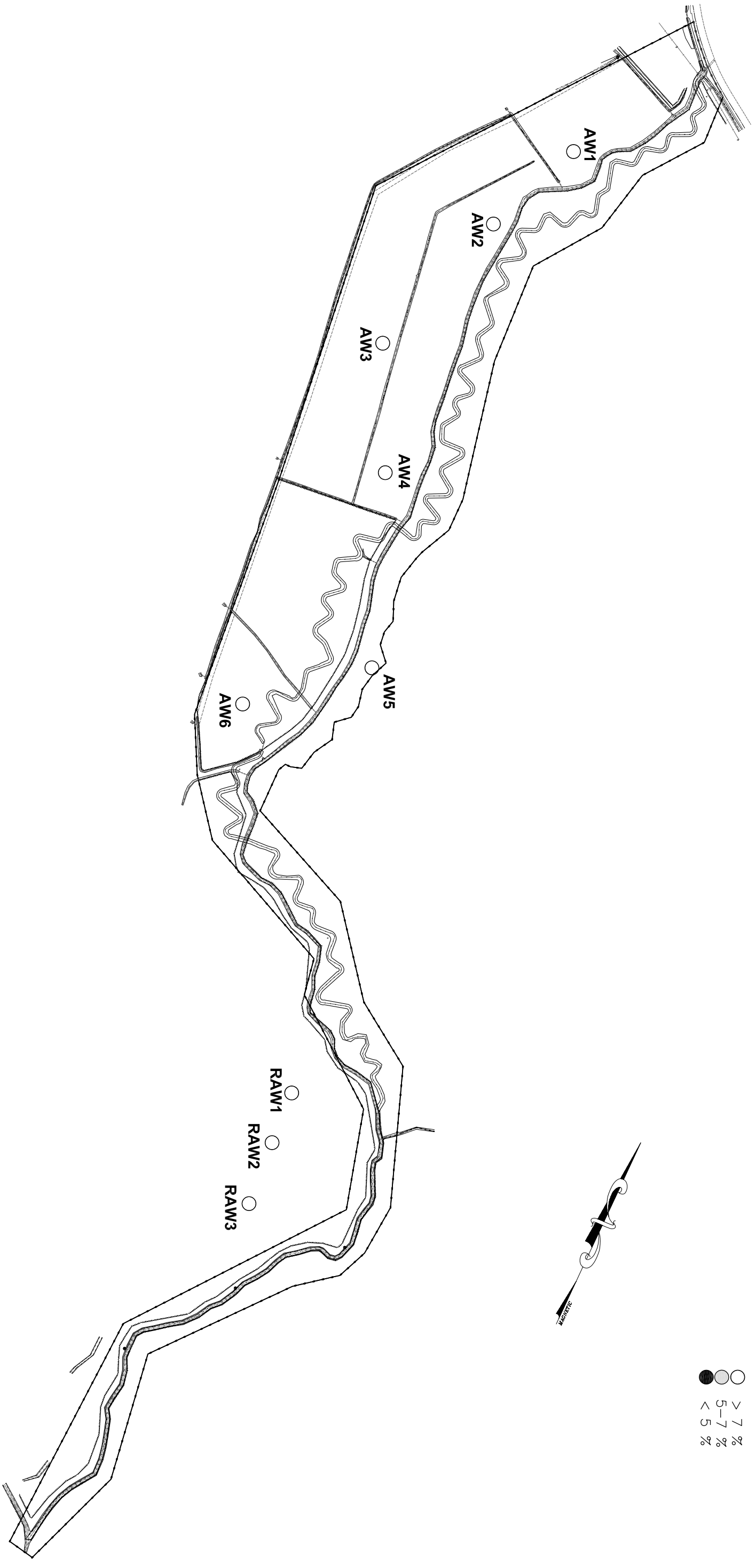
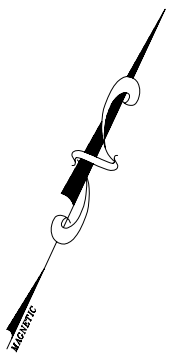
As stated in the Restoration Plan, the hydrology success criterion for the site is to restore the water table at the site so that it will remain within 12 inches of the soil surface for at least 7 percent of the growing season continuously (approximately 16 days). The growing season is from March 22 to November 8. Based on a daily minimum temperature greater than 28° Fahrenheit occurring in 5 of 10 years, the growing season for Bertie County is 232 days long. Gauge data will be compared to reference wetland well data in growing seasons with less than normal rainfall. In periods of low rainfall, if a restoration gauge hydroperiod exceeds the reference gauge hydroperiods and both exceed five percent of the growing season, then the gauge will be deemed successful. The results of hydrology monitoring across the wetland restoration site are presented in this annual monitoring report.

3.2 DESCRIPTION OF HYDROLOGY MONITORING EFFORTS

Six automated HoBo groundwater gauges and one rain gauge were installed prior to the beginning of the first growing season (**Figure 3**). Three additional automated groundwater gauges were installed in a reference wetland. Groundwater gauges were installed to a minimum depth of 40 inches below the ground surface. The monitoring protocol for the site specifies that automated monitoring stations will be downloaded and checked for malfunctions on a monthly basis. During monthly site visits, each groundwater gauge is downloaded and rainfall totals are collected from the on-site rain gauge. During the 2008 growing season, all nine automated data loggers performed as expected, and no periods of missing data were encountered.

WETLAND HYDROPERIOD

- > 7 %
- ◐ 5-7 %
- ◑ < 5 %



Floodie
Hydrologic Success

Figure 4



Automated Gauges

Automated groundwater gauges record water table elevations four times daily at 06:00, 12:00, 18:00, and 24:00. These automatic gauges employ pressure sensors that record water elevation above the bottom of the sensor (with atmospheric pressure compensation). The calibration water table depth is recorded at monthly downloads. To determine wetland hydroperiods, the automatically recorded data are compared to the calibration data to determine a standard correction factor between the calibration gauge and the automatic gauge for each location. The standard correction factor is applied to correct daily readings. The corrected daily readings are then used to determine wetland hydroperiods.

Data Interpretation

Wetland hydroperiods are calculated for four daily water table depth elevations. A hydroperiod is calculated if the water table is equal to or less than 12 inches below ground surface for at least 24 hours. If a gauge falls below -12 inches for two consecutive readings (24 hours) then the hydroperiod ends at the last reading within 12 inches of the ground surface. If a gauge falls below -12 inches for only one reading then maintains a reading above -12 inches for a minimum of 24 hours, the hydroperiod is calculated continuously. This methodology accounts for minor technical malfunctions experienced by the automatic gauges.

3.3 RESULTS OF HYDROLOGY MONITORING

The following hydroperiod statistics were calculated for each monitoring station during the growing season: 1) most consecutive days that the water table was within twelve inches of the surface; 2) cumulative number of days that the water table was within twelve inches of the soil surface; and 3) number of times that the water table rose to within twelve inches of the soil surface (**Table 4**). Depth of groundwater for each of the monitoring gauges is shown in a graph with precipitation (**Figure 5**). This hydrograph demonstrates the reaction at each monitoring location of the groundwater level to specific rainfall events. Raw hydrograph data collected from the monitoring gauges is provided in **Appendix C**.

Table 4. Hydrologic Monitoring Results

2008 Max Hydroperiod (Growing Season 22-Mar through 8-Nov, 231 days)					
Gauge	Consecutive		Cumulative		Occurrences
	Days	Percent of growing Season	Days	Percent of growing Season	
AW1	61	26%	73	32%	3
AW2	40	17%	92	40%	8
AW3	20	9%	46	20%	8
AW4	50	22%	75	32%	4
AW5	49	21%	51	22%	2
AW6	20	9%	56	24%	6
RAW1	45	19%	45	19%	1
RAW2	34	15%	38	16%	2
RAW3	19	8%	19	8%	1

The site was designed to function as a riparian wetland system with associated wet flats. Hydrology in the riparian areas is driven primarily by over bank flooding, while precipitation is the primary hydrologic influence in wet flat areas. Model simulations performed during the design phase of the project indicate that the water table will draw down from April through July; however, the restored channel will maintain an elevated water table throughout the floodplain

area year-round. The data collected for the 2008 growing season for this site indicate that it is performing as described in the Mitigation Plan, with all monitoring stations exceeding the hydrology success criteria.

3.3.1 Site Data

The following hydroperiod statistics were calculated for each monitoring station during the growing season: 1) most consecutive days that the water table was within twelve inches of the soil surface; 2) cumulative number of days that the water table was within twelve inches of the soil surface; and 3) number of times that the water table rose to within twelve inches of the soil surface. The results of these calculations are presented in **Table 4**. **Figure 4** provides charts of the water depth for each of the monitoring gauges on the site. Raw hydrograph data collected from the monitoring gauges are provided in **Appendix C**.

Year 1 monitoring demonstrates that most of the site is functioning as designed, with varying degrees of wetness and saturation across the site. All six automated gauges exceeded the 7 percent hydrologic success criterion. All reference gauges exceeded the 7 percent hydrologic success criteria.

Figure 5a. Groundwater Gauges

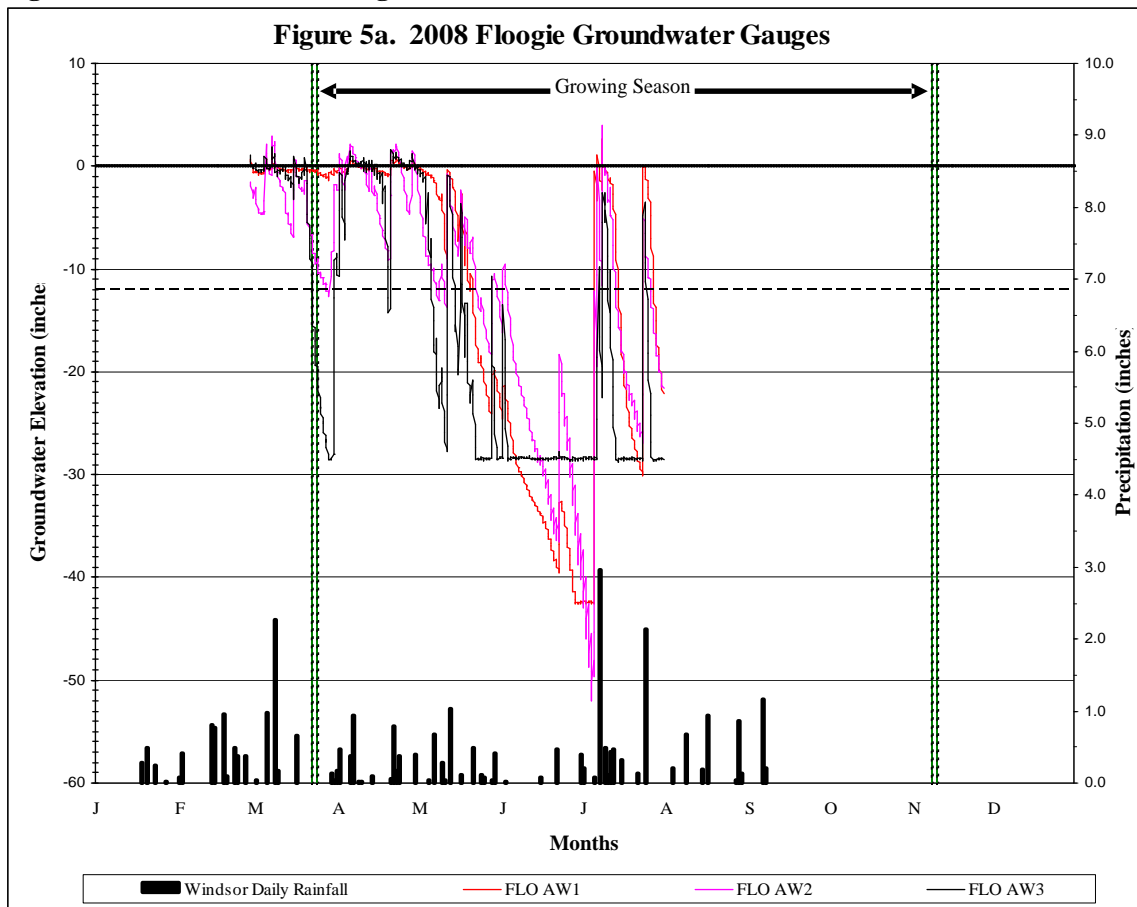


Figure 5b. Groundwater Gauges

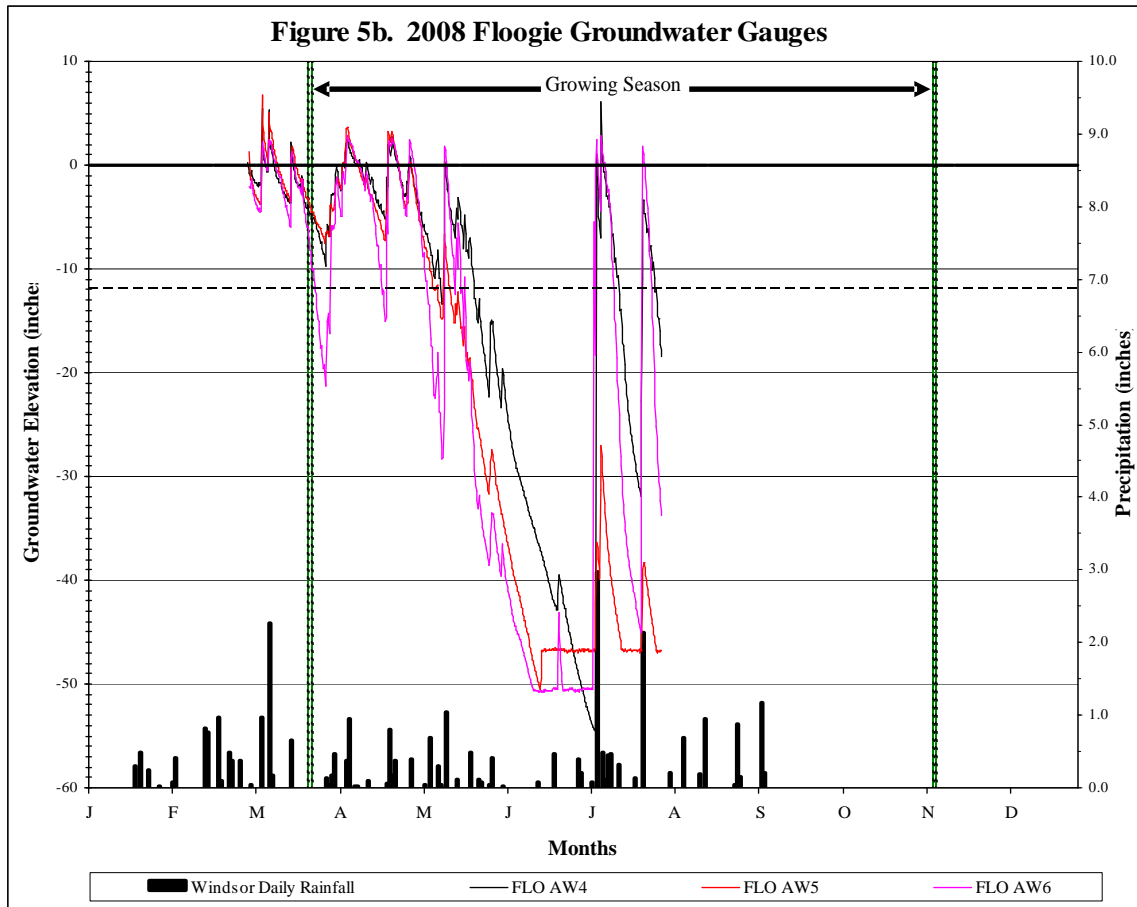
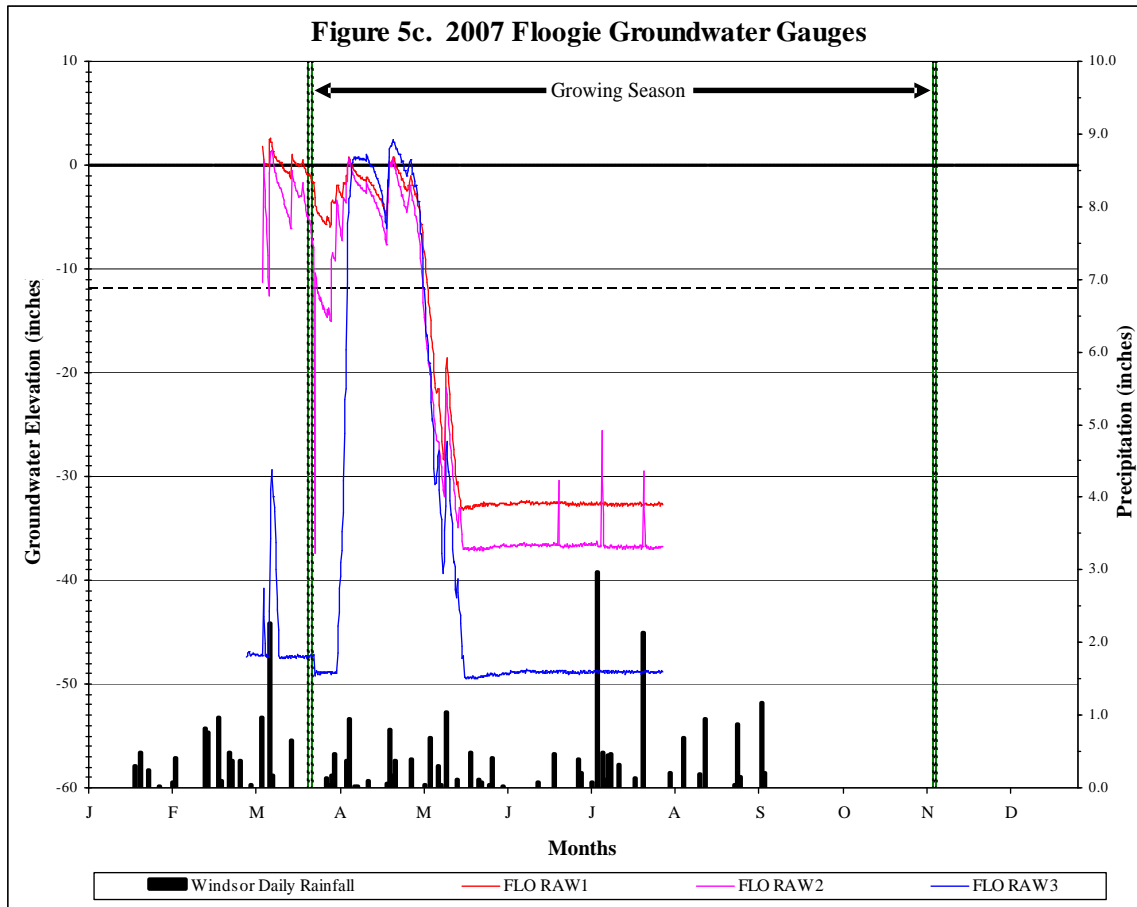


Figure 5c. Groundwater Gauges



3.3.2 Reference Data

The approved Mitigation Plan provides that if the rainfall data for any given year during the monitoring period is not normal, the reference wetland data can be accessed to determine if there is a positive correlation between the performance of the restoration site and the natural hydrology of the reference site.

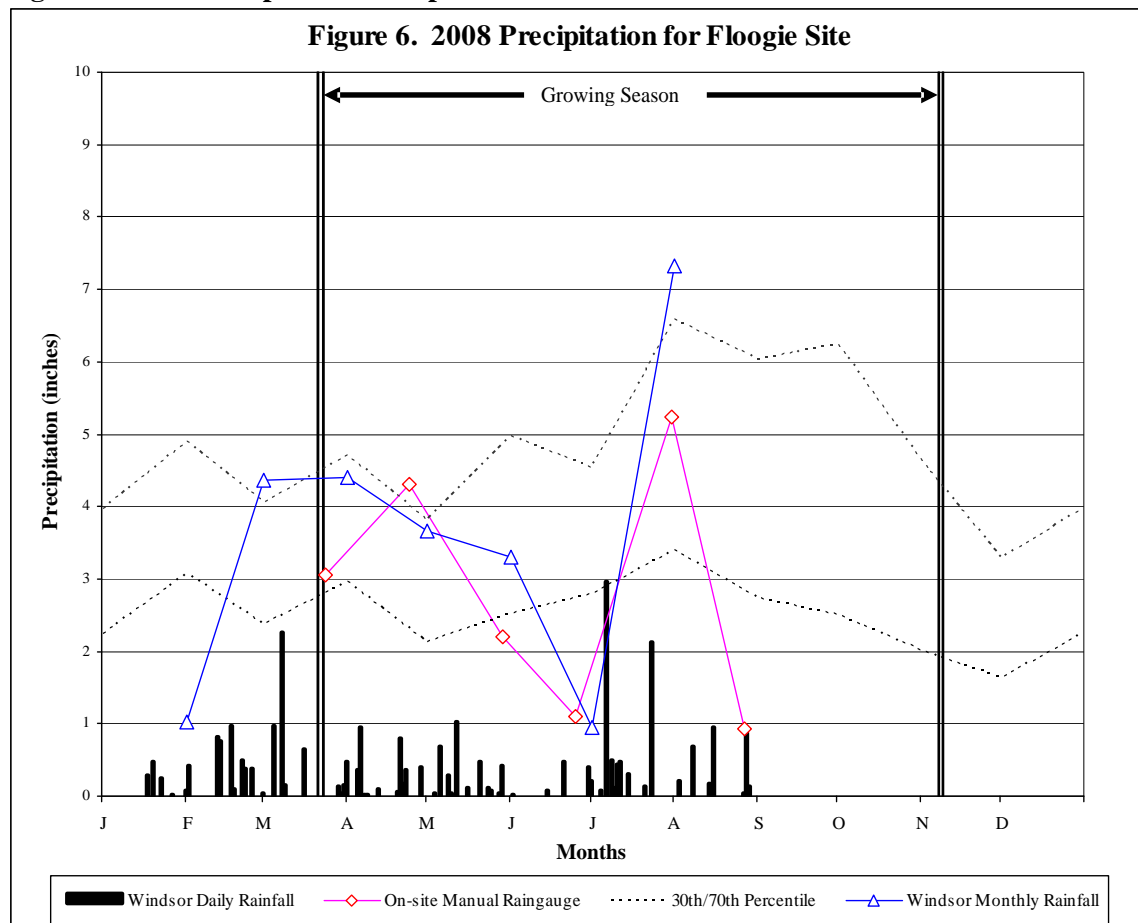
3.3.3 Climate Data

Table 5 and **Figure 6** compare the 2008 monthly rainfall to historical precipitation for Bertie County. Observed precipitation data were collected from an automated weather station in Windsor (Bertie County). The rainfall total from the gauge was within normal limits for the growing season. Rainfall was below normal limits in January and May; and exceeded normal limits in February through July. Monthly rainfall data for August 2008 were not available at the time this report was compiled.

Table 5. Comparison of Normal Rainfall to Observed Rainfall

Month	Average	Normal Limits		Windsor Precipitation	On-Site Precipitation
		30 Percent	70 Percent		
January	4.11	3.07	4.90	1.02	---
February	3.37	2.38	4.07	4.36	---
March	3.98	2.96	4.70	4.41	3.05
April	3.00	2.12	3.82	3.67	4.30
May	3.99	2.53	4.98	3.32	2.21
June	3.87	2.78	4.53	5.22	1.10
July	5.37	3.39	6.59	7.33	5.24
August	4.86	2.74	6.04	3.06	0.93
September	5.10	2.50	6.24	1.37	3.29
October	3.23	2.02	4.63	---	---
November	2.71	1.63	3.28	---	---
December	3.30	2.24	3.97	---	---
Total	46.89	30.36	57.75	33.76	20.12

Figure 6. 2008 Precipitation Comparison



3.4 HYDROLOGIC CONCLUSIONS

Data collected from the groundwater monitoring gauges on the Floogie Mitigation Site in 2008 indicate that all of the hydrology monitoring stations recorded hydroperiods of at least 7 % of the growing season. Thus, all the hydrology monitoring stations meet the hydrologic success criterion for 2008.

Windsor weather station rainfall data indicates that the 2008 growing season rainfall amounts were normal to above normal for most of the growing season, except for January and June, when rainfall levels were below normal. The on-site rainfall was within or above the normal range during March and April, and again in July. In May, June, and August, the site received below normal rainfall.

4.0 VEGETATION

4.1 VEGETATION SUCCESS CRITERIA

Successful establishment of vegetation in wetland restoration and riparian areas will be the survival of 260 planted stems following Year 5 monitoring. The site must also meet the interim success criterion of the survival of at least 320 planted stems per acre at the end of the Year 3 monitoring period. Up to 20 % of the site species composition may be comprised of volunteers. Remedial action may be required should volunteers present a problem or exceed 20 % composition.

A digital image photo log will be used to subjectively evaluate the restoration site over time. A series of images over the five year monitoring period should demonstrate maturation of planted vegetation and volunteer hydrophytic species.

4.2 DESCRIPTION OF SPECIES AND VEGETATION MONITORING

Eighteen semi-permanent vegetation sampling plots were established within the planted restoration areas to monitor the success of planted vegetation. The wetland vegetation plots are 0.10 acres in size (Plots 1 through 5), and the riparian vegetation plots are 0.05 acres in size (Plots 6-through 18). The vegetation plots are distributed across the site, but the precise location and orientation of the plots was random (see locations on as-built drawings in **Appendix A**). The plots cover approximately two percent of the restored site. Ten tree species were planted on the site (**Table 6**).

Table 6. Planted Tree Species

Common Name	Scientific Name	FAC Status
River Birch	<i>Betula nigra</i>	FACW
Green Ash	<i>Fraxinus pennsylvanica</i>	FACW
Water Tupelo	<i>Nyssa aquatica</i>	OBL
Swamp blackgum	<i>Nyssa biflora</i>	OBL
Loblolly Pine	<i>Pinus taeda</i>	FACW
Laurel Oak	<i>Quercus laurifolia</i>	FACW-
Swamp Chestnut Oak	<i>Quercus michauxii</i>	FACW-
Water Oak	<i>Quercus nigra</i>	FACW-
Willow Oak	<i>Quercus phellos</i>	FACW-
Bald Cypress	<i>Taxodium distichum</i>	OBL

All of the planted stems inside each plot were flagged with orange or pink flagging to help in locating them in the future. Each stem is tagged with a sequentially numbered aluminum tag.

4.3 RESULTS OF VEGETATION MONITORING

Stem counts for each of the 18 monitoring stations are presented by species in **Table 7**. Water tupelo counts may also include swamp blackgum as these two similar species are difficult to accurately distinguish at the small seedling stage. One hickory stem was recorded and most likely resulted from an errant stem included from the nursery. A few of the numbered tags have been lost or damaged, mostly on smaller stems. This may be due to tags being washed over small stems during flooding or small animal theft.

Many of the planted stems appeared healthy with recent growth, many doubling in height. The planted stems in the monitoring plots ranged from 440 to 960 stems per acre with an average of 700 stems per acre (**Table 8**). The site is on track to meet the minimum criteria of 360 stems per acre after three years. Mortality leading to lower survival in some plots during the first year can be attributed to various causes that include improper planting technique, dry conditions, herbivory, and weaker individual stems.

Table 7. Results of Vegetation Monitoring – Planted Species by Plot

Species	Plots																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Bald Cypress	6	11	4	22	7	9	6	14	5	9	13	5	12	11	11	3		2
Green Ash	5	9	28	5	15		6	8	4	1	3	17	7	7	5	5	2	7
Hickory		1																
Laurel Oak	2	1		1	1					1		1	2			9		
Overcup Oak	10	11	16	8	7	5	2	7	10	6	5	4	2	12	1	12	12	4
Swamp Tupelo	21	13	13	19	16	11	4	9	6	8	7	9	8	10	15	13	1	6
Willow Oak	11		5	3	11	6	4	6	8	23	8	7	8	7	11	6	14	

Table 8. Summary of Results

Plot #	Stems Planted	Stems Year 1	Survival rate	Stems per Acre Year 1
1	61	55	90%	550
2	60	46	77%	460
3	72	66	92%	660
4	70	58	83%	580
5	65	57	88%	570
6	41	31	76%	620
7	38	22	58%	440
8	49	44	90%	880
9	45	33	73%	660
10	50	48	96%	960
11	47	36	77%	720
12	46	43	93%	860
13	40	39	98%	780
14	51	47	92%	940
15	48	43	90%	860
16	49	48	98%	960
17	29	28	97%	560
18	27	27	100%	540
Average	49.3	42.8	87%	700
Range	27-72	27-66	58-100%	440-960

The most commonly found volunteer species within the plots were also monitored to determine composition and potential effect on success criteria (**Table 9**). Volunteer stems are relatively sparse during the Year 1 monitoring, although a number of species were recorded. The most common appear to be red maple and sweetgum, species having high seed production and good dispersal.

Table 9. Common Volunteer Woody Species

Common Name	Scientific Name	FAC Status
Red Maple	<i>Acer rubrum</i>	FAC
Titi	<i>Cyrilla racemiflora</i>	FACW
Sweetgum	<i>Liquidambar styraciflua</i>	FAC+
Tulip poplar	<i>Liriodendron tulipifera</i>	FAC
Swamp Chestnut oak	<i>Quercus michauxii</i>	FACW-
Elderberry	<i>Sambucas canadensis</i>	FACW-

An estimate of herbaceous vegetation cover was provided to assess the overall stability of the site (**Table 10**). The herbaceous cover is typically dense across most of the site. The wetland plots are located where row crops were previously planted, resulting in a dense cover consisting of numerous weedy species. Although the dense weedy species may be contributing to increased mortality of planted woody stems in a few plots, overall it does not seem to be posing any wide spread problems at this time. Commonly seen weedy vegetation includes ragweed (*Ambrosia artemisiifolia*), Canada goldenrod (*Solidago canadensis*), dogfennel (*Eupatorium capillifolium*), rough cocklebur (*Xanthium strumarium*), and morning glory (*Ipomoea spp.*). This weedy vegetation attributed to the previous cultivation practices and is expected to decrease in future

years. Trumpet creeper (*Campsis radicans*) is starting to cover some planted woody stems in the area around plot 9, and may become a problem in the future.

Table 10. Estimated Herbaceous Total Percent Cover

Plot Number	Estimated Percent Cover
1	100
2	100
3	100
4	100
5	100
6	95
7	90
8	100
9	90
10	85
11	95
12	100
13	90
14	85
15	95
16	100
17	90
18	85

The invasive species Chinese privet (*Ligustrum sinesense*) and Japanese honeysuckle (*Lonicera japonica*) were observed in a few plots. The occurrences of these species are typically associated with the adjacent existing populations of these invasive species and are from regenerating root sprouts and seeds. These species may displace desirable vegetation and should continue to be assessed in successive monitoring years.

4.4 VEGETATION OBSERVATIONS & CONCLUSIONS

Hydrophytic herbaceous vegetation is found across the entire site. Rush (*Juncus effusus*), tear thumb (*Polygonum sagittatum*), rice cutgrass (*Leersia oryzoides*), yellow foxtail (*Setaria pumila* var. *pumila*), deertongue (*Dichanthelium clandestinum*), Pennsylvania smartweed (*Polygonum pennsylvanicum*), giant cane (*Arundinaria gigantea*), and trumpet creeper (*Campsis radicans*), all hydrophytic herbaceous plants, are observed across the site, particularly in areas of periodic inundation. The presence of these herbaceous wetland plants helps to confirm the presence of wetland hydrology on the site.

Weedy species occur throughout the site, and are quite dense in some areas. The presence of this weedy vegetation is a result of the seed bank from previous cultivation practices and is expected to decrease in future years. The weedy vegetation does not seem to be posing any wide spread problems for the planted stems at this time. Trumpet creeper is starting to cover some planted woody stems and may become a problem in the future. The invasive species Chinese privet and Japanese honeysuckle were observed in a few plots, and, although not currently a problem, these species may displace desirable vegetation. Invasive species should continue to be evaluated within the entire easement to ensure that these species do not become a concern for the site

For the 2008 monitoring year, the average number of stems per acre on site is 700. The site is on track to meet the minimum success interim criteria of 320 stems per acre by the end of year three.

5.0 STREAM MONITORING

5.1 STREAM SUCCESS CRITERIA

As stated in the approved Mitigation Plan, the stream restoration success criteria for the site includes the following:

- *Bankfull Events*: Two bankfull flow events must be documented within the five-year monitoring period.
- *Cross-Sections*: There should be little change in as-built cross sections. Cross sections shall be classified using the Rosgen stream classification method and all monitored cross sections should fall within the quantitative parameters defined for "E" or "C" type channels.
- *Longitudinal Profiles*: The longitudinal profiles should show that the bedform features are remaining stable, e.g. they are not aggrading or degrading. Bedforms observed should be consistent with those observed in "E" and "C" type channels.
- *Photo Reference Stations*: Photographs will be used to subjectively evaluate channel aggradation or degradation, bank erosion, success of riparian vegetation and effectiveness of erosion control measures.
- *Benthic Macroinvertebrates*: Sampling of benthic macroinvertebrates within the restored stream channel shall be conducted for the first three years of post-restoration monitoring.

5.2 STREAM MORPHOLOGY MONITORING PLAN

The stream monitoring program will be implemented to document system development and progress toward achieving the success criteria. The monitoring program will be undertaken for 5 years or until the final success criteria are achieved, whichever is longer.

5.2.1 Cross Sections

Two permanent cross sections will be installed per 1,000 linear feet of stream restoration work, with one located at a riffle and one located at a pool. Each cross section will be marked on both banks with permanent pins to establish the exact transect used. A common benchmark will be used for cross sections to facilitate easy comparison of year-to-year data. The annual cross-section survey will include points measured at all breaks in slope, including top of bank, bankfull, inner berm, edge of water, and thalweg, if the features are present. Riffle cross sections will be classified using the Rosgen stream classification system.

5.2.2 Longitudinal Profile

A longitudinal profile will be measured annually throughout the five-year monitoring period. The profile will be measured along a representative length of restored channel. Measurements will include thalweg, water surface, bankfull, and top of low bank. Each of these measurements will be taken at the head of each feature, for example, shallow, pool, and the max pool depth. The survey will be tied to a permanent benchmark.

5.2.3 Hydrology

The occurrence of bankfull events within the monitoring period will be documented by the use of a crest gauge and photographs. The two crest gauges will record the highest watermark between

site visits, and the gauge will be checked monthly to document high flows. Digital images will be used to document the occurrence of debris lines and sediment deposition on the floodplain during monitoring site visits.

5.2.4 Photo Reference Stations

Photographs will be used to subjectively evaluate channel aggradation or degradation, bank erosion, success of riparian vegetation and effectiveness of erosion control measures.

5.3 STREAM MORPHOLOGY MONITORING RESULTS

Table 11 presents stream areas that may require further observation. Overall, the channel is stable with few areas of minor erosion.

5.3.1 Hydrology

Two bankfull events on the site were documented during site visits through the use of the onsite crest gauges (**Table 12**). The largest stream flow recorded on the upstream crest gauge (CG1) was 0.92 feet above bankfull elevation in March 2008. The largest stream flow recorded on the downstream crest gauge (CG2) was 1.18 feet above bankfull elevation in March 2008.

5.3.2 Cross Sections

Year 1 cross section monitoring data for stream stability were collected during July 2008 and compared to baseline data collected in March 2008 (**Table 13; Appendix B and E**). All monitored cross sections were stable and showed little change in channel dimensions.

5.3.3 Longitudinal Profile

A longitudinal profile survey was conducted in Year 1. The profile survey indicated little change to channel dimensions (**Table 13; Appendix B and E**). Coastal plain swamp streams are dynamic in nature, and some channel adjustment is expected.

Table 11. Stream Areas Requiring Observation

ID	Station	Feature	Problem
SPA1	9+75	Left Bank	Scour created by woody debris
SPA2	14+90	Channel-Bedded Log Structure	Minor erosion-improper installation
SPA3	25+40	Left Bank	Erosion, scour
SPA4	28+00	Channel	Point
SPA5	46+50	Right Bank	Scour around bedded log structure
SPA6	49+25	Channel, Right Bank	Vegetation in channel behind bedded log structure; scour
SPA7	55+50	Right Bank	Scour behind log vane
SPA8	89+00	Banks Throughout Reach 4	Pre-existing undercut banks; stable and not in need of repair

Table 12. Crest Gauge Data

Month Recorded	Crest Gauge 1	Crest Gauge 2
January	---	---
February	---	---
March	0.92	1.18
April	0.00	0.00
May	0.00	0.00
June	0.00	0.00
July	0.30	0.50
August	0.00	0.00
September	0.00	0.00
October	---	---
November	---	---
December	---	---

Table 13. Summary of Morphologic Monitoring Parameters

Parameter	Year 1 Reach 1	Year 1 Reach 2	Year 1 Reach 3	Year 1 Reach 4
Bankfull Xsec Area, Abkf (sq ft)	33.6	23.0	28.7	66.6
Avg. Bankfull Width, Wbkf (ft)	44.5	21.6	26.0	56.2
Bankfull W/D	63.5	20.3	28.3	47.0
Bankfull Mean Depth, Dbkf (ft)	0.8	1.1	1.2	1.2
Bankfull Max Depth, Dmax (ft)	3.4	2.7	3.0	4.4

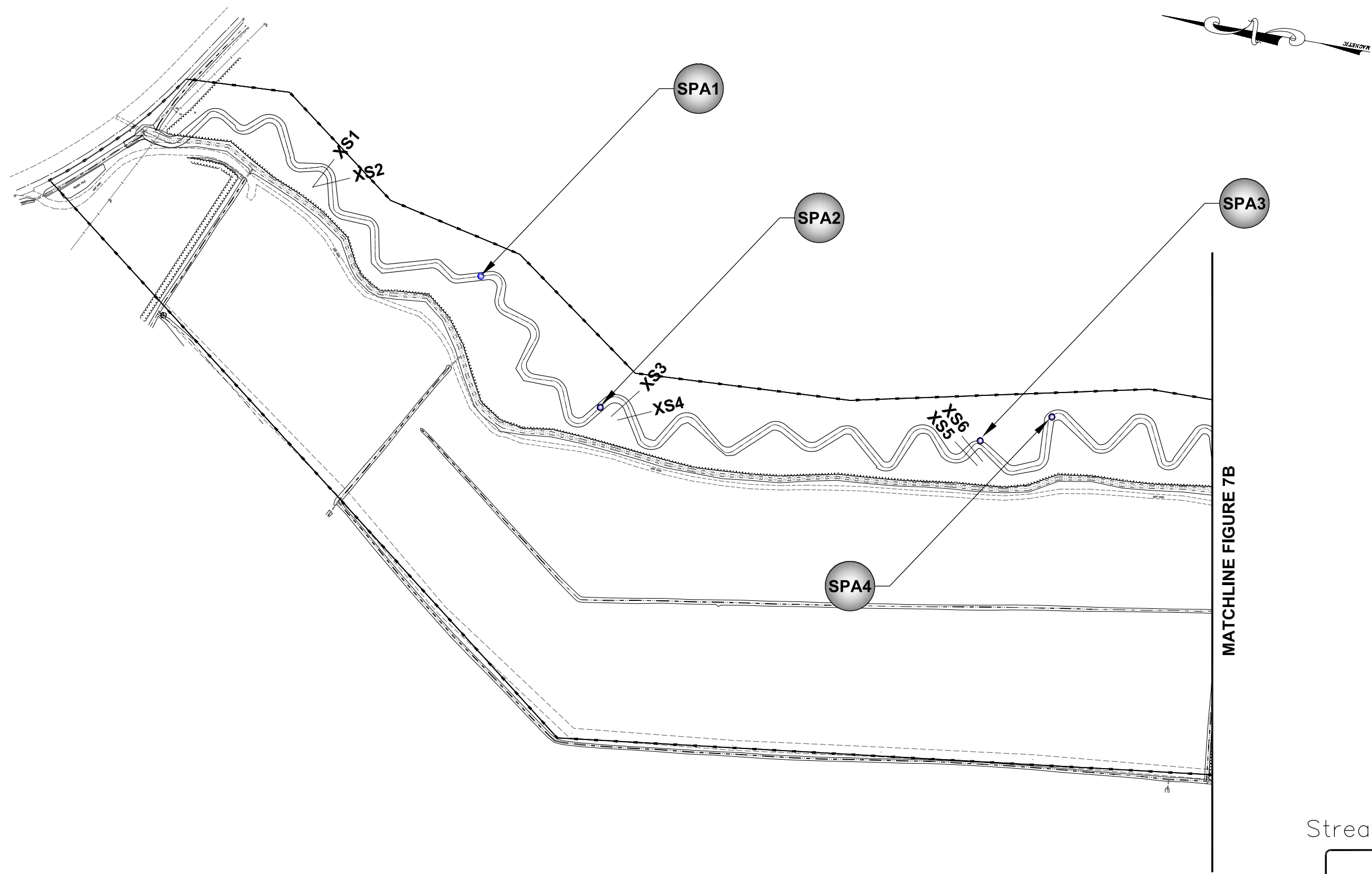
5.4 BENTHIC MACROINVERTEBRATE SURVEY RESULTS

Pre-construction monitoring was performed prior to disturbance of the existing channel in January 2008 (**Table 14** and **Table 15**). Following restoration, Year 1 monitoring will be conducted in January 2009. Additional monitoring will be conducted in January of 2011 (Year 3) and 2013 (Year 5).

Sampling took place at two sites along the restoration reach and one site upstream of the project area on Flat Swamp Creek. Restoration Site 1 was near the downstream end of Reach 4 (between STA 101+00 and 102+00). Restoration Site 2 was near the downstream end of Reach 2 (between STA 36+00 and 37+00). In addition to the restoration sites, one sample was taken upstream of the project area on Flat Swamp Creek. The Qual 4 sampling method outlined in *Standard Operating Procedures for Benthic Macroinvertebrates* (NCDWQ 2006) was utilized at all sampling locations.

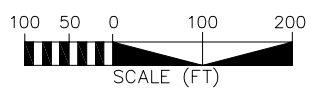
A North Carolina Division of Water Quality stream habitat evaluation form was completed at each sample reach during each sampling event. This form requires that 100 meters of stream be evaluated. At each sampling site, habitat was evaluated approximately 50 meters upstream and 50 meters downstream of where macroinvertebrates were collected.

All macroinvertebrates collected were identified to the lowest taxonomic level by a laboratory certified to do macroinvertebrate identifications through the DWQ Lab Certification program administered by the Environmental Services Section. Findings and conclusions will be reported in the subsequent annual monitoring report following the current year of sampling. Year 5 benthic macroinvertebrate data will be provided as a supplement following the Year 5 report submittal.



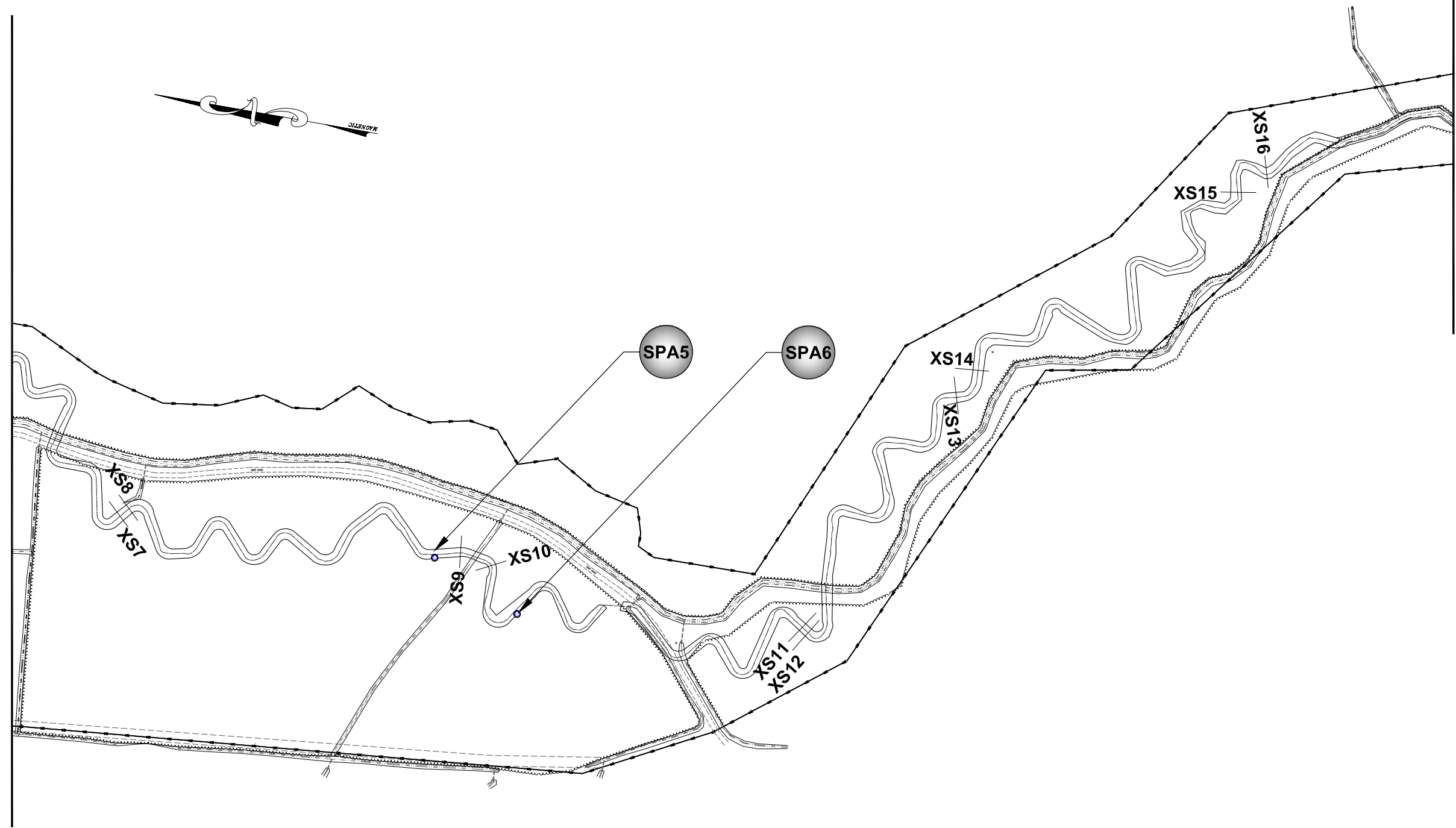
Flogie
Stream Problem Areas

Figure 7A



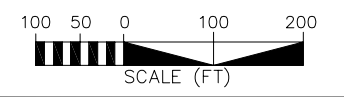
MATCHLINE FIGURE 7A

MATCHLINE FIGURE 7C

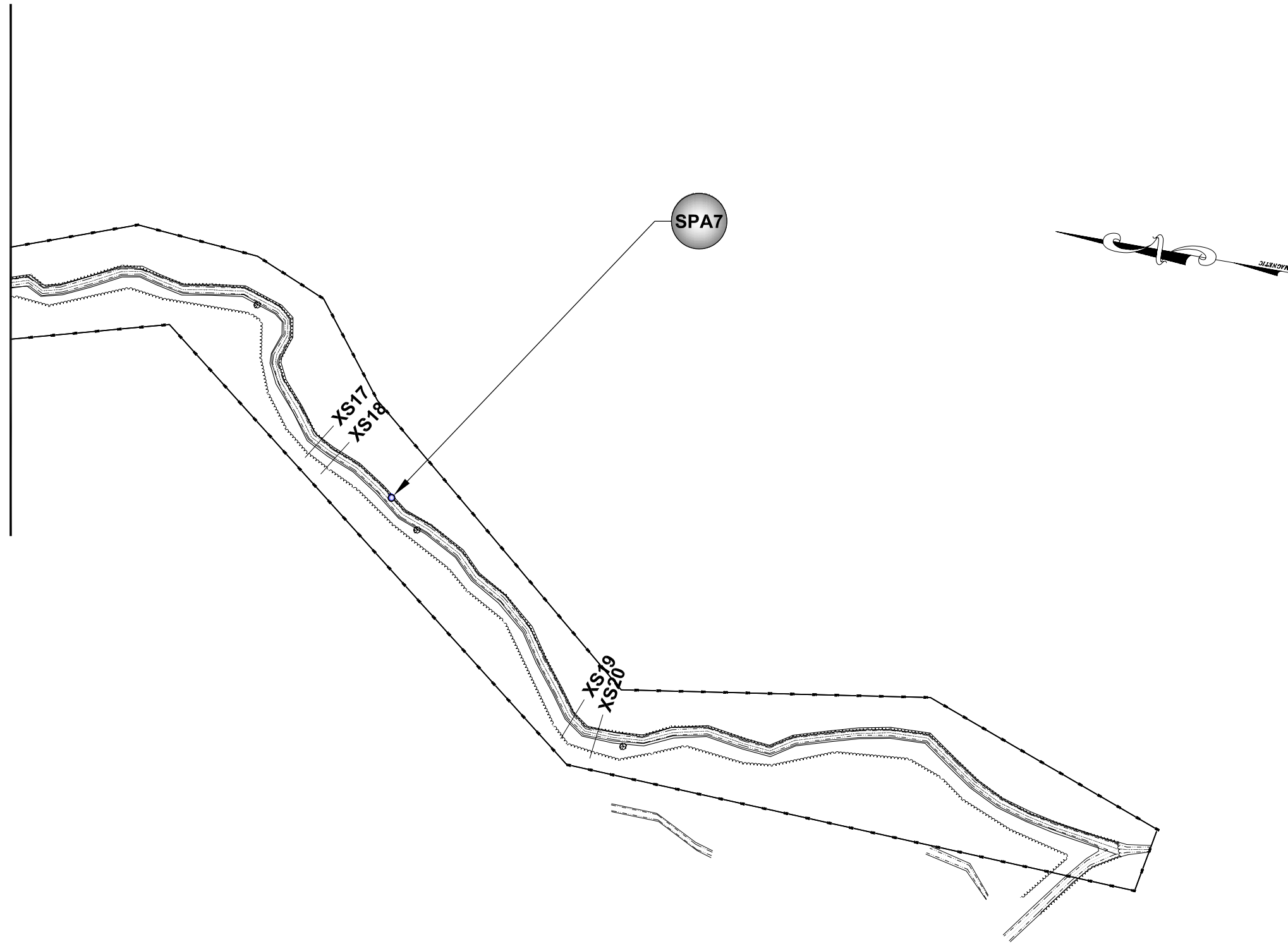


Floogie
Stream Problem Areas

Figure 7B



MATCHLINE FIGURE 7B



Floogie
Stream Problem Areas

Figure 7C

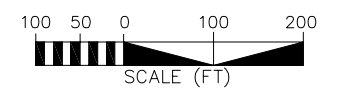


Table 14. Restoration Reach Macroinvertebrate Data

Taxon		Site:	3 (Upstream Ref)	2 (Reach 2)	1 (Reach 4)
			No.	No.	No.
Order	TRICHOPTERA				
Genus Species	<i>Ptilostomis sp</i>		3	-	-
Order	COLEOPTERA				
Genus Species	<i>Enochrus sp</i>		1	-	-
Genus Species	<i>Agabus sp (Larvae)</i>		1	-	-
Genus Species	<i>Peltodytes sp</i>		-	-	1
Order	DIPTERA				
Family	Chironomidae				
Genus Species	<i>Hydrobaenus sp</i>		-	4	19
Genus Species	<i>Limnophyes sp</i>		-	-	1
Genus Species	<i>Psectrotanypus dyari</i>		-	1	-
Genus Species	<i>Zaverlimyia sp</i>		1	-	-
Order	OLIGOCHAETA				
Genus Species	<i>Megadriles</i>		-	-	1
Genus Species	<i>Limnodrilus hofmeisteri</i>		1	9	2
Genus Species	<i>Ilyodrilus templetoni</i>		-	-	1
Genus Species	<i>Nais sp</i>		-	-	1
Genus Species	<i>Ecclipdrilus sp</i>		-	-	5
Order	CRUSTACEA				
Genus Species	<i>Procambarus sp</i>		1	3	1
Genus Species	<i>Crangonyx sp</i>		16	10	4
Genus Species	<i>Caecidotea forbesi</i>		6	-	-
Genus Species	<i>C. racovitzai</i>		10	-	-
	Taxa Richness		9	5	10
	EPT Taxa Richness		1	0	0
	NC Biotic Index		7	8.6	8.8

Streams in Bertie County are in NC DWQ Swamp Region B. Streams in this area have been severely affected by drought condition in late 2007, and it is expected that not many sites have the expected invertebrate community for “natural” swamp streams, including NCBI values less than 7.0 and EPT taxa richness >4. Under these difficult conditions, it is best to look at patterns, rather than to strictly apply DWQ criteria.

Only the upstream control site was dominated by the usual swamp taxa, especially amphipods (*Crangonyx*) and isopods (*Caecidotea spp*). The downstream sampling locations were dominated

by smaller and more tolerant species, especially midges (*Hydrobaenus*) and worms. This produces a change in biotic index from 7.0 (almost “Natural”) to 8.6-8.8 (“Severe Stress”).

5.5 STREAM CONCLUSIONS

In-stream structures installed within the restored stream included log vanes, bedded log structures, woody debris bundles, and root wads. Visual observations of structures throughout the 2008 growing season have indicated that most structures are stable and functioning as designed. The lower portion of the restored stream may be slightly impounded by the remnants of a rock check dam installed during construction. Localized areas of elevated profile (shallows) have been colonized by wetland plant species due to low stream flow. Two minor localized areas of erosion were present but do not present a problem to stream stability (STA 14+90 and STA 25+40). These areas are subject to concentrated overland flow entering the channel and may need additional stabilization in the future. No corrective actions are recommended at this time as the channel appears to be moving toward stability.

Photographs were taken throughout the monitoring season to document the evolution of the restored stream channel (Appendix D). Herbaceous vegetation is moderately dense to dense along the restored stream. Pools have maintained a variety of depths and habitat qualities, depending on the location and type of scour features (logs, root wads, transplants, etc.). During the early portion of the growing season a consistent stream flow was present during the monthly site visits. The stream flow waned during the latter part of the growing season; however, water was observed in the pools throughout the growing season.

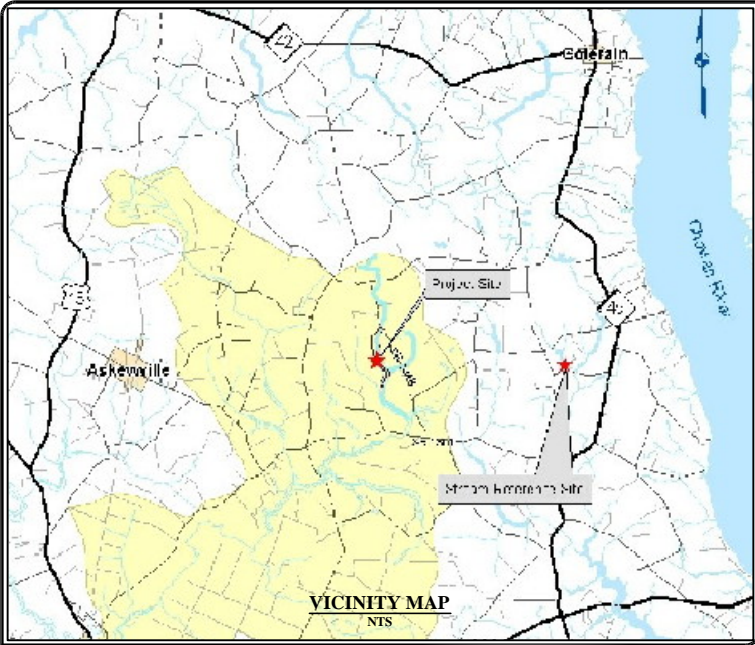
6.0 CONCLUSIONS AND RECOMMENDATIONS

- Despite drought conditions in the latter part of 2007, all hydrology monitoring gauges recorded consecutive hydroperiods for at least 7 percent of the growing season for 2008.
- The restored stream channel has remained stable and is providing the intended habitat and hydrologic functions. All monitoring cross sections and longitudinal profile for 2008 showed very little adjustment in stream dimension.
- Vegetation monitoring has determined the average number of stems per acre on site to be 700, which is a survival rate of 87 percent.
- Vegetative and stream monitoring will continue through 2013.

APPENDIX A

As-Built Survey

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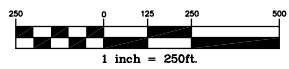
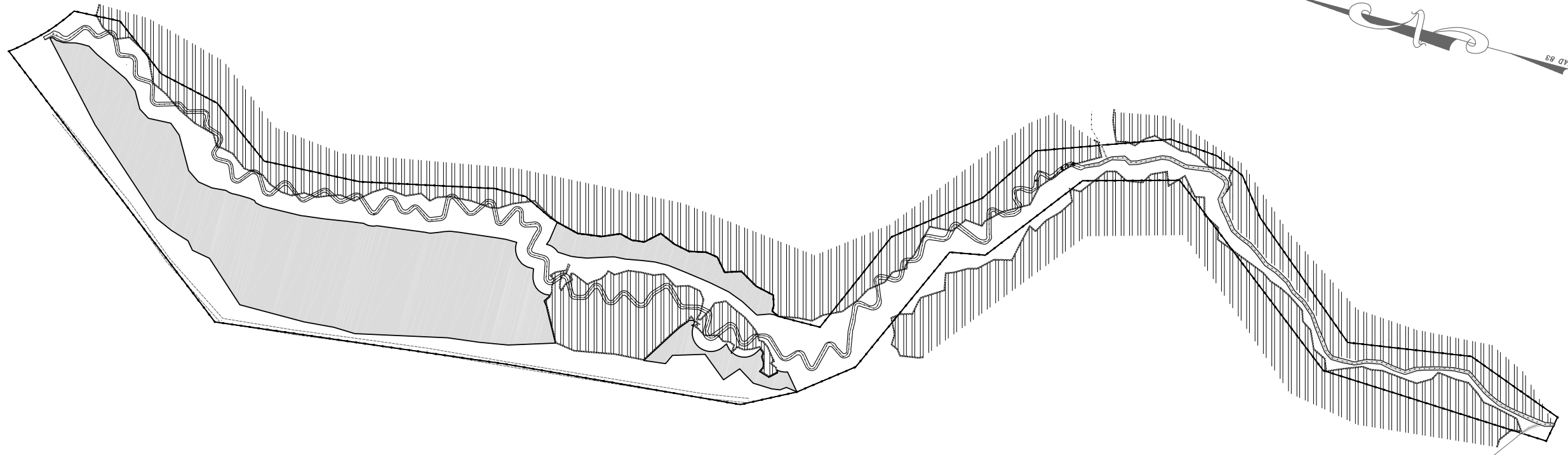
AS-BUILT PLAN SET

APRIL 2008

LOCATION: BERTIE COUNTY, NORTH CAROLINA

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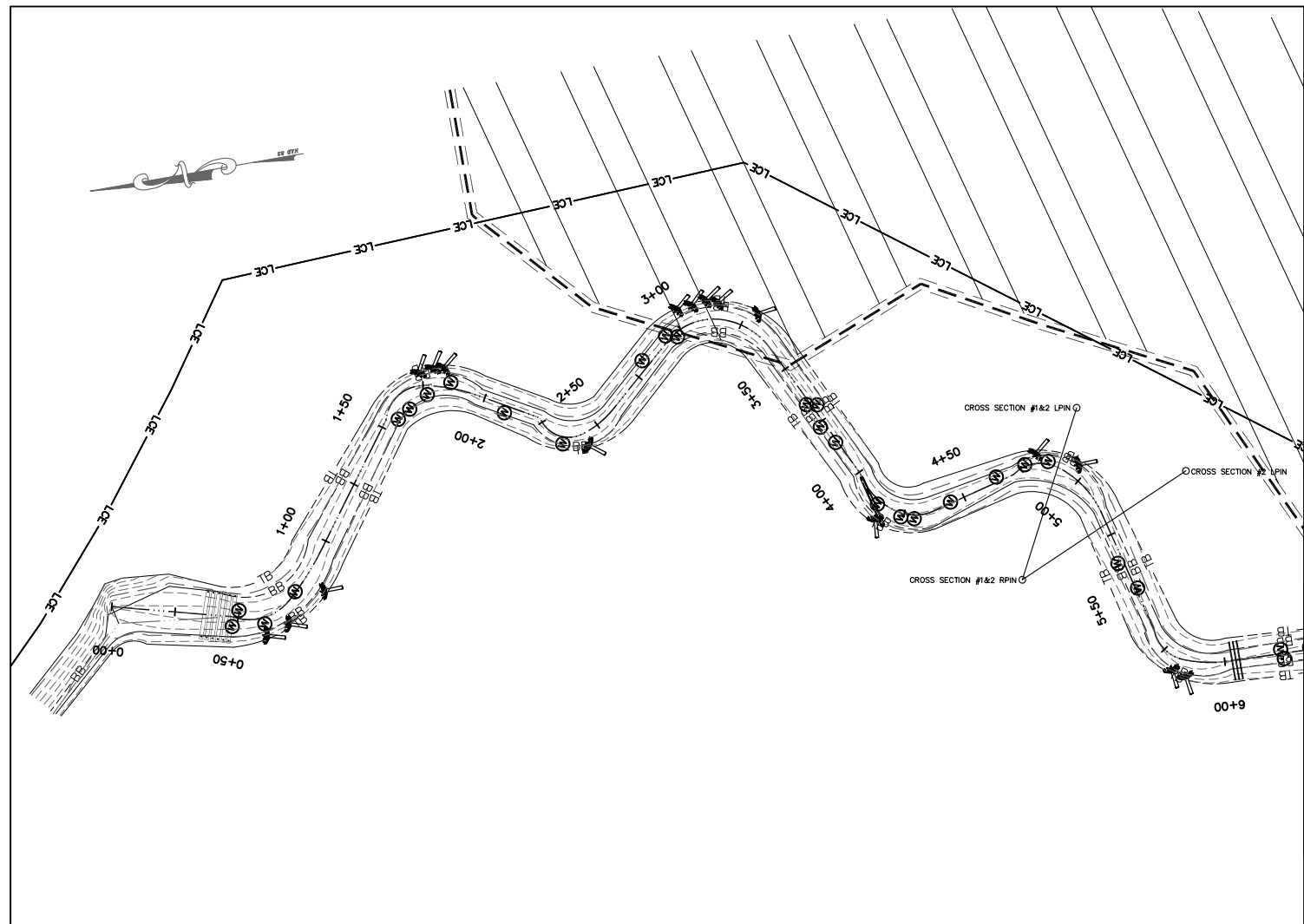
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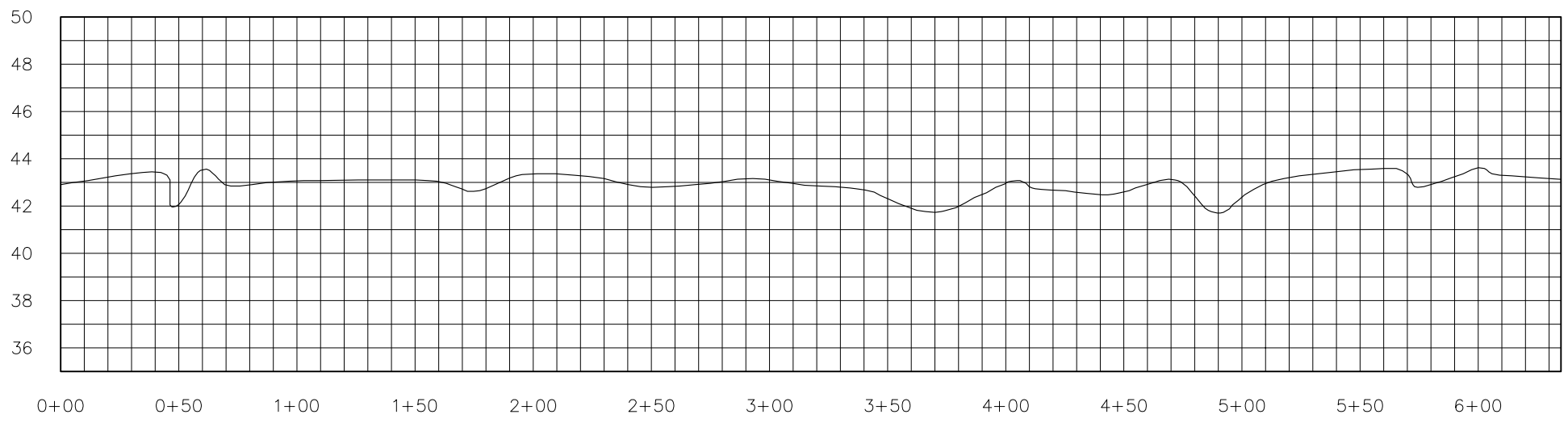
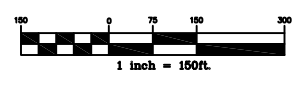
FLOOGIE AS-BUILT PLANS
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LOG RAMP	
LOG GRADE CONTROL	
LOG TOE PROTECTION	
LOG VANE	
FORD CROSSING	
ROOT WAD	
CHANNEL PLUG	
WETLAND CHANNEL PLUG	
EXISTING WETLANDS	
BEDDED LOG STRUCTURE	
SMALL WOODY DEBRIS	



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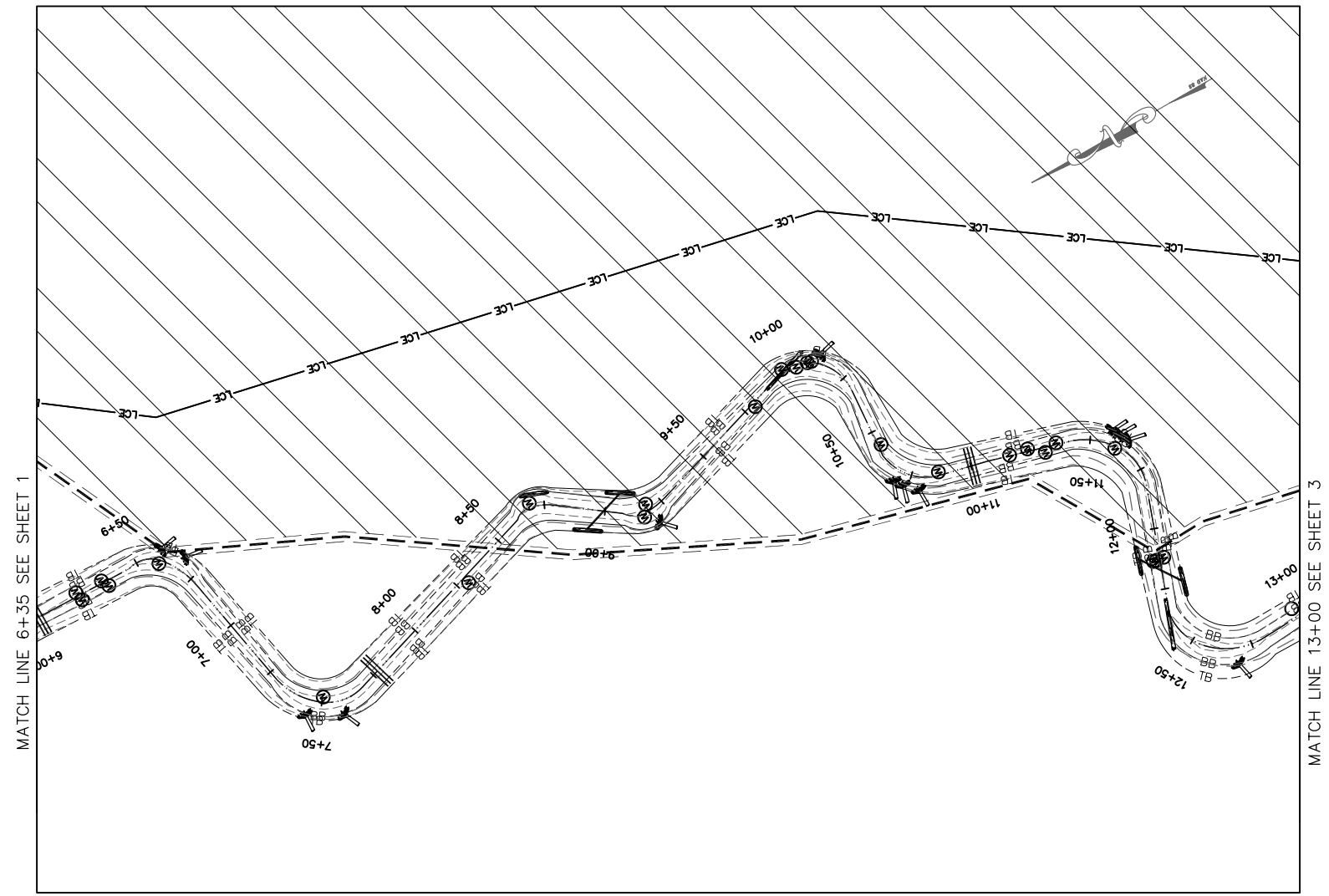
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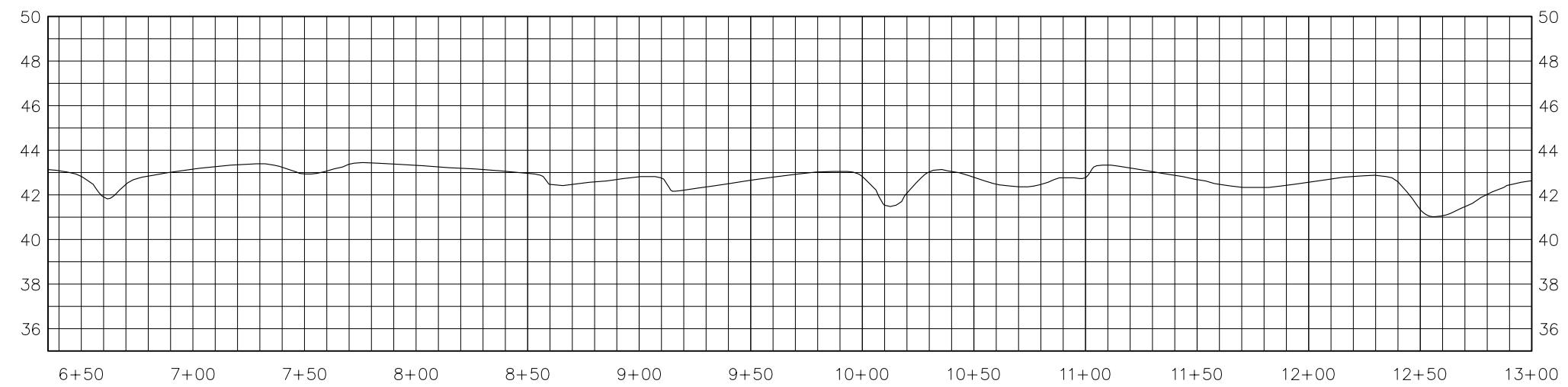
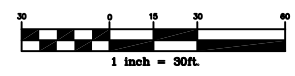
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SMALL WOODY DEBRIS	



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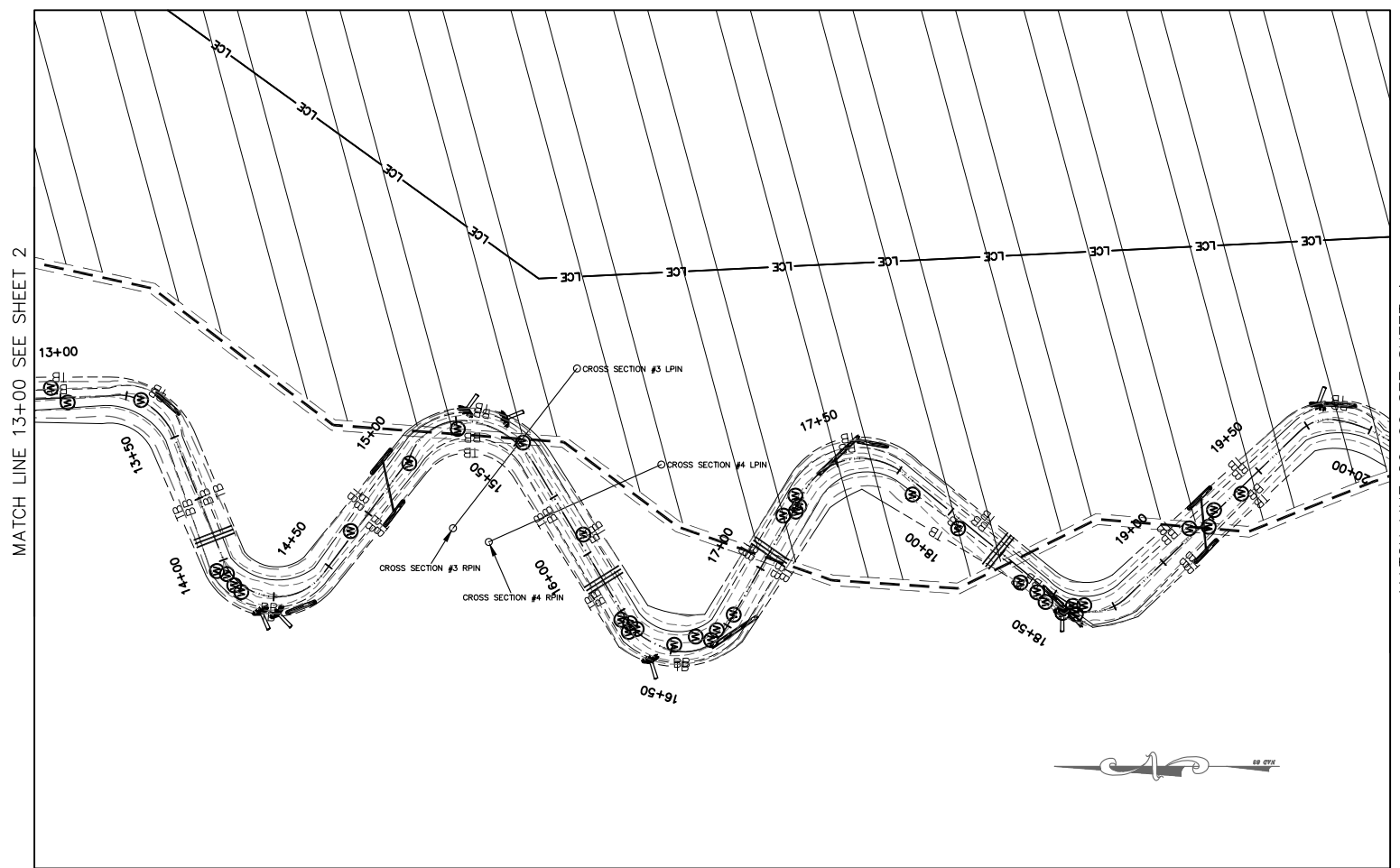
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











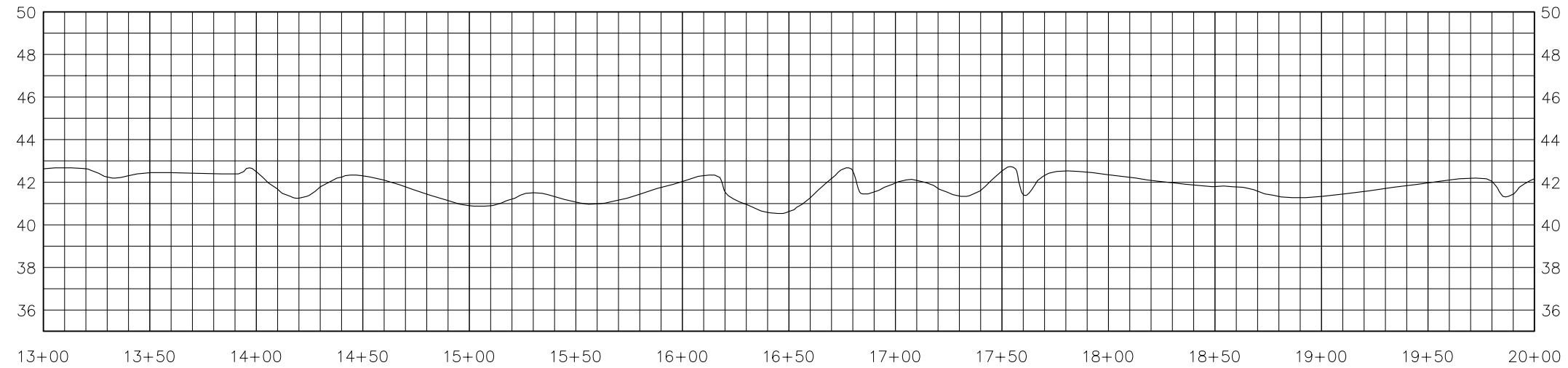
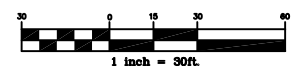
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 - LOG GRADE CONTROL 
 - LOG TOE PROTECTION 
 - LOG VANE 
 - FORD CROSSING 
 - ROOT WAD 
 - CHANNEL PLUG 
 - WETLAND CHANNEL PLUG 
 - EXISTING WETLANDS 
 - BEDDED LOG STRUCTURE 
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Horizontal Scale: 1 inch = 30ft.
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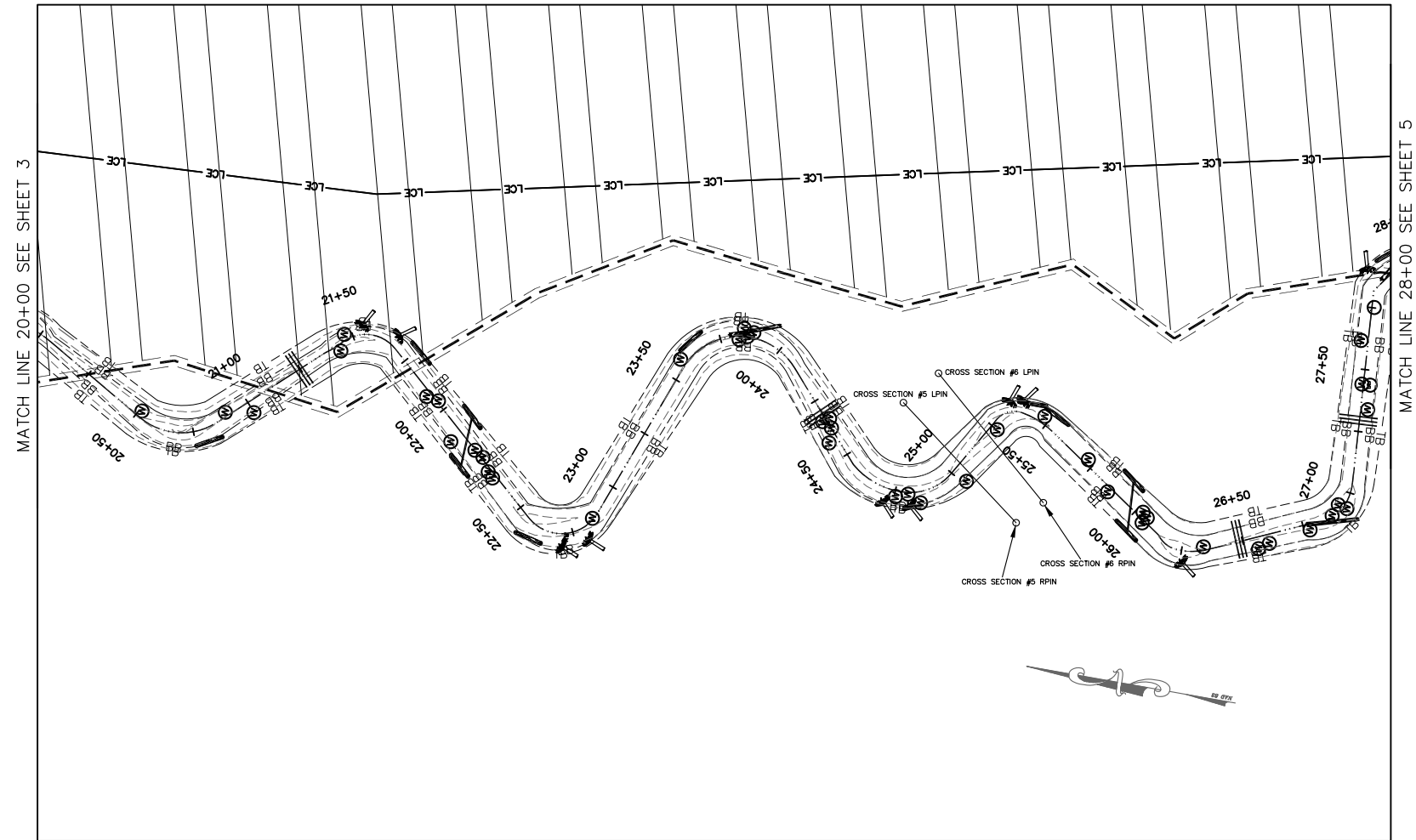
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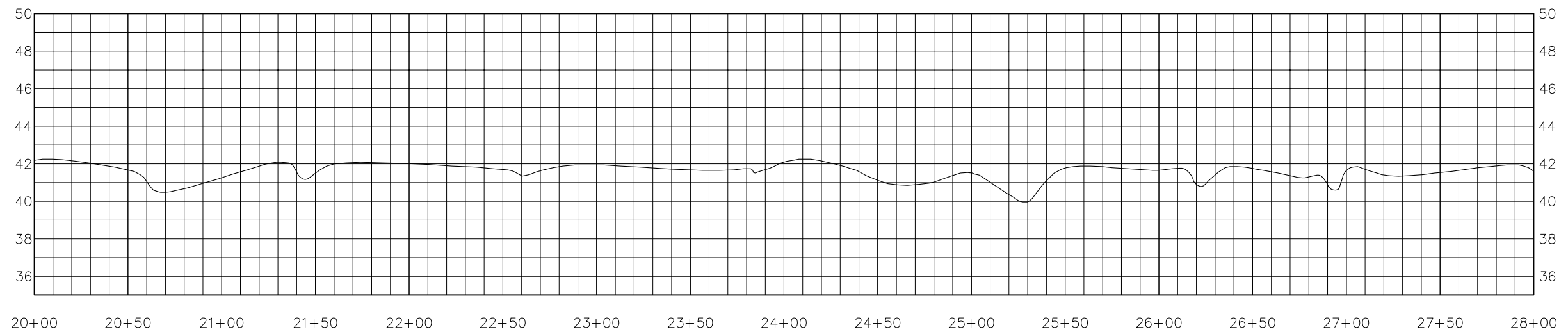
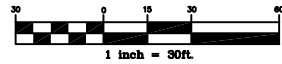
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 - TOP OF BANK ——— TB ———
 - LIMITS OF CONSERVATION EASEMENT ——— LCE ———
 - LOG RAMP 
 - LOG GRADE CONTROL 
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 - BEDDED LOG STRUCTURE 
 - SMALL WOODY DEBRIS 



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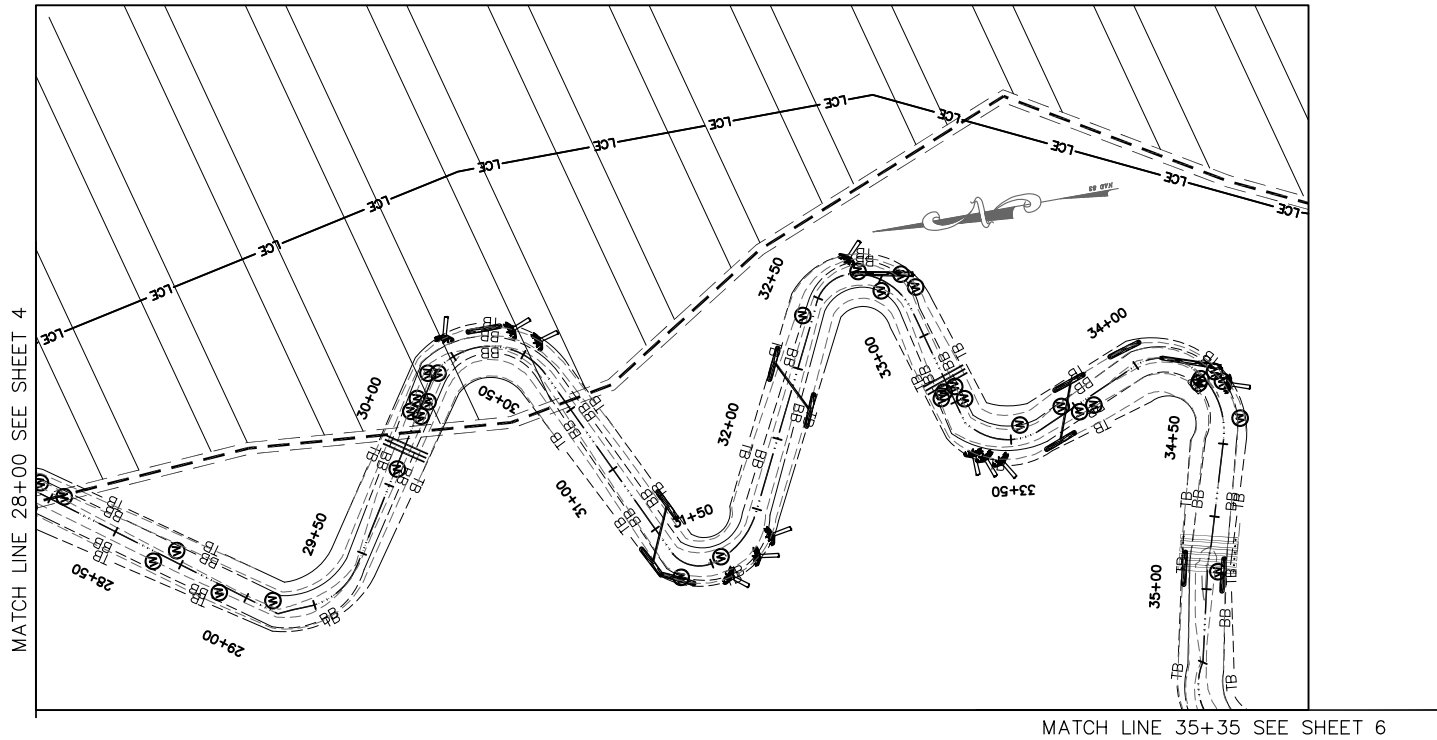
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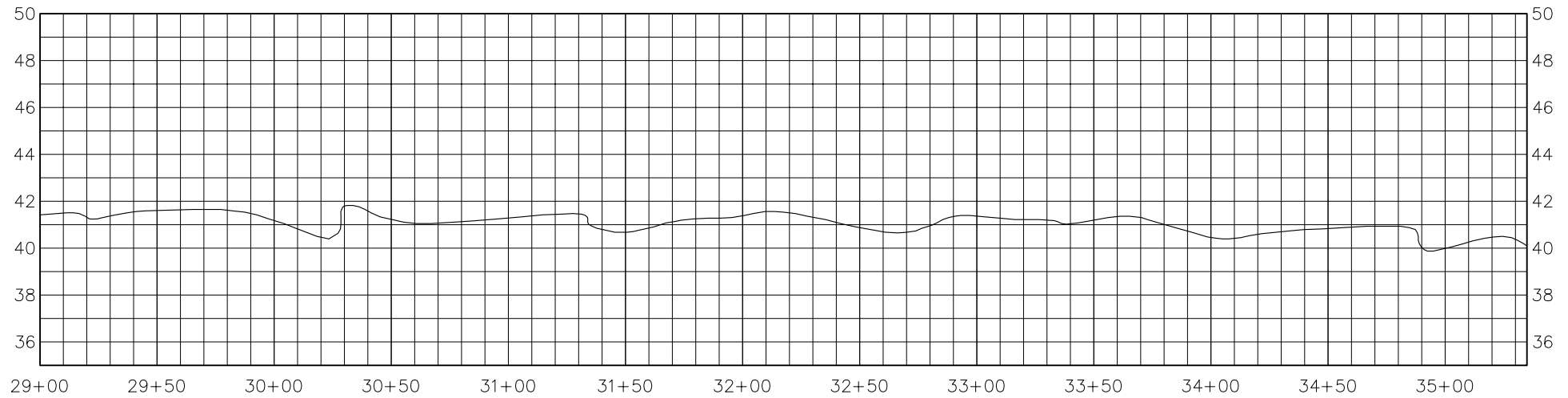
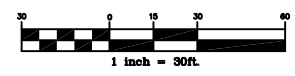
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- LEGEND**
- EXISTING CONTOURS ————
 - CENTERLINE OF EXISTING DITCH - - - -
 - BOTTOM OF BANK ——— BB ———
 - TOP OF BANK ——— TB ———
 - LIMITS OF CONSERVATION EASEMENT ——— LCE ———
 - LOG RAMP
 - LOG GRADE CONTROL
 - LOG TOE PROTECTION
 - LOG VANE
 - FORD CROSSING
 - ROOT WAD
 - CHANNEL PLUG
 - WETLAND CHANNEL PLUG
 - EXISTING WETLANDS
 - BEDDED LOG STRUCTURE
 - SMALL WOODY DEBRIS



Horizontal Scale: 1 inch = 30ft.
 Vertical Scale: 1 inch = 3ft.

REV. NO.	DESCRIPTION	DATE

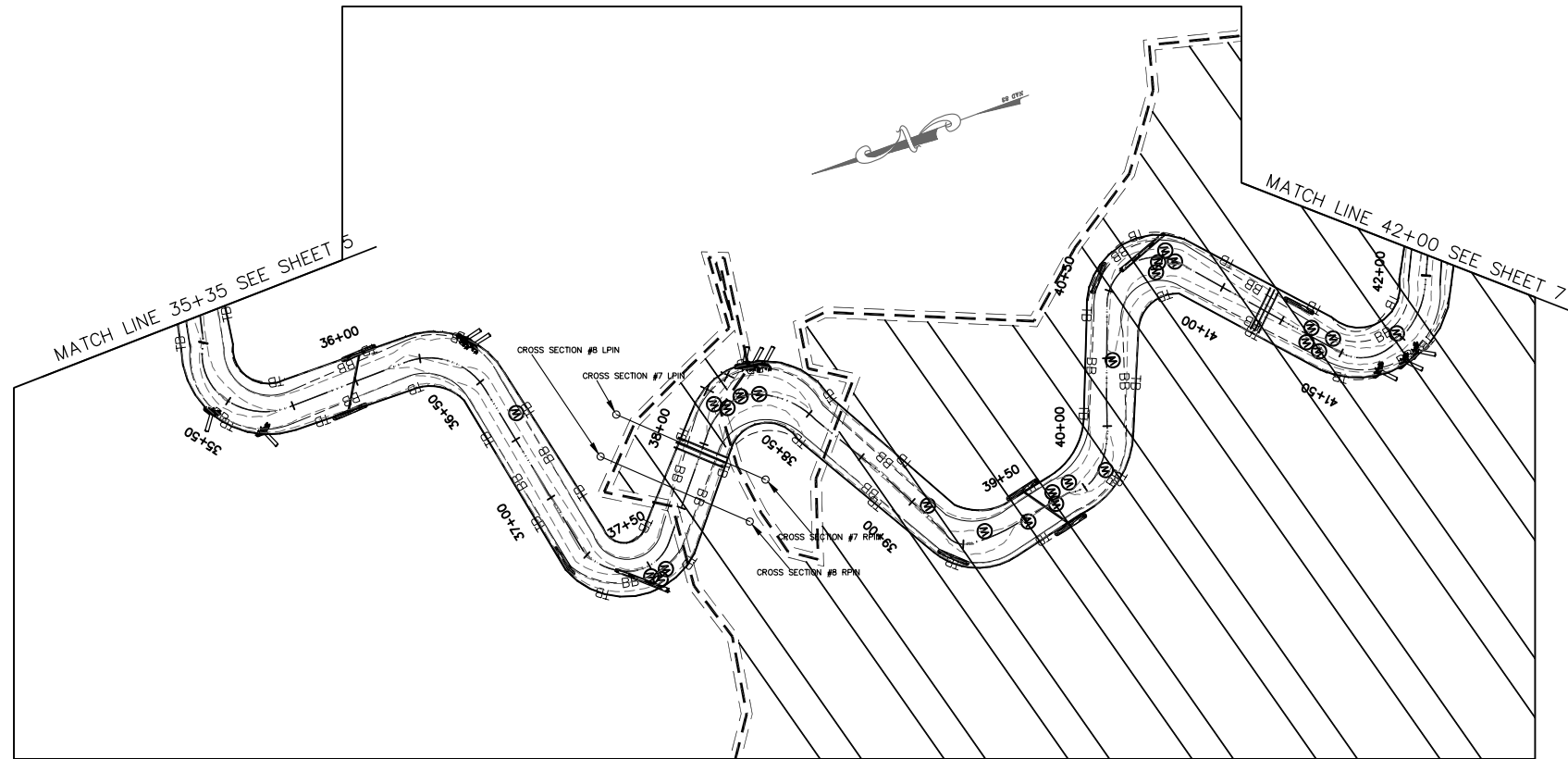
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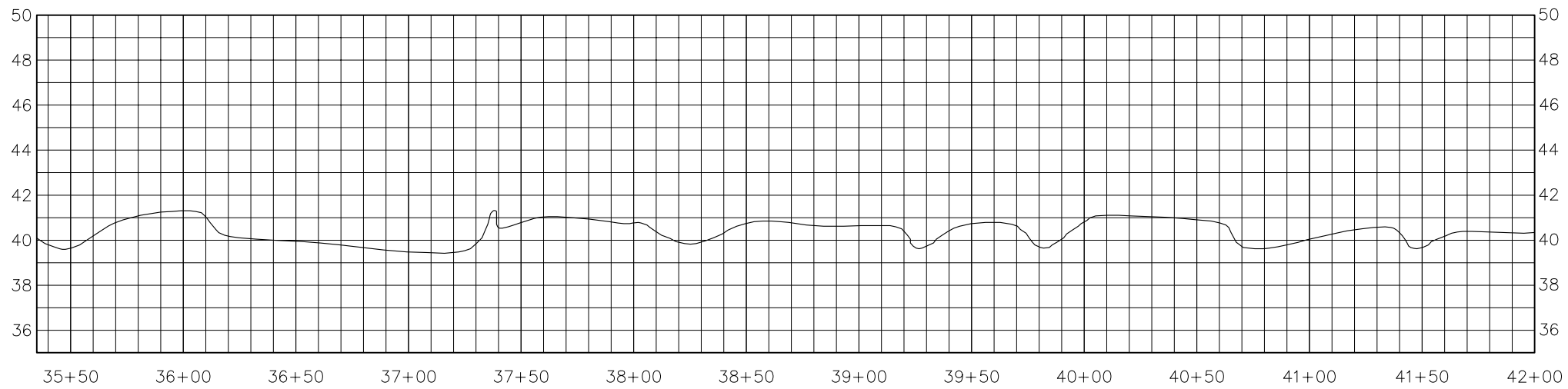
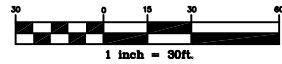
ENVIRONMENTAL BANC & EXCHANGE, LLC
 FLOOGIE MITIGATION PROJECT
 BERTIE COUNTY, NORTH CAROLINA

FLOOGIE AS-BUILT PLANS
 STA. 28+00 TO STA. 35+35

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- LEGEND**
- EXISTING CONTOURS
 - CENTERLINE OF EXISTING DITCH
 - BOTTOM OF BANK
 - TOP OF BANK
 - LIMITS OF CONSERVATION EASEMENT
 - LOG RAMP
 - LOG GRADE CONTROL
 - LOG TOE PROTECTION
 - LOG VANE
 - FORD CROSSING
 - ROOT WAD
 - CHANNEL PLUG
 - WETLAND CHANNEL PLUG
 - EXISTING WETLANDS
 - BEDDED LOG STRUCTURE
 - SMALL WOODY DEBRIS



Horizontal Scale: 1 inch = 30ft.
Vertical Scale: 1 inch = 3ft.

REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER
 DPI
 DRAWN BY
 JLL
 APPROVED BY
 DPI
 FILE NAME
 design.dwg



720 CORPORATE CENTER DRIVE
 RALEIGH, NC 27607
 (919) 782-0495
 Office Locations:
 North Carolina Georgia
 South Carolina

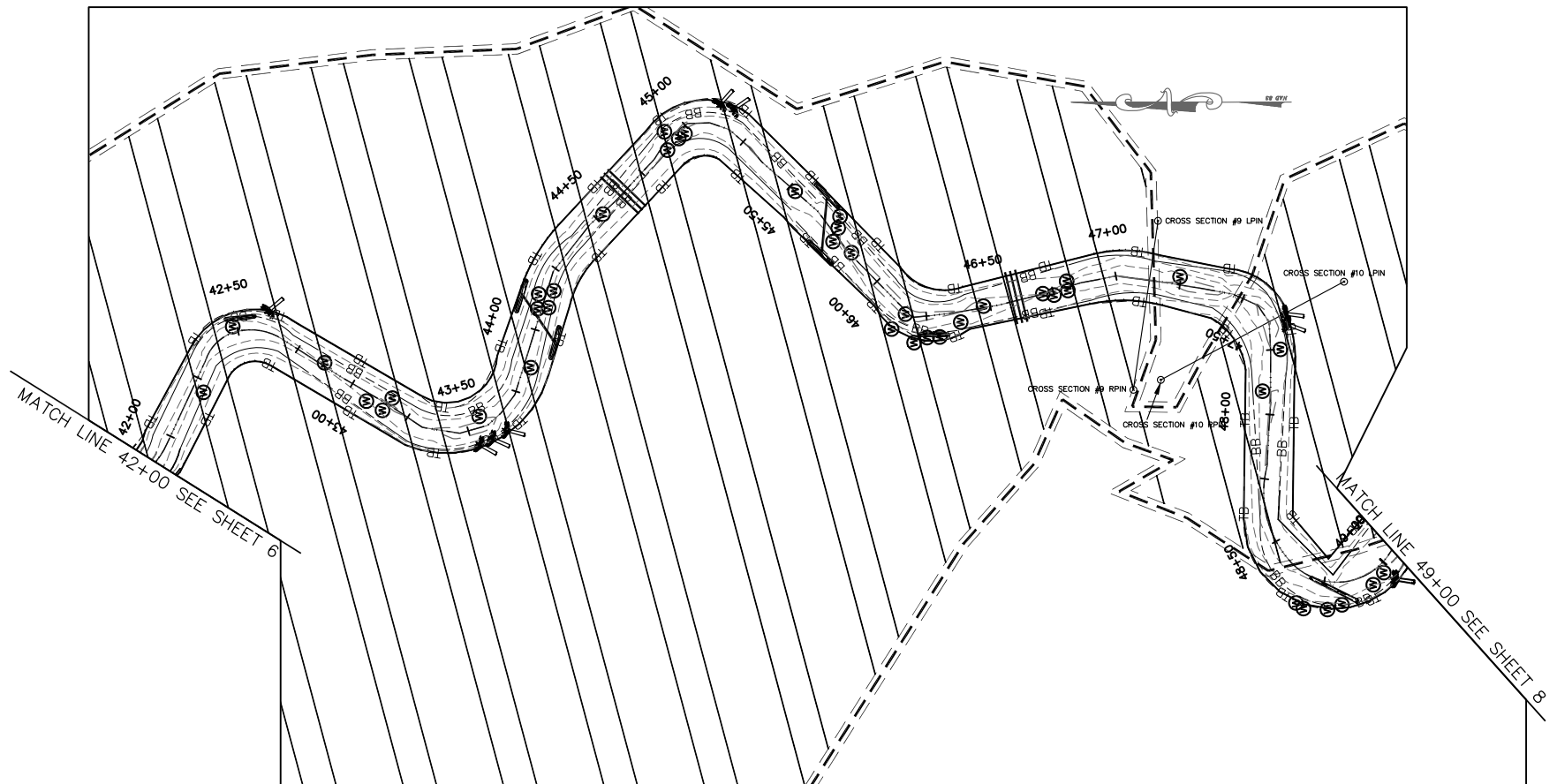
RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	



ENVIRONMENTAL BANC & EXCHANGE, LLC
 FLOOGIE MITIGATION PROJECT
 BERTIE COUNTY, NORTH CAROLINA

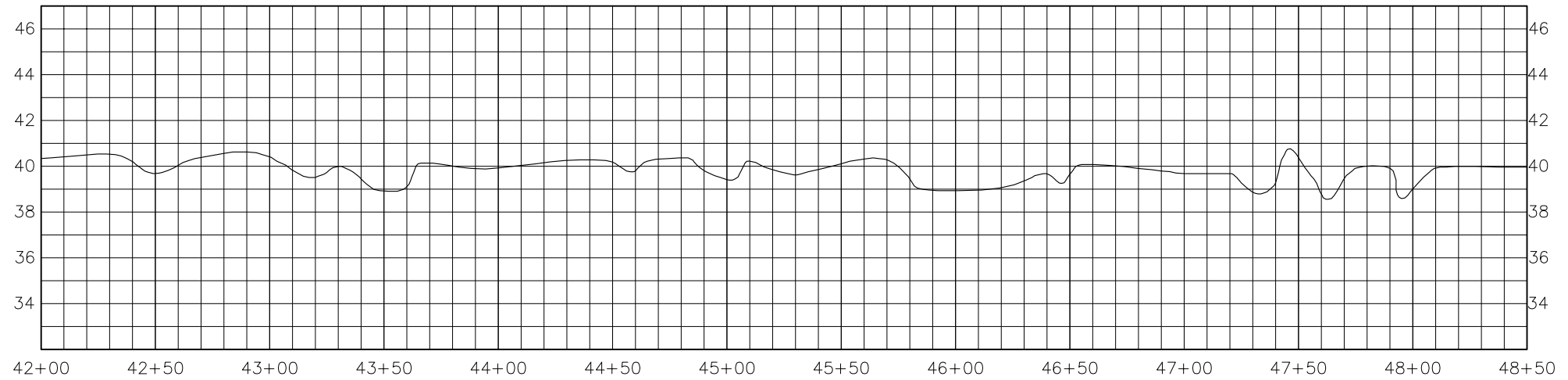
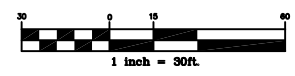
FLOOGIE AS-BUILT PLANS
 STA. 35+35 TO STA. 42+00

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LEGEND

EXISTING CONTOURS	---
CENTERLINE OF EXISTING DITCH	---
BOTTOM OF BANK	BB ---
TOP OF BANK	TB ---
LIMITS OF CONSERVATION EASMENT	LCE ---
LOG RAMP	
LOG GRADE CONTROL	
LOG TOE PROTECTION	
LOG VANE	
FORD CROSSING	
ROOT WAD	
CHANNEL PLUG	
WETLAND CHANNEL PLUG	
EXISTING WETLANDS	
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SMALL WOODY DEBRIS	



Horizontal Scale: 1 inch = 30ft.
 Vertical Scale: 1 inch = 3ft.

REV. NO.	DESCRIPTION	DATE

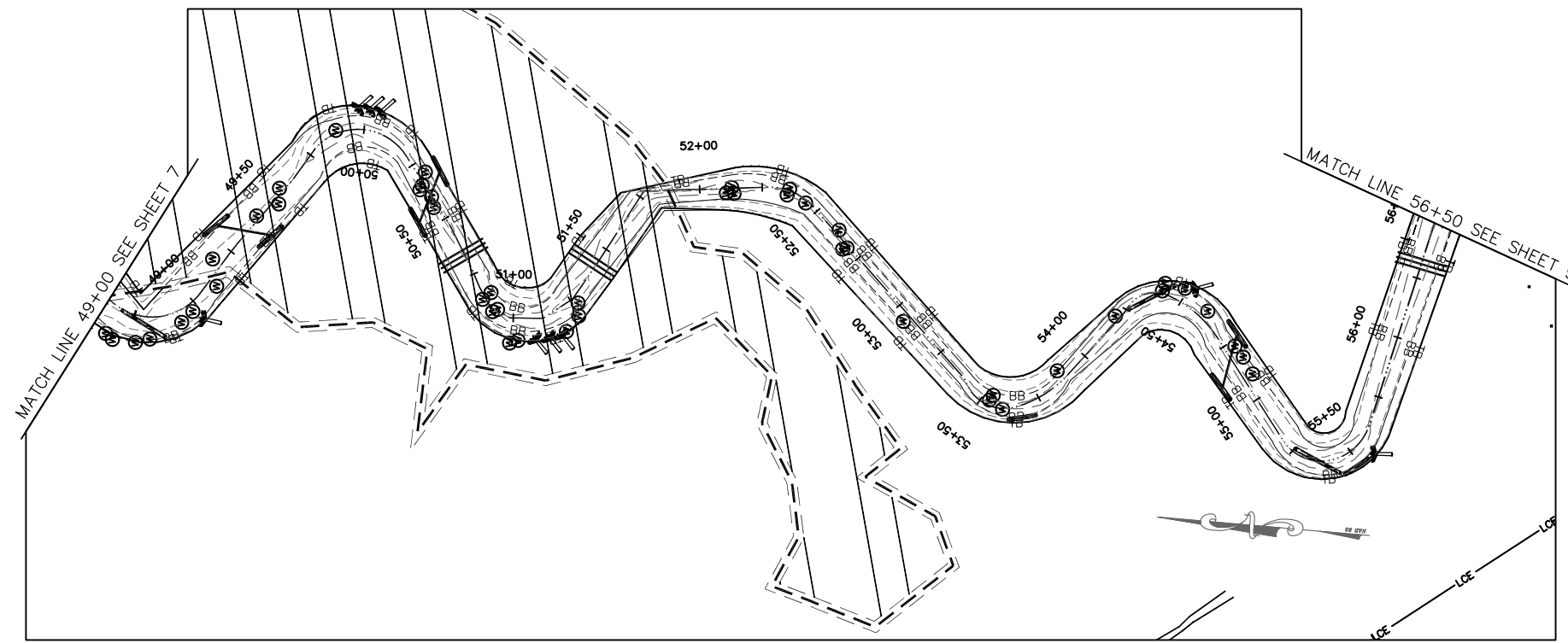
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 FLOOGIE MITIGATION PROJECT
 BERTIE COUNTY, NORTH CAROLINA

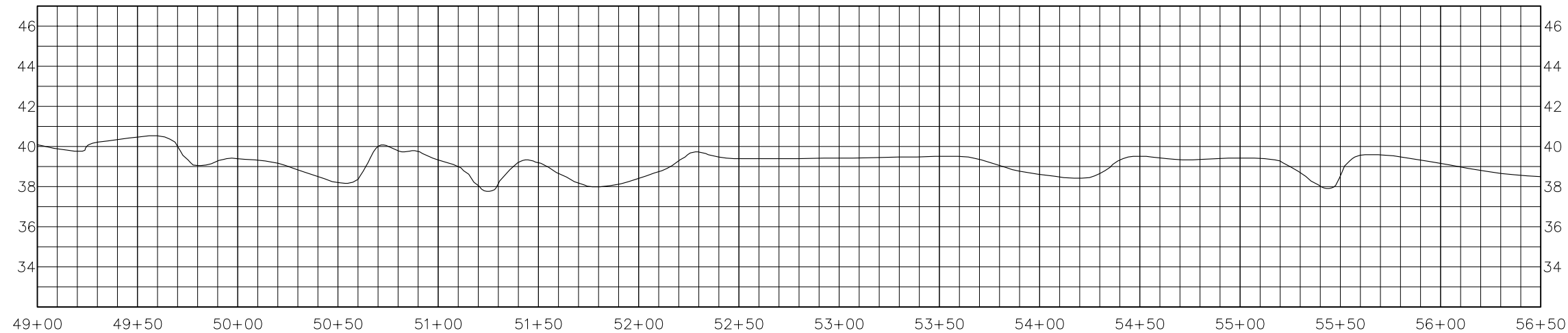
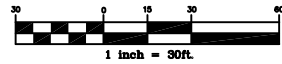
FLOOGIE AS-BUILT PLANS
 STA. 42+00 TO STA. 49+00

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LEGEND

EXISTING CONTOURS	---
CENTERLINE OF EXISTING DITCH	---
BOTTOM OF BANK	BB ---
TOP OF BANK	TB ---
LIMITS OF CONSERVATION EASEMENT	LCE ---
LOG RAMP	
LOG GRADE CONTROL	
LOG TOE PROTECTION	
LOG VANE	
FORD CROSSING	
ROOT WAD	
CHANNEL PLUG	
WETLAND CHANNEL PLUG	
EXISTING WETLANDS	
BEDDED LOG STRUCTURE	
SMALL WOODY DEBRIS	



Horizontal Scale: 1 inch = 30ft.
 Vertical Scale: 1 inch = 3ft.

REV. NO.	DESCRIPTION	DATE

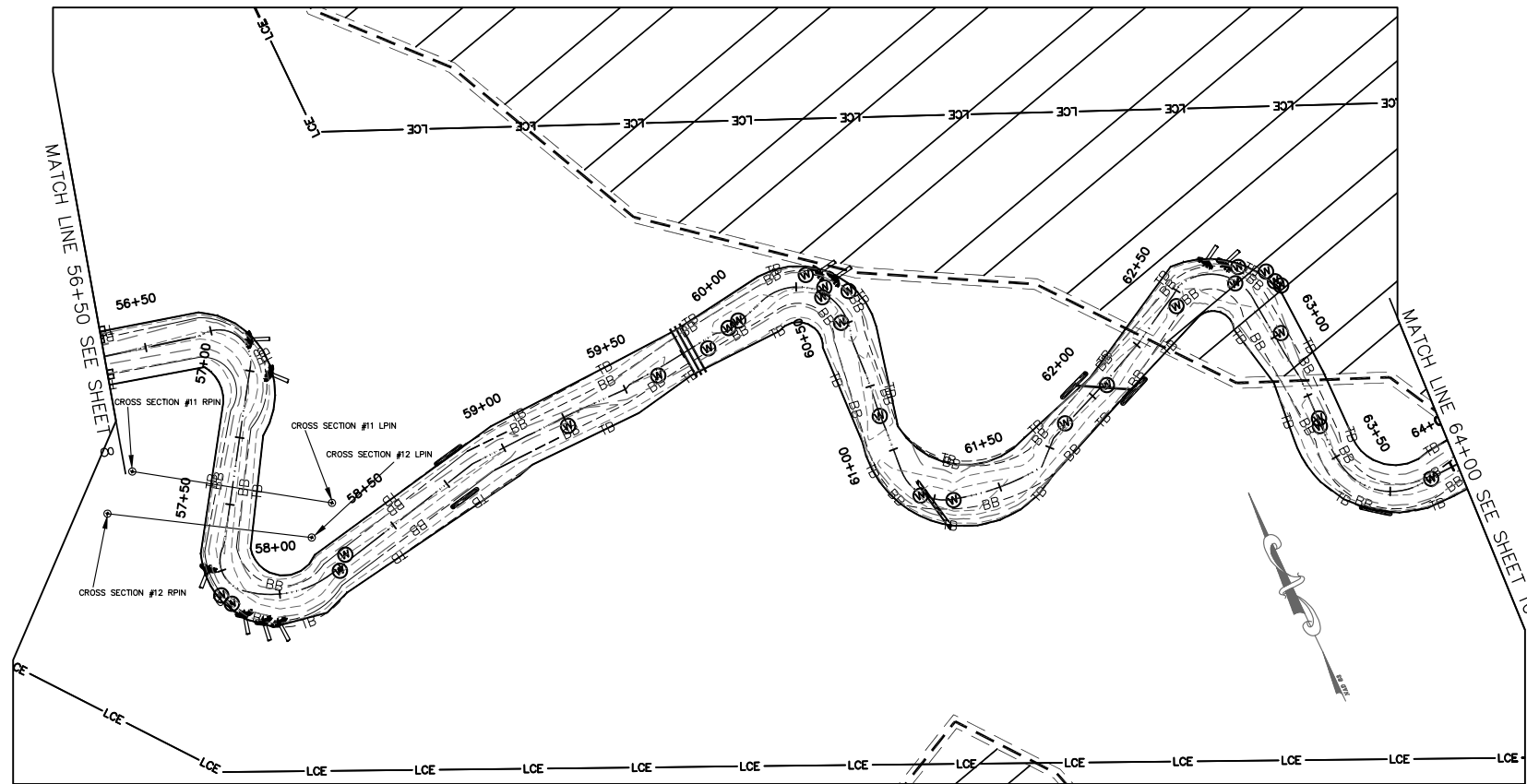
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DRAWN BY JLL	PROJECT DATE 08/2007		BIDDING	
APPROVED BY DPI	PROJECT NUMBER 5043100RA		CONSTRUCTION	
FILE NAME design.dwg	PLOT DATE 03/28/08		RECORD DWG.	



ENVIRONMENTAL BANC & EXCHANGE, LLC
 FLOOGIE MITIGATION PROJECT
 BERTIE COUNTY, NORTH CAROLINA

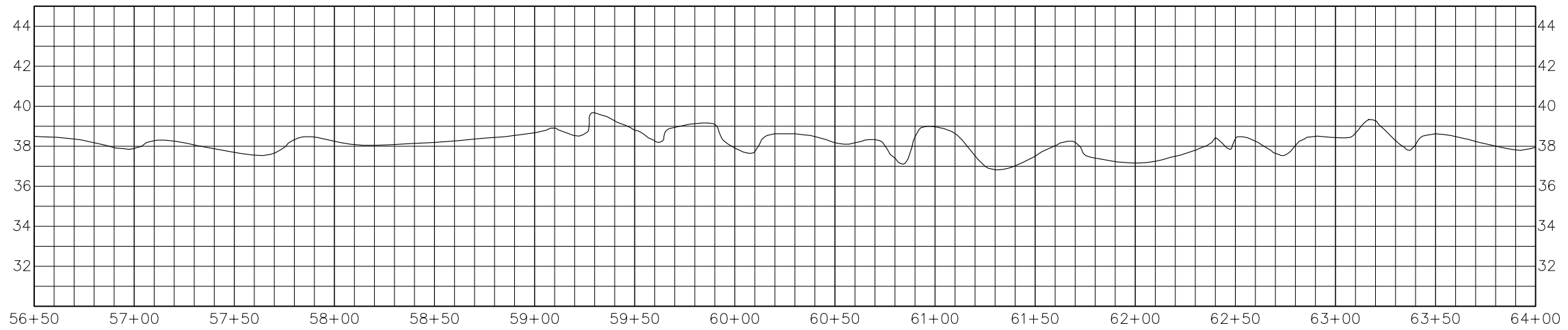
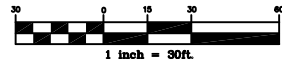
FLOOGIE AS-BUILT PLANS
 STA. 49+00 TO STA. 56+50

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LEGEND

EXISTING CONTOURS	---
CENTERLINE OF EXISTING DITCH	---
BOTTOM OF BANK	BB ---
TOP OF BANK	TB ---
LIMITS OF CONSERVATION EASMENT	LCE ---
LOG RAMP	
LOG GRADE CONTROL	
LOG TOE PROTECTION	
LOG VANE	
FORD CROSSING	
ROOT WAD	
CHANNEL PLUG	
WETLAND CHANNEL PLUG	
EXISTING WETLANDS	
BEDDED LOG STRUCTURE	
SMALL WOODY DEBRIS	



Horizontal Scale: 1 inch = 30ft.
Vertical Scale: 1 inch = 3ft.

REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER DPI	DRAWING SCALE 1" = 30'
DRAWN BY JLL	PROJECT DATE 08/2007
APPROVED BY DPI	PROJECT NUMBER 5043100RA
FILE NAME design.dwg	PLOT DATE 03/28/08



720 CORPORATE CENTER DRIVE
RALEIGH, NC 27607
(919) 782-0495

Office Locations:
North Carolina Georgia
South Carolina

RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	

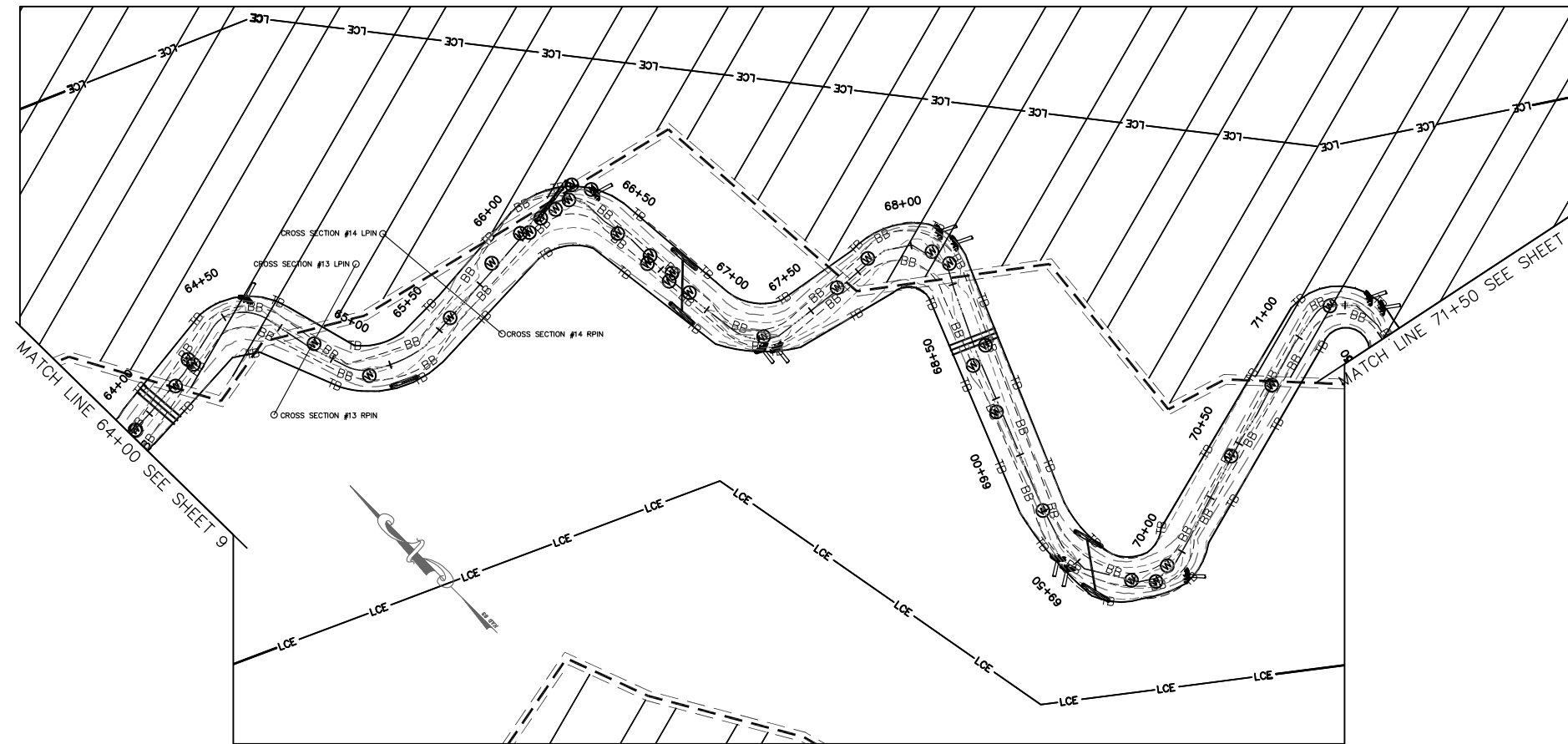


ENVIRONMENTAL BANC & EXCHANGE, LLC
FLOOGIE MITIGATION PROJECT
BERTIE COUNTY, NORTH CAROLINA

FLOOGIE AS-BUILT PLANS
STA. 56+50 TO STA. 64+00

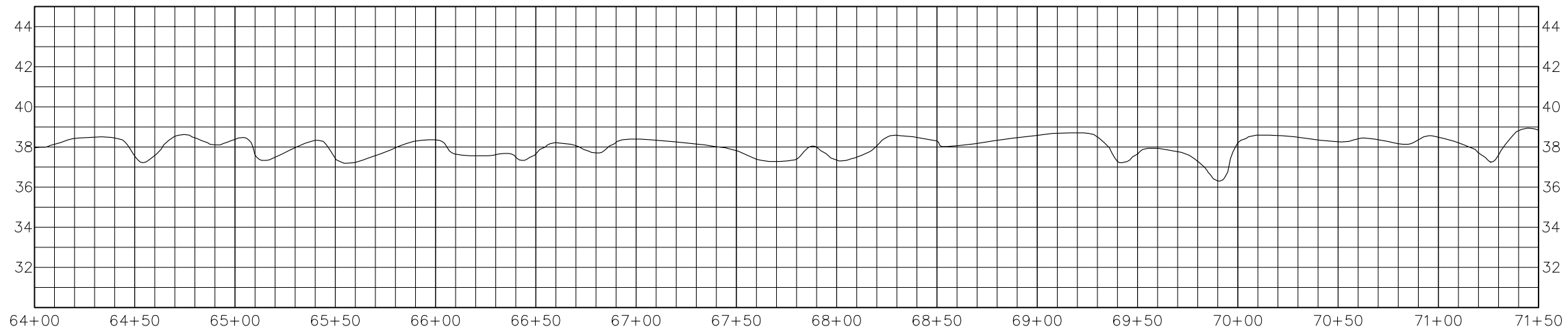
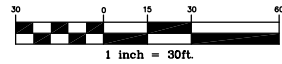
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LEGEND

EXISTING CONTOURS	---
CENTERLINE OF EXISTING DITCH	- - - -
BOTTOM OF BANK	--- BB ---
TOP OF BANK	--- TB ---
LIMITS OF CONSERVATION EASMENT	— LCE —
LOG RAMP	
LOG GRADE CONTROL	
LOG TOE PROTECTION	
LOG VANE	
FORD CROSSING	
ROOT WAD	
CHANNEL PLUG	
WETLAND CHANNEL PLUG	
EXISTING WETLANDS	
BEDDED LOG STRUCTURE	
SMALL WOODY DEBRIS	



Horizontal Scale: 1 inch = 30ft.
Vertical Scale: 1 inch = 3ft.

REV. NO.	DESCRIPTION	DATE

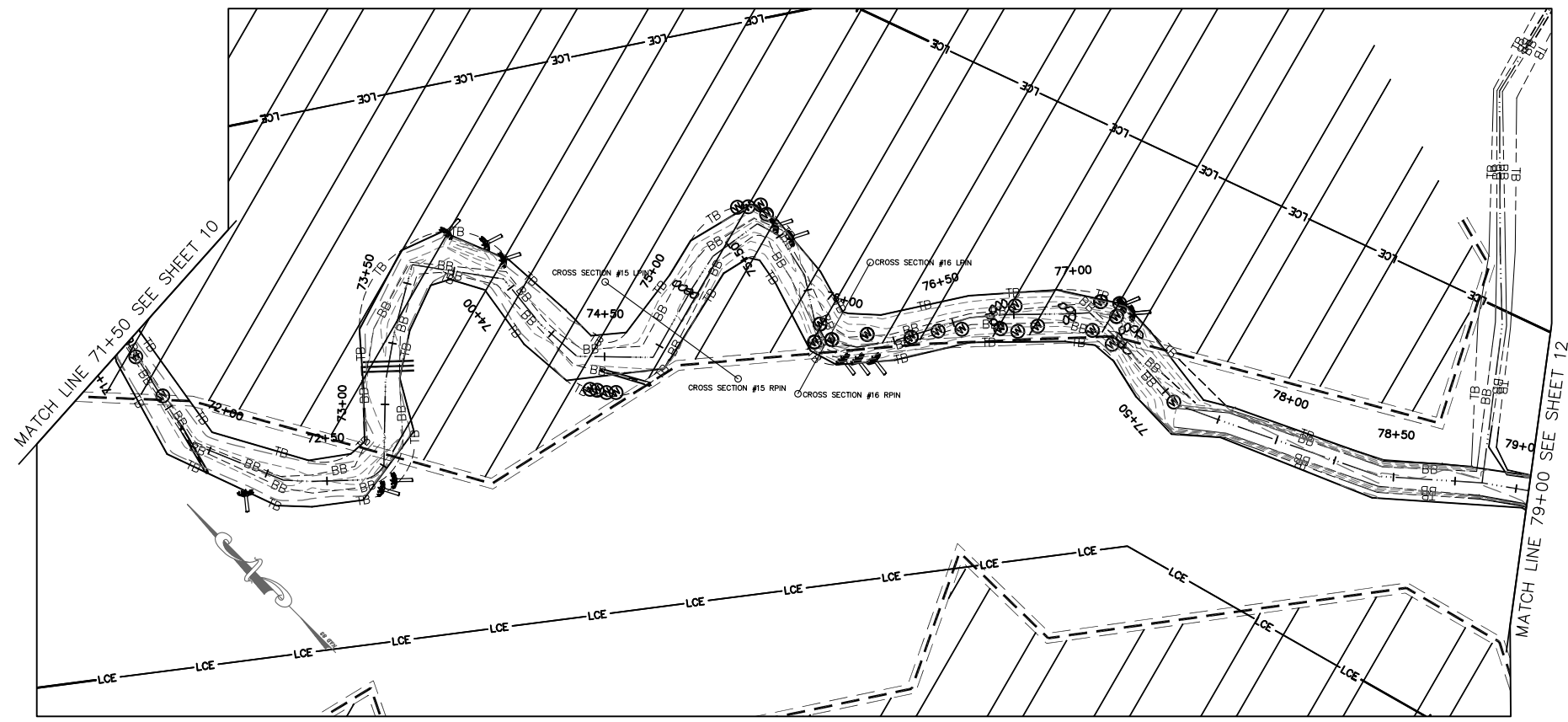
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DRAWN BY JLL	PROJECT DATE 08/2007		BIDDING	
APPROVED BY DPI	PROJECT NUMBER 5043100RA		CONSTRUCTION	
FILE NAME design.dwg	PLOT DATE 03/28/08		RECORD DWG.	



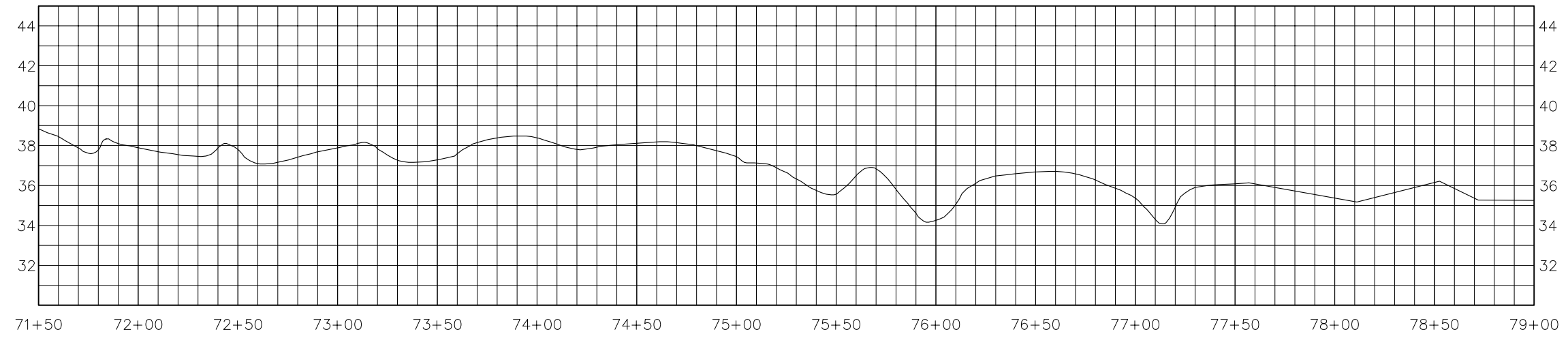
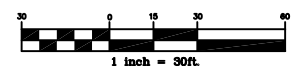
ENVIRONMENTAL BANC & EXCHANGE, LLC
FLOOGIE MITIGATION PROJECT
BERTIE COUNTY, NORTH CAROLINA

FLOOGIE AS-BUILT PLANS
STA. 64+00 TO STA. 71+50

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- LEGEND**
- EXISTING CONTOURS
 - CENTERLINE OF EXISTING DITCH
 - BOTTOM OF BANK
 - TOP OF BANK
 - LIMITS OF CONSERVATION EASMENT
 - LOG RAMP
 - LOG GRADE CONTROL
 - LOG TOE PROTECTION
 - LOG VANE
 - FORD CROSSING
 - ROOT WAD
 - CHANNEL PLUG
 - WETLAND CHANNEL PLUG
 - EXISTING WETLANDS
 - BEDDED LOG STRUCTURE
 - SMALL WOODY DEBRIS



Horizontal Scale: 1 inch = 30ft.
 Vertical Scale: 1 inch = 3ft.

REV. NO.	DESCRIPTION	DATE

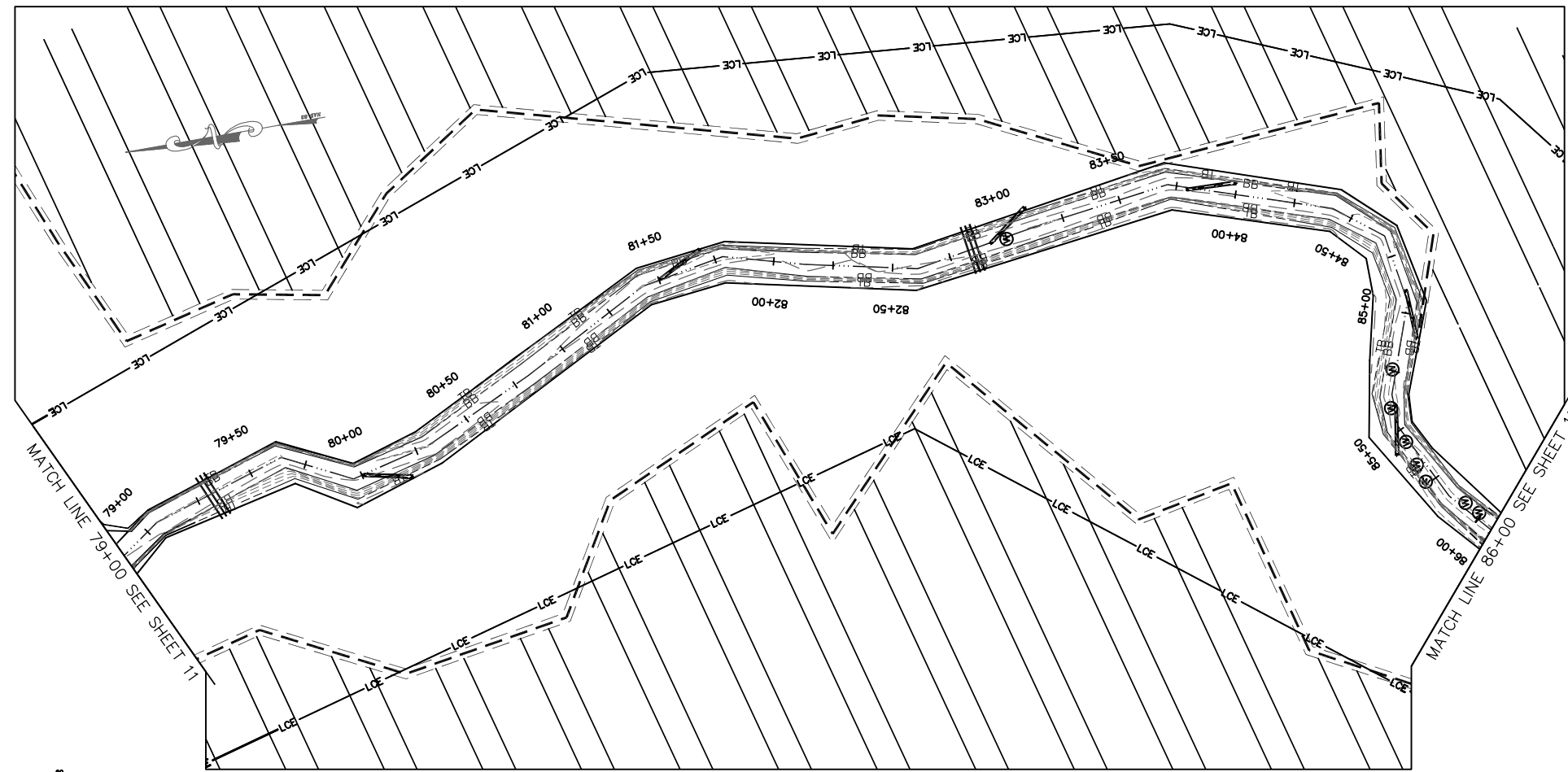
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ENVIRONMENTAL BANC & EXCHANGE, LLC
 FLOOGIE MITIGATION PROJECT
 BERTIE COUNTY, NORTH CAROLINA

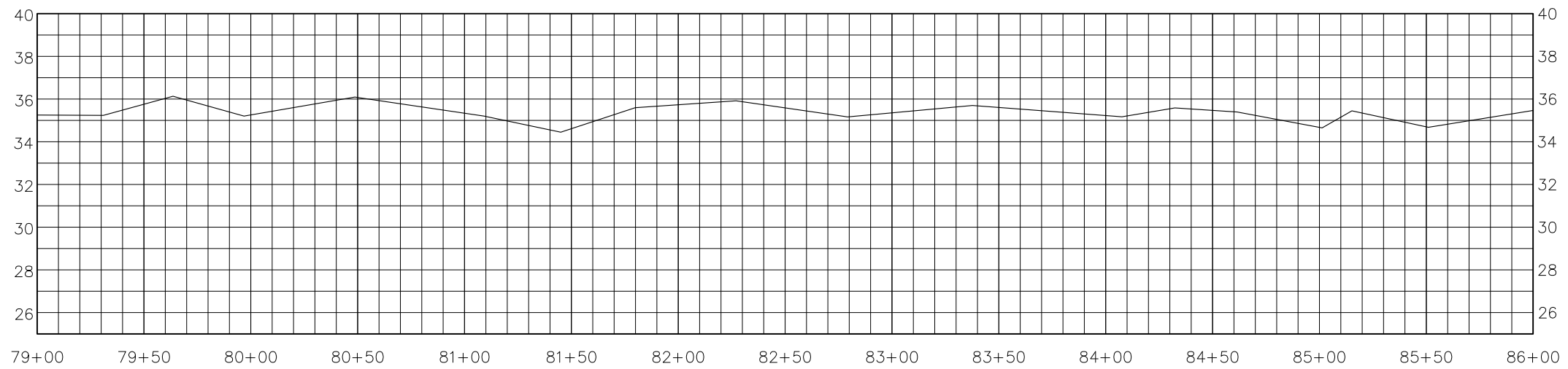
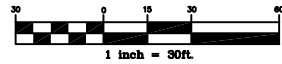
FLOOGIE AS-BUILT PLANS
 STA. 71+50 TO STA. 79+00

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LEGEND

EXISTING CONTOURS	---
CENTERLINE OF EXISTING DITCH	---
BOTTOM OF BANK	--- BB ---
TOP OF BANK	--- TB ---
LIMITS OF CONSERVATION EASEMENT	--- LCE ---
LOG RAMP	
LOG GRADE CONTROL	
LOG TOE PROTECTION	
LOG VANE	
FORD CROSSING	
ROOT WAD	
CHANNEL PLUG	
WETLAND CHANNEL PLUG	
EXISTING WETLANDS	
BEDDED LOG STRUCTURE	
SMALL WOODY DEBRIS	



Horizontal Scale: 1 inch = 30ft.
Vertical Scale: 1 inch = 3ft.

REV. NO.	DESCRIPTION	DATE

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 APPROVED BY: DPI
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 DRAWING SCALE: 1" = 30'
 PROJECT DATE: 08/2007
 PROJECT NUMBER: 50431000A
 PLOT DATE: 03/28/08



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 RALEIGH, NC 27607
 (919) 782-0495
 Office Locations: North Carolina, Georgia, South Carolina

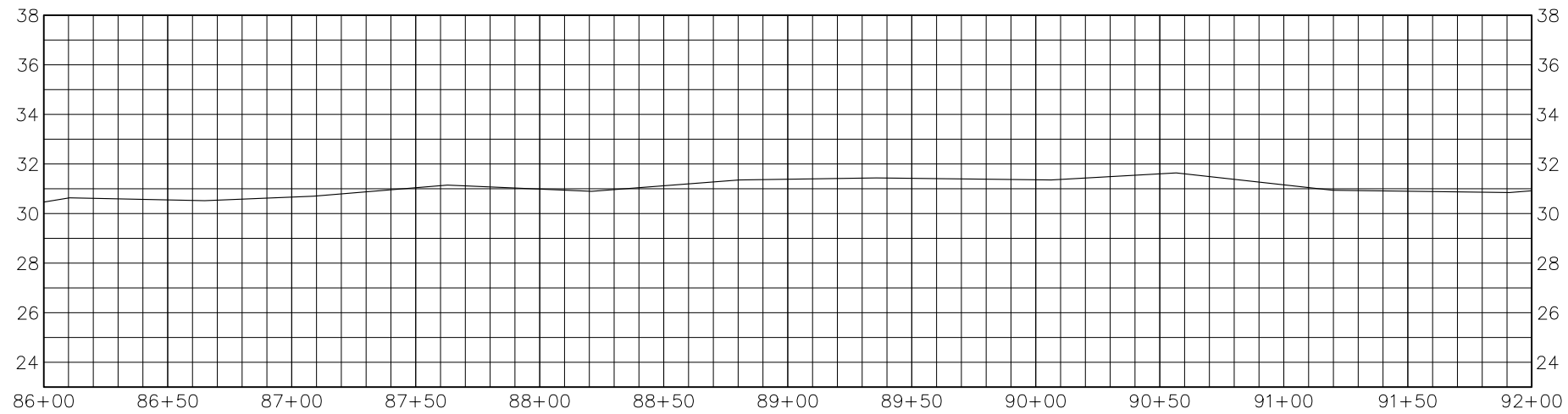
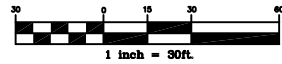
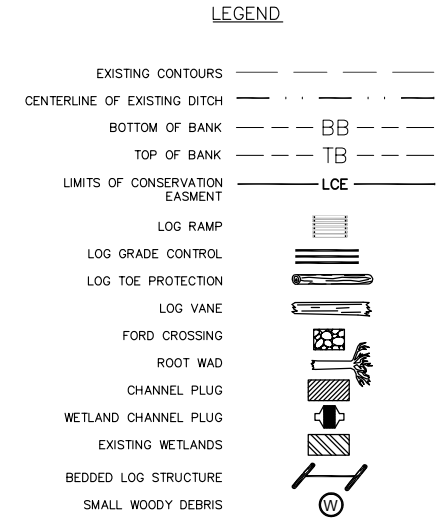
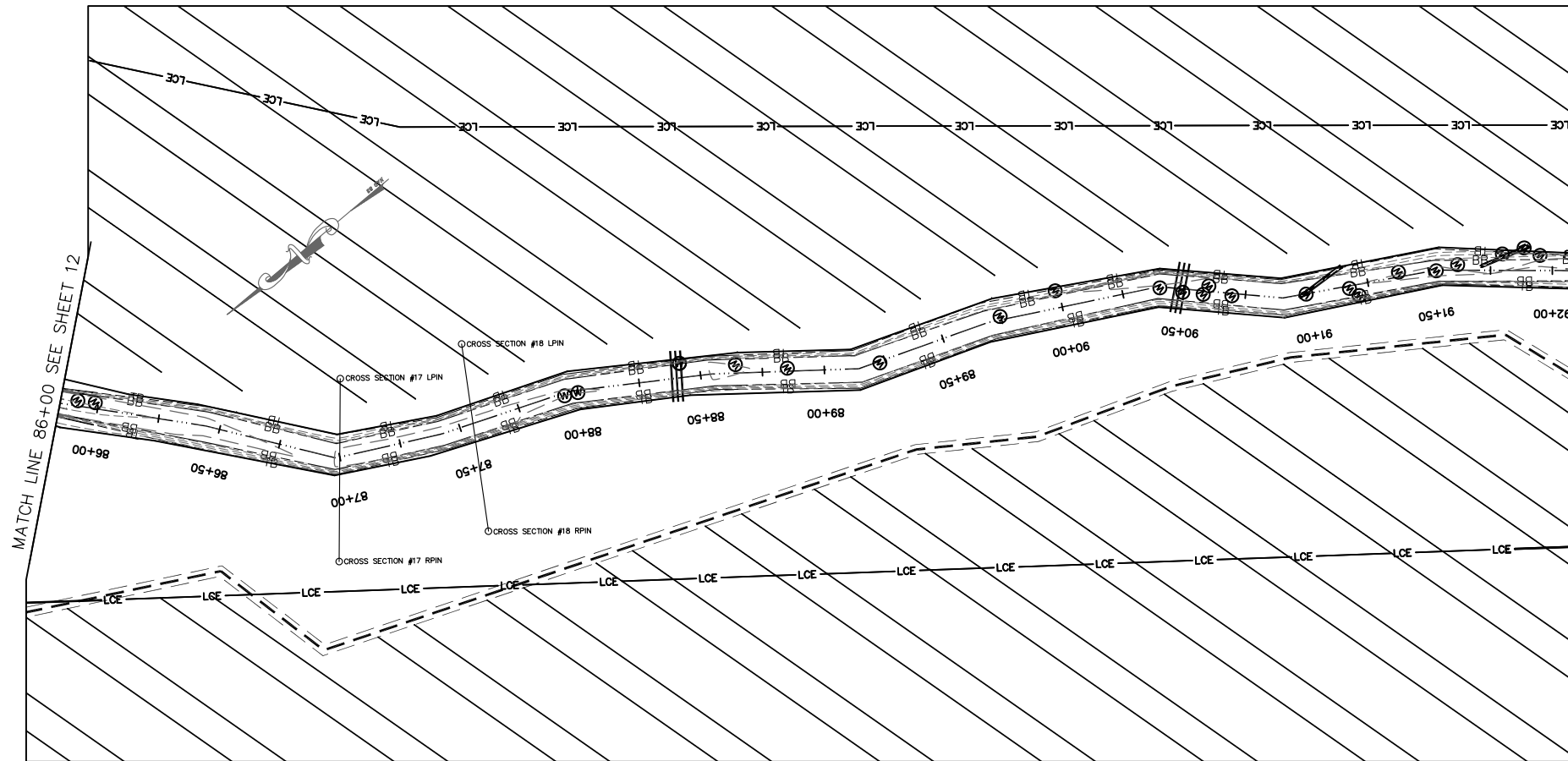
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APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	



ENVIRONMENTAL BANC & EXCHANGE, LLC
 FLOOGIE MITIGATION PROJECT
 BERTIE COUNTY, NORTH CAROLINA

FLOOGIE AS-BUILT PLANS
 STA. 79+00 TO STA. 86+00

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Vertical Scale: 1 inch = 3ft.

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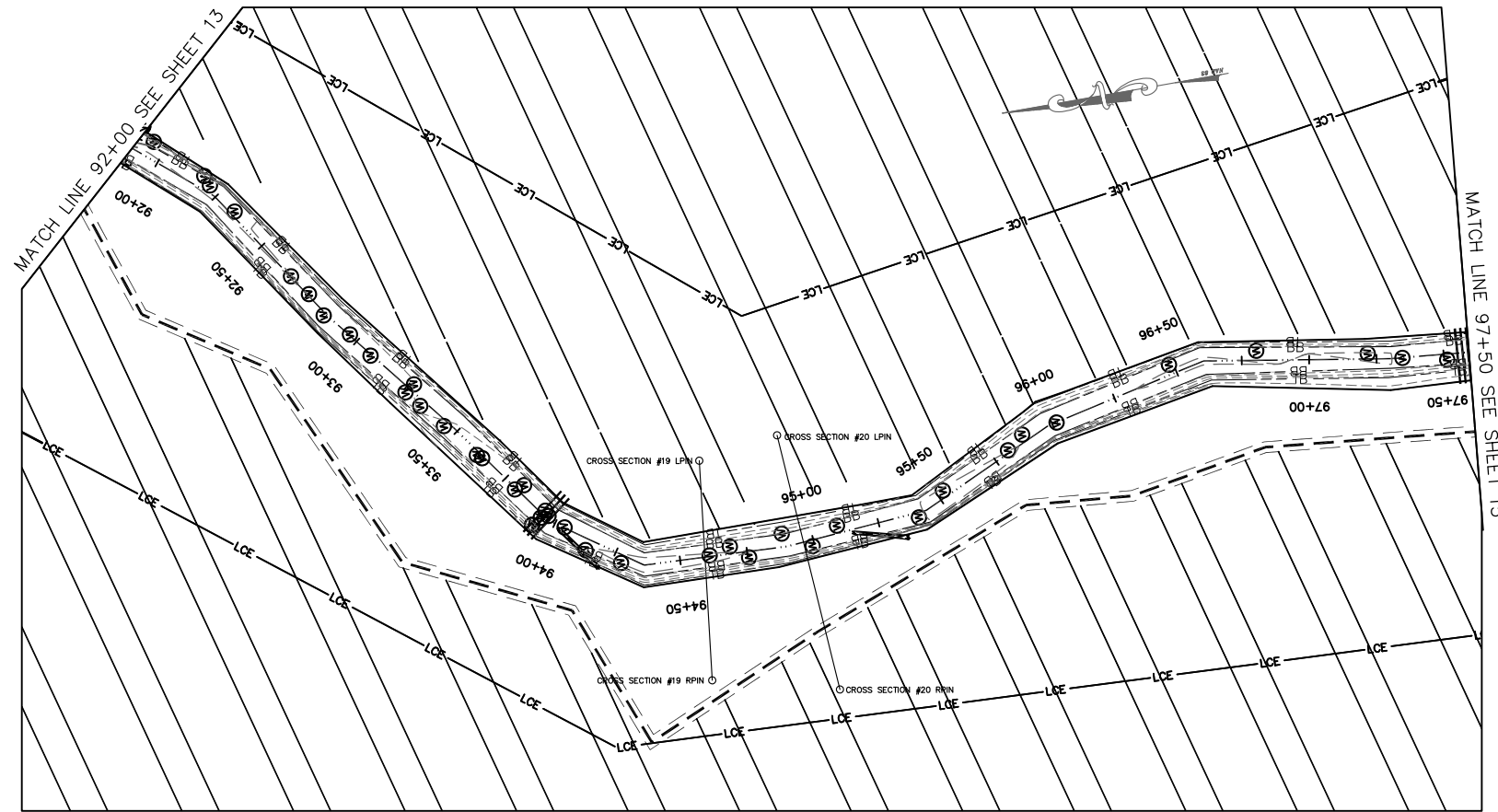
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DRAWN BY JLL	PROJECT DATE 08/2007		APPROVALS	
APPROVED BY DPI	PROJECT NUMBER 5043100RA		BIDDING	
FILE NAME design.dwg	PLLOT DATE 03/28/08		CONSTRUCTION	
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ENVIRONMENTAL BANC & EXCHANGE, LLC
FLOOGIE MITIGATION PROJECT
BERTIE COUNTY, NORTH CAROLINA

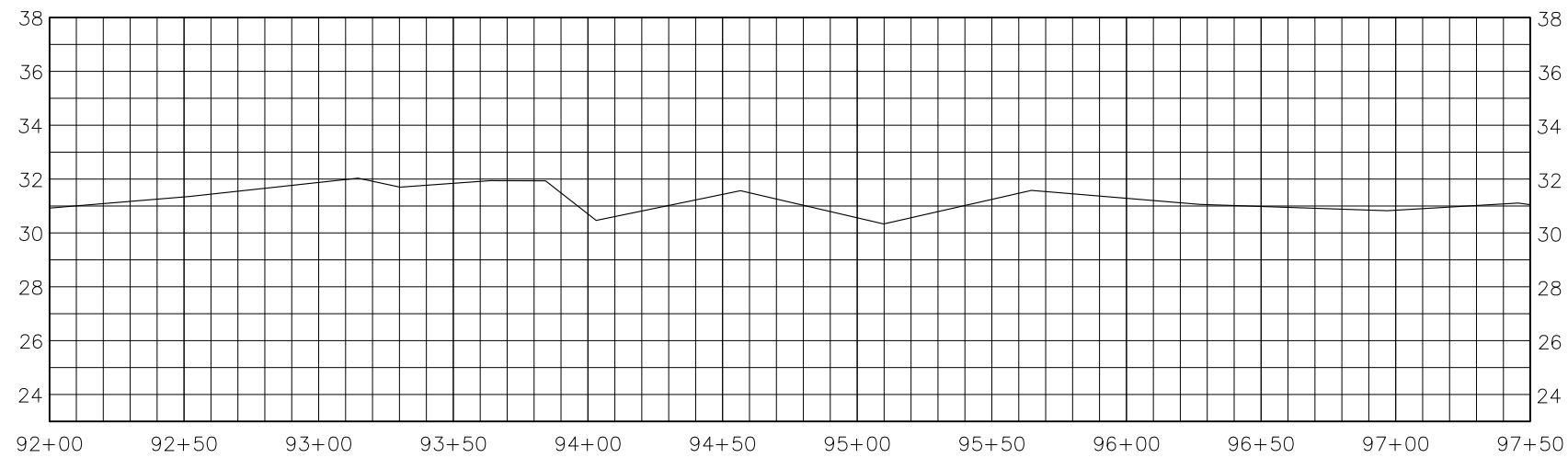
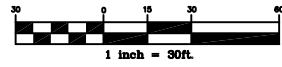
FLOOGIE AS-BUILT PLANS
STA. 86+00 TO STA. 92+00

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LEGEND

EXISTING CONTOURS	---
CENTERLINE OF EXISTING DITCH	---
BOTTOM OF BANK	BB ---
TOP OF BANK	TB ---
LIMITS OF CONSERVATION EASEMENT	LCE ---
LOG RAMP	
LOG GRADE CONTROL	
LOG TOE PROTECTION	
LOG VANE	
FORD CROSSING	
ROOT WAD	
CHANNEL PLUG	
WETLAND CHANNEL PLUG	
EXISTING WETLANDS	
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SMALL WOODY DEBRIS	



Horizontal Scale: 1 inch = 30ft.
 Vertical Scale: 1 inch = 3ft.

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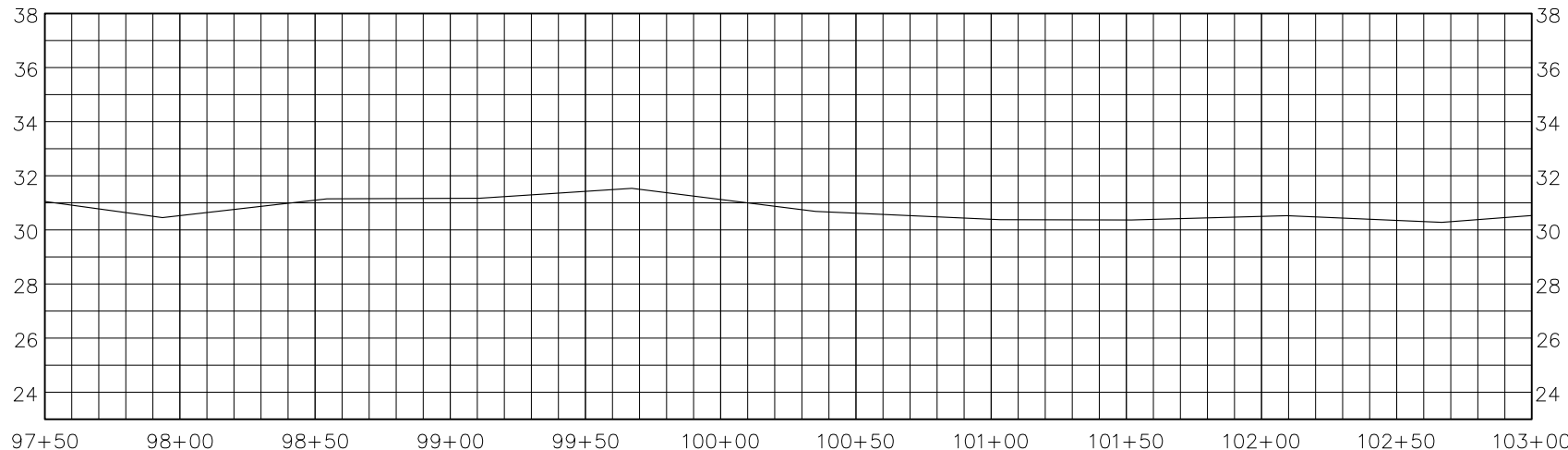
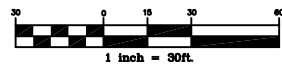
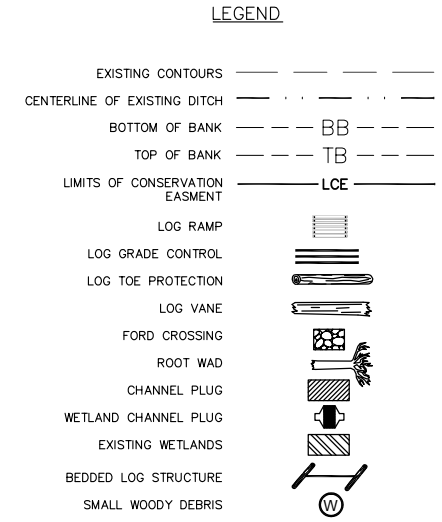
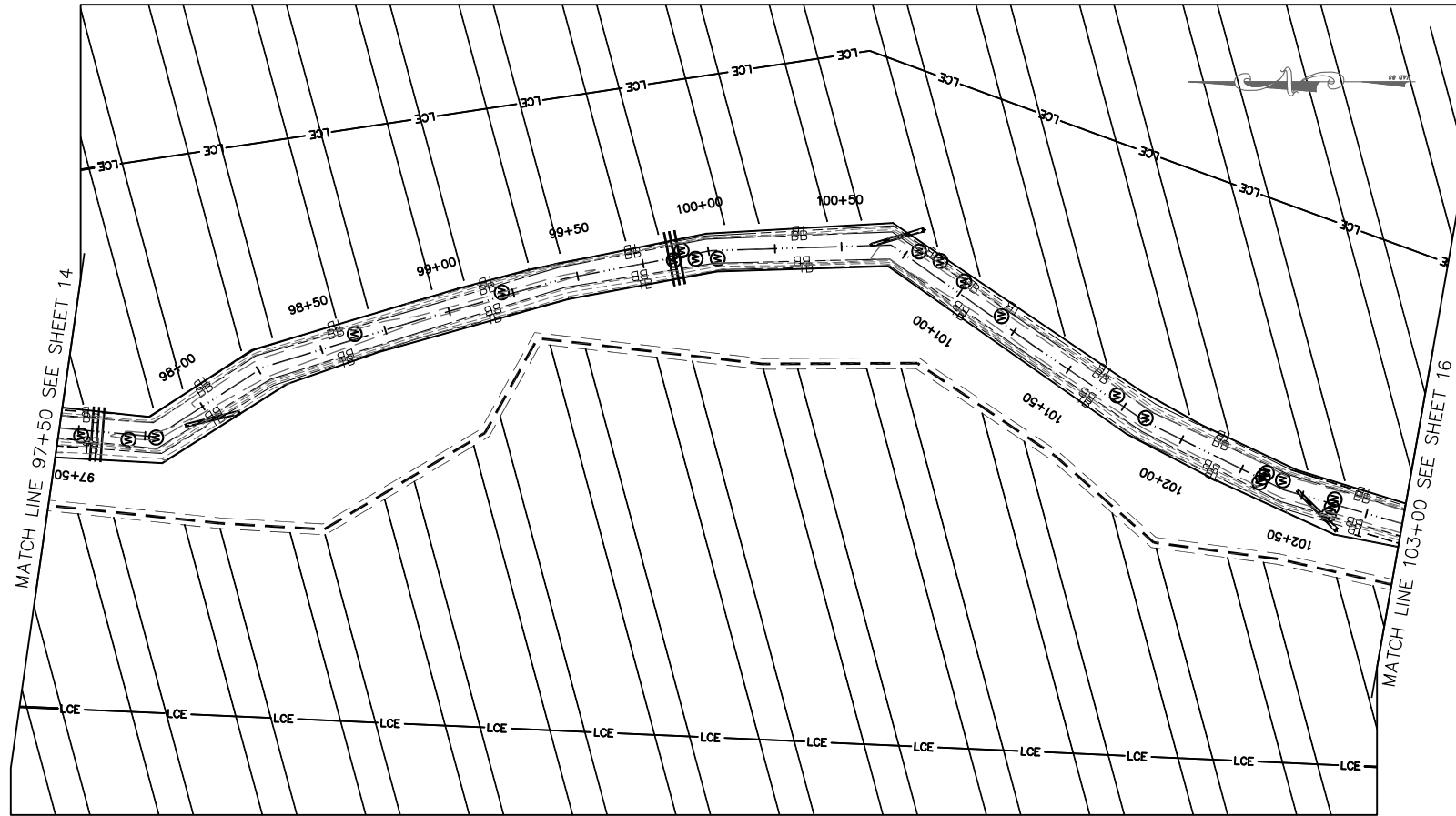
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ENVIRONMENTAL BANC & EXCHANGE, LLC
 FLOOGIE MITIGATION PROJECT
 BERTIE COUNTY, NORTH CAROLINA

FLOOGIE AS-BUILT PLANS
 STA. 92+00 TO STA. 97+50

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Horizontal Scale: 1 inch = 30ft.
Vertical Scale: 1 inch = 3ft.

REV. NO.	DESCRIPTION	DATE

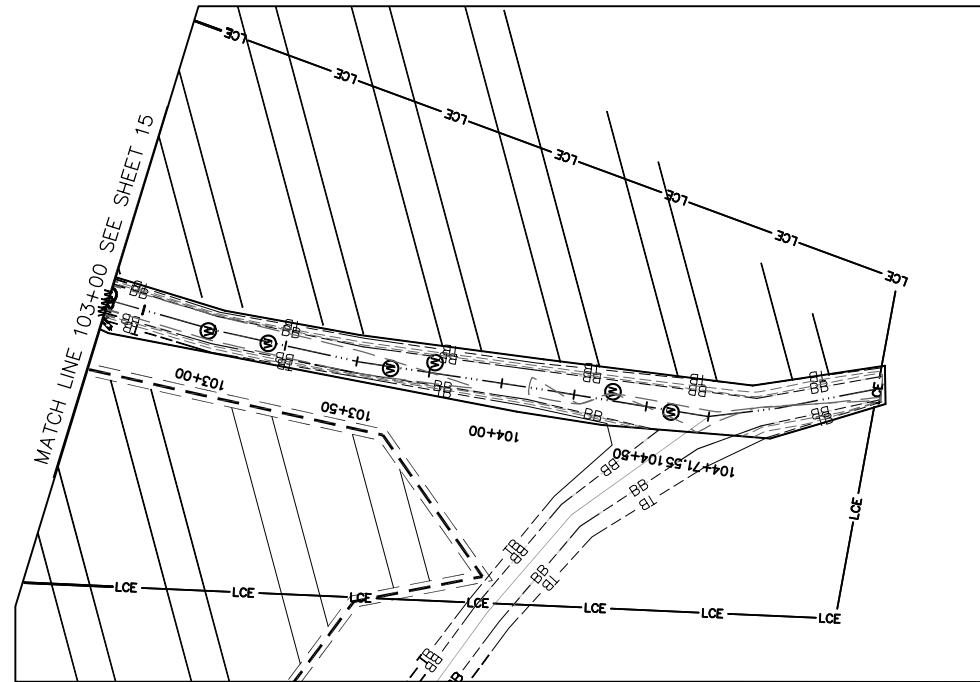
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DRAWN BY JLL	PROJECT DATE 08/2007		BIDDING	
APPROVED BY DPI	PROJECT NUMBER 5043100RA		CONSTRUCTION	
FILE NAME design.dwg	PLOT DATE 03/28/08		RECORD DWG.	



ENVIRONMENTAL BANC & EXCHANGE, LLC
FLOOGIE MITIGATION PROJECT
BERTIE COUNTY, NORTH CAROLINA

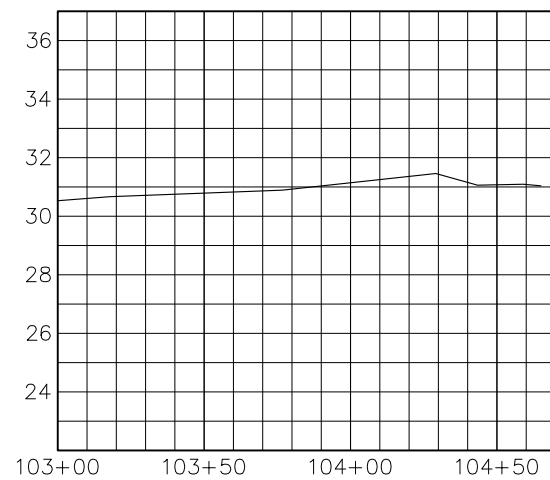
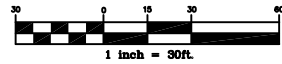
FLOOGIE AS-BUILT PLANS
STA. 97+50 TO STA. 103+00

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LEGEND

EXISTING CONTOURS	---
CENTERLINE OF EXISTING DITCH
BOTTOM OF BANK	--- BB ---
TOP OF BANK	--- TB ---
LIMITS OF CONSERVATION EASEMENT	--- LCE ---
LOG RAMP	
LOG GRADE CONTROL	
LOG TOE PROTECTION	
LOG VANE	
FORD CROSSING	
ROOT WAD	
CHANNEL PLUG	
WETLAND CHANNEL PLUG	
EXISTING WETLANDS	
BEDDED LOG STRUCTURE	
SMALL WOODY DEBRIS	



Horizontal Scale: 1 inch = 30ft.
 Vertical Scale: 1 inch = 3ft.

REV. NO.	DESCRIPTION	DATE

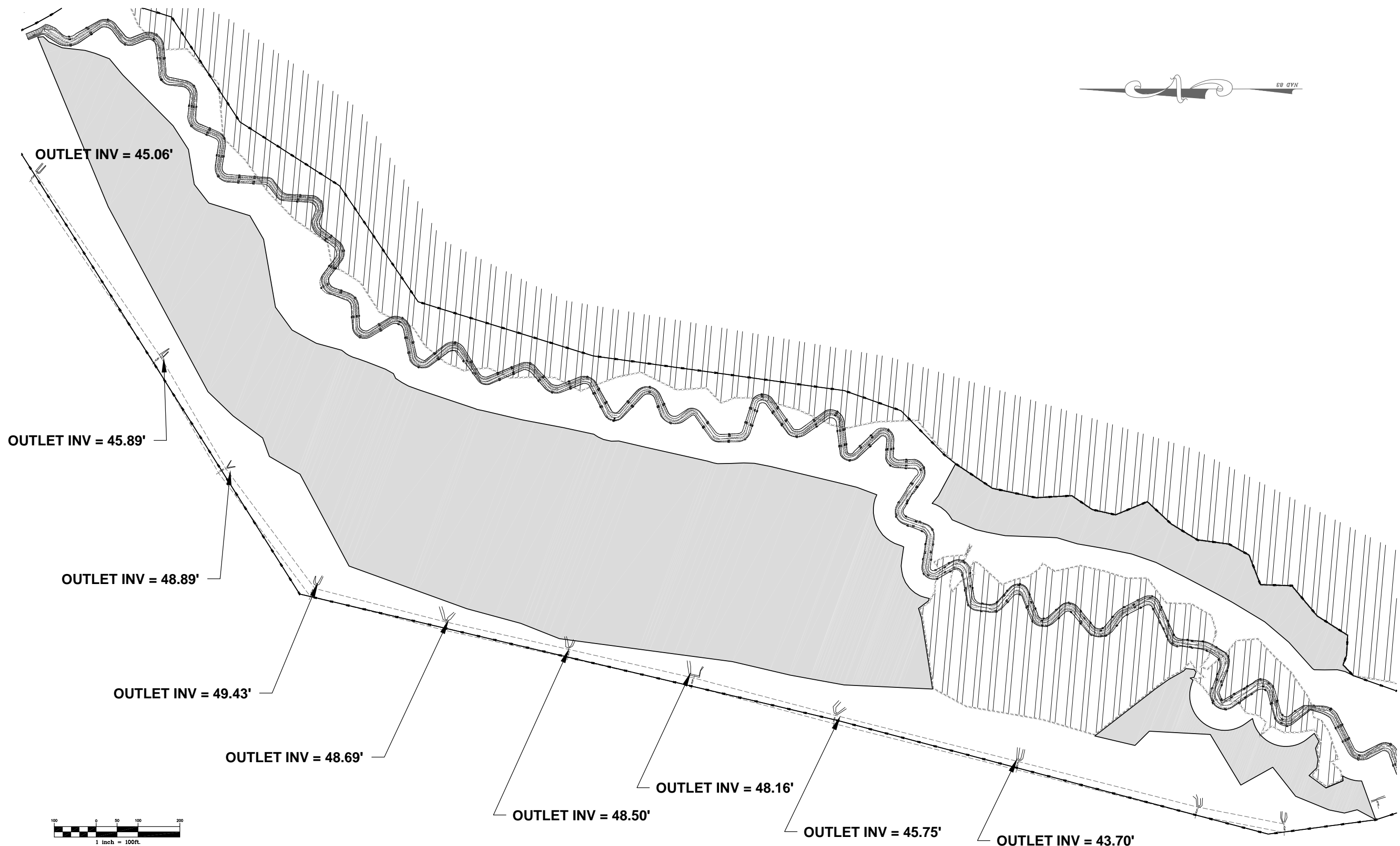
PROJECT MANAGER DPI	DRAWING SCALE 1" = 30'	 720 CORPORATE CENTER DRIVE RALEIGH, NC 27607 (919) 782-0495 Office Locations: North Carolina Georgia South Carolina	RELEASED FOR APPROVALS	DATE
DRAWN BY JLL	PROJECT DATE 08/2007		BIDDING	
APPROVED BY DPI	PROJECT NUMBER 5043100RA		CONSTRUCTION	
FILE NAME design.dwg	PLOT DATE 03/28/08		RECORD DWG.	



ENVIRONMENTAL BANC & EXCHANGE, LLC
 FLOOGIE MITIGATION PROJECT
 BERTIE COUNTY, NORTH CAROLINA

FLOOGIE AS-BUILT PLANS
 STA. 103+00 TO STA. 104+71.55

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REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER
 DPI
 DRAWN BY
 JLL
 APPROVED BY
 DPI
 FILE NAME
 design.dwg



720 CORPORATE CENTER DRIVE
 RALEIGH, NC 27607
 (919) 782-0495
 Office Locations:
 North Carolina
 South Carolina
 Georgia

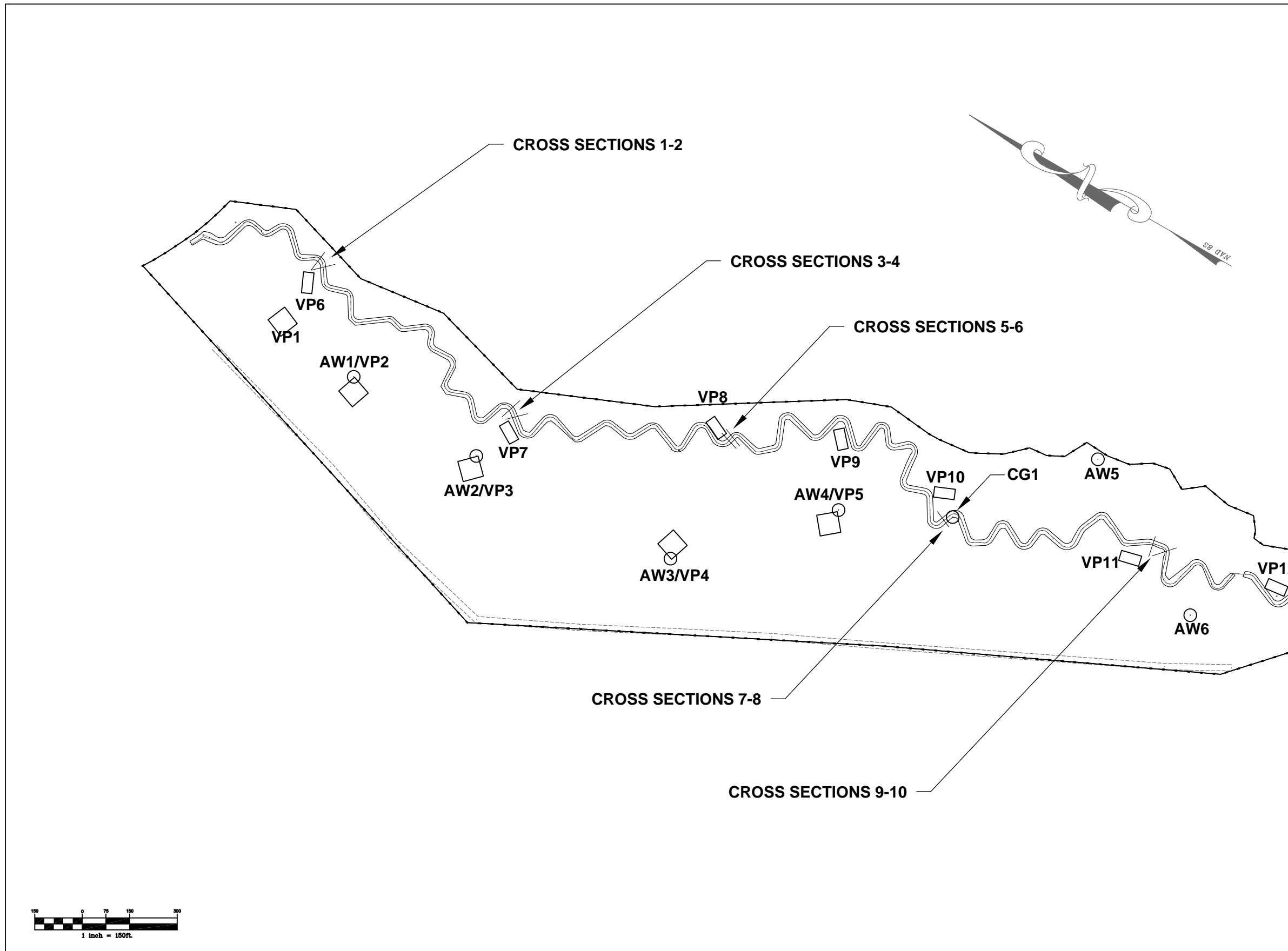
RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	



ENVIRONMENTAL BANC & EXCHANGE, LLC
 FLOOGIE MITIGATION PROJECT
 BERTIE COUNTY, NORTH CAROLINA

FLOOGIE AS-BUILT PLANS
 WETLAND CONDITIONS

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REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER DPI	DRAWING SCALE 1" = 150'
DRAWN BY JLL	PROJECT DATE 08/2007
APPROVED BY DPI	PROJECT NUMBER 5043100RA
FILE NAME design.dwg	PLOT DATE 03/28/08



720 CORPORATE CENTER DRIVE
RALEIGH, NC 27607
(919) 782-0495

Office Locations:
North Carolina
South Carolina
Georgia

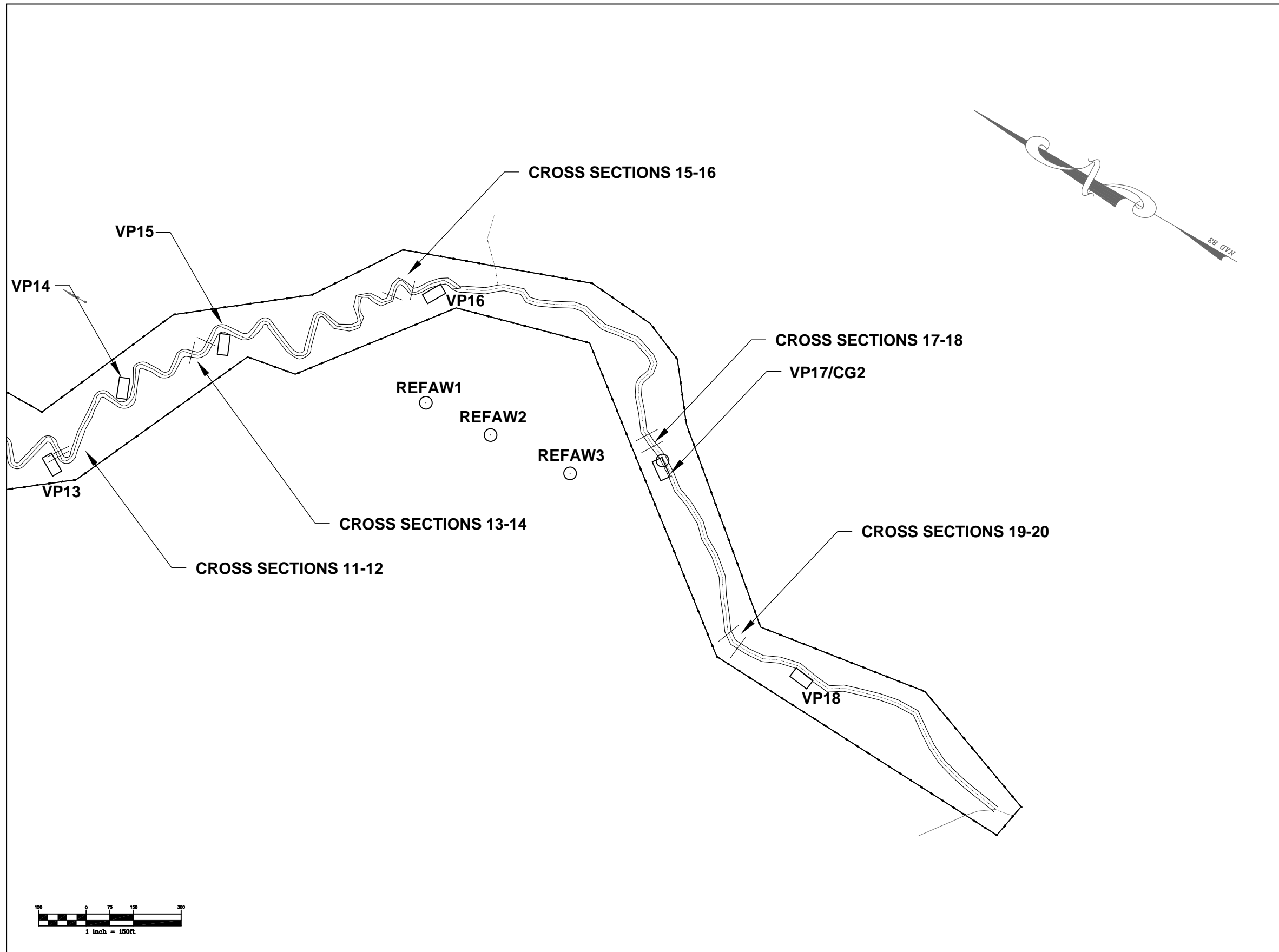
RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	



ENVIRONMENTAL BANC & EXCHANGE, LLC
FLOOGIE MITIGATION PROJECT
BERTIE COUNTY, NORTH CAROLINA

FLOOGIE AS-BUILT PLANS
MONITORING OVERVIEW

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REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER DPI	DRAWING SCALE 1" = 150'
DRAWN BY JLL	PROJECT DATE 08/2007
APPROVED BY DPI	PROJECT NUMBER 5043100RA
FILE NAME design.dwg	PLOT DATE 03/28/08



720 CORPORATE CENTER DRIVE
RALEIGH, NC 27607
(919) 782-0495

Office Locations:
North Carolina Georgia
South Carolina

RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	



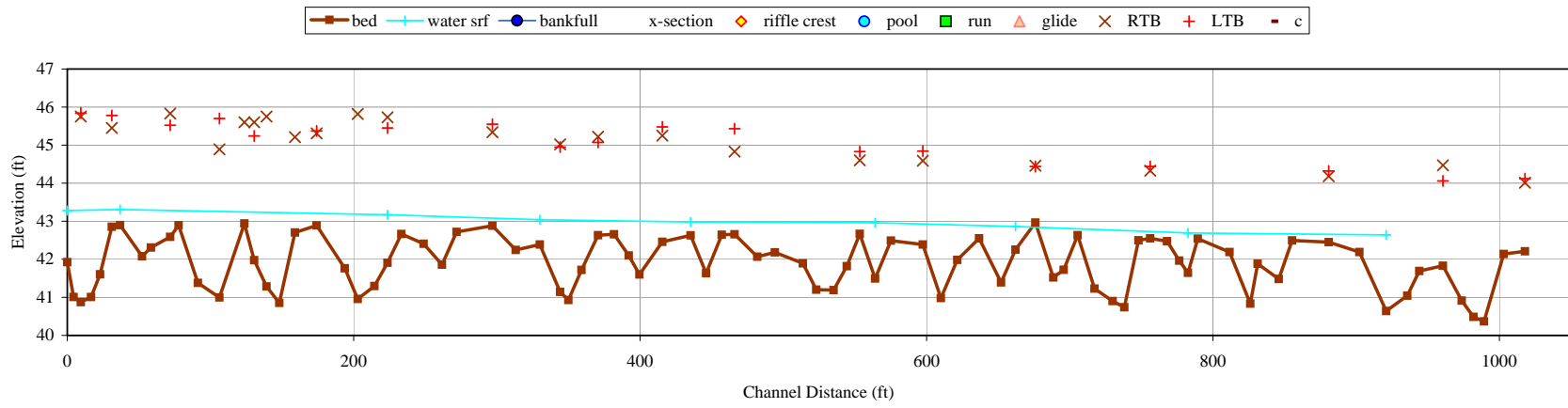
ENVIRONMENTAL BANC & EXCHANGE, LLC
FLOGGIE MITIGATION PROJECT
BERTIE COUNTY, NORTH CAROLINA

FLOGGIE AS-BUILT PLANS
MONITORING OVERVIEW

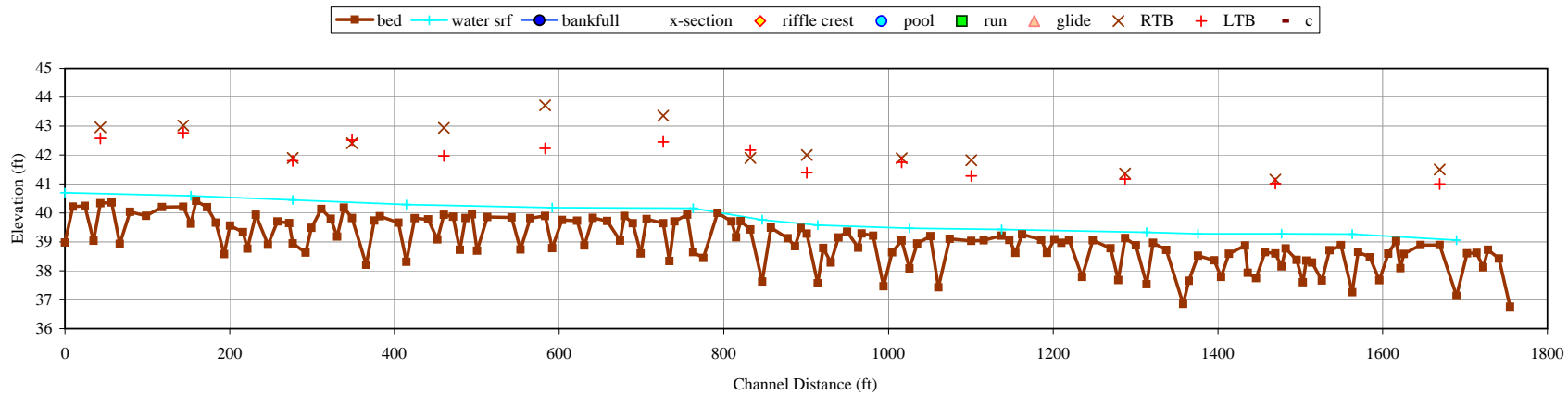
APPENDIX B

2008 Profile and Cross Section Data

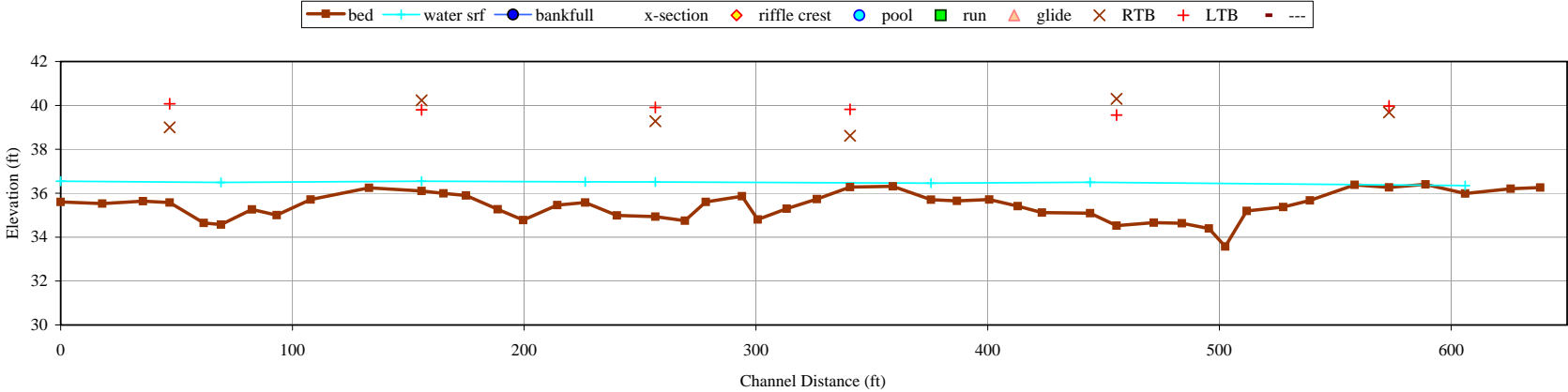
Floogie
Reach 1-2 STA. 15+50 - STA. 25+50



Floogie
Reach 3 STA. 47+50 - STA. 65+00



Floogie
 Reach 4 STA. 87+50 - STA. 94+50

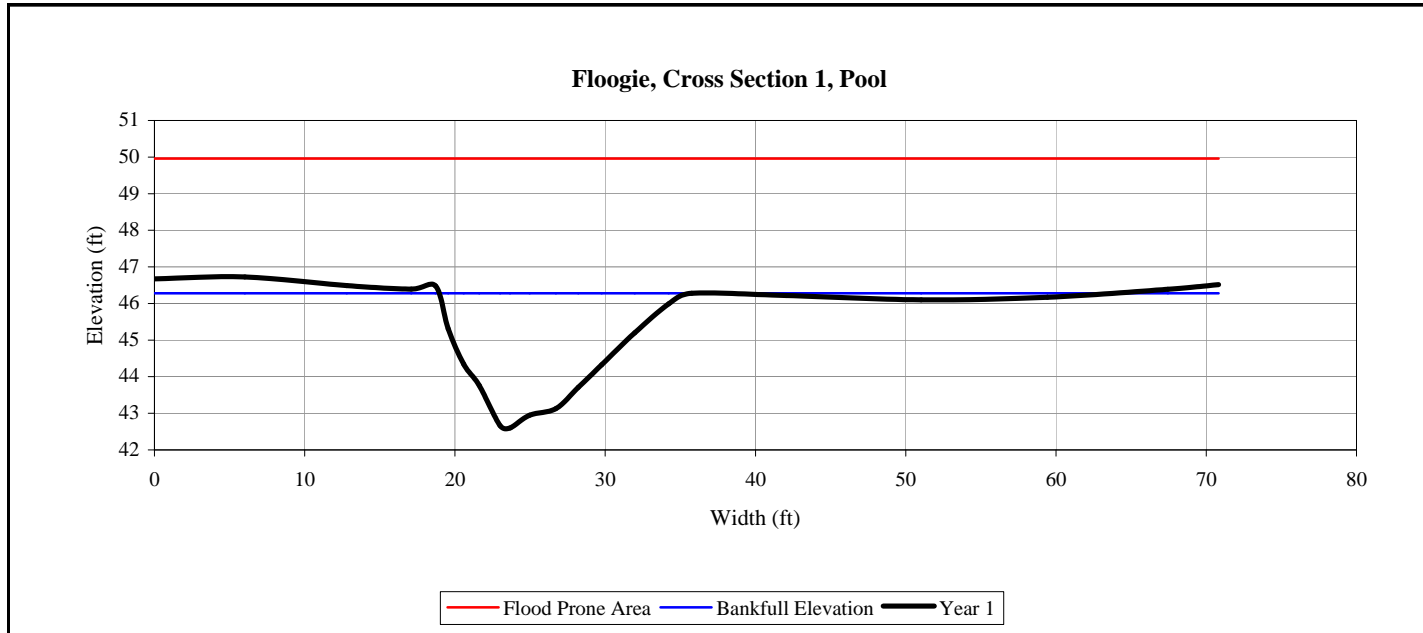




Left bank



Right bank

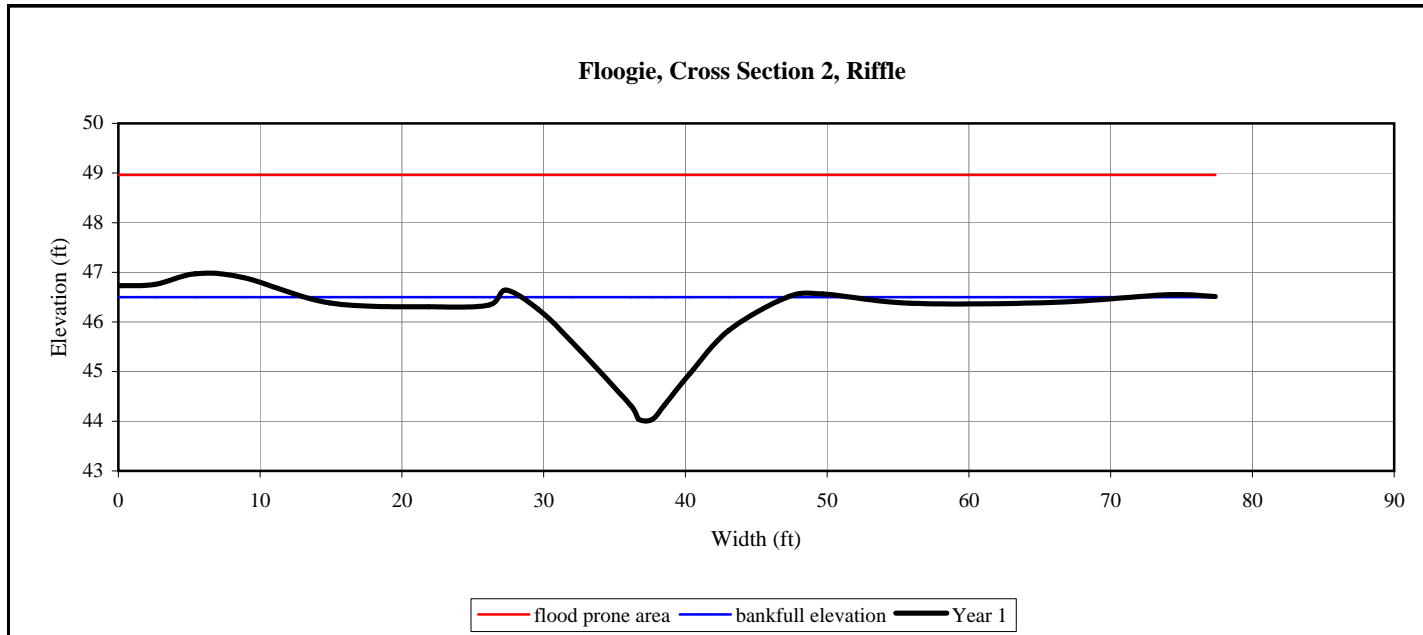




Left bank



Right bank

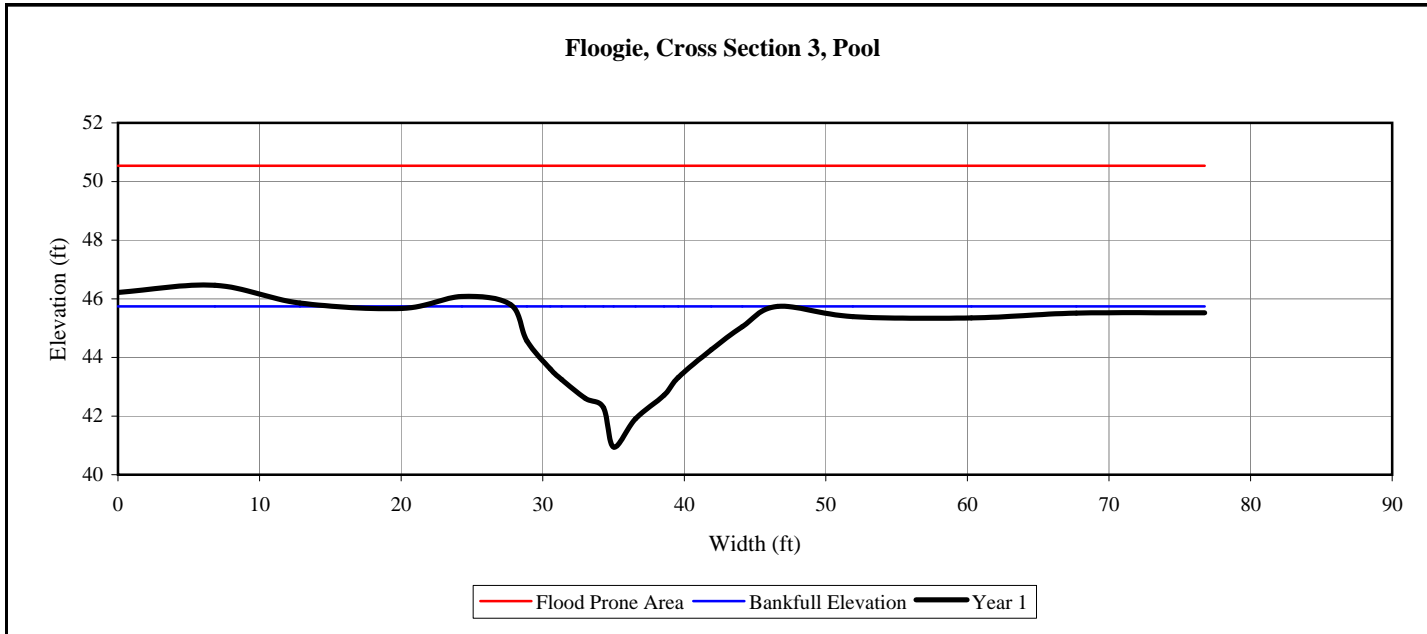




Left bank



Right bank

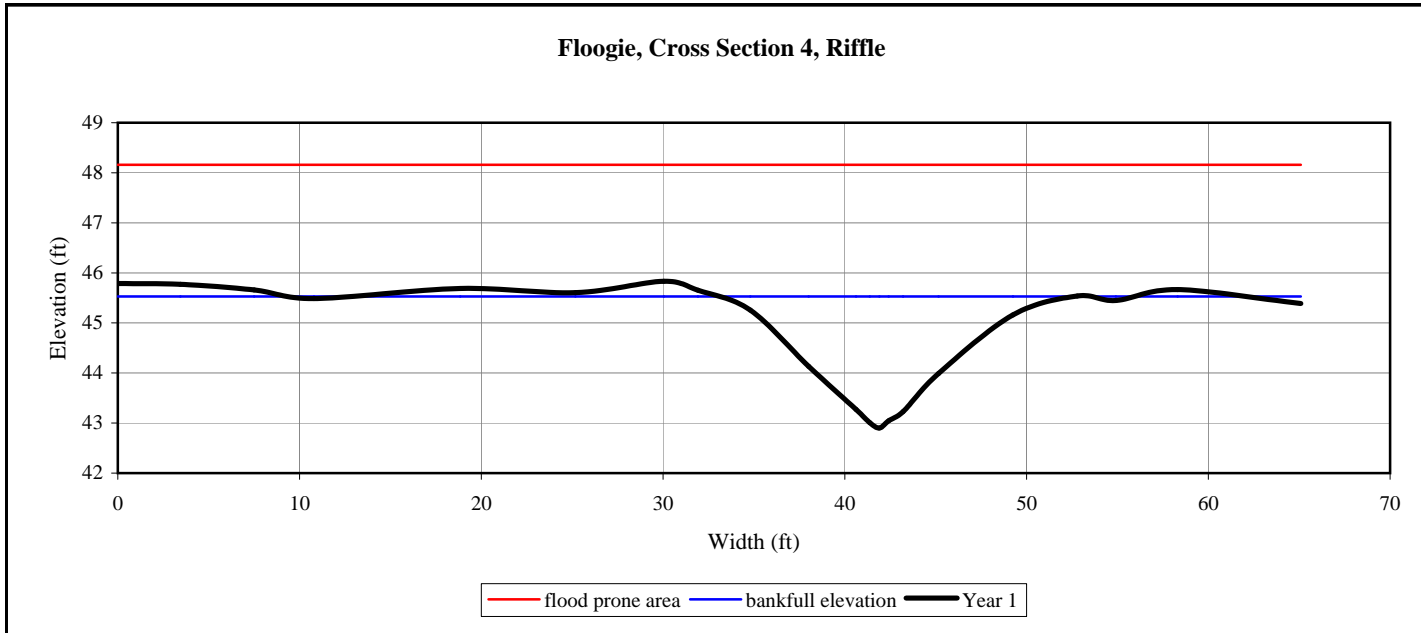




Left bank



Right bank

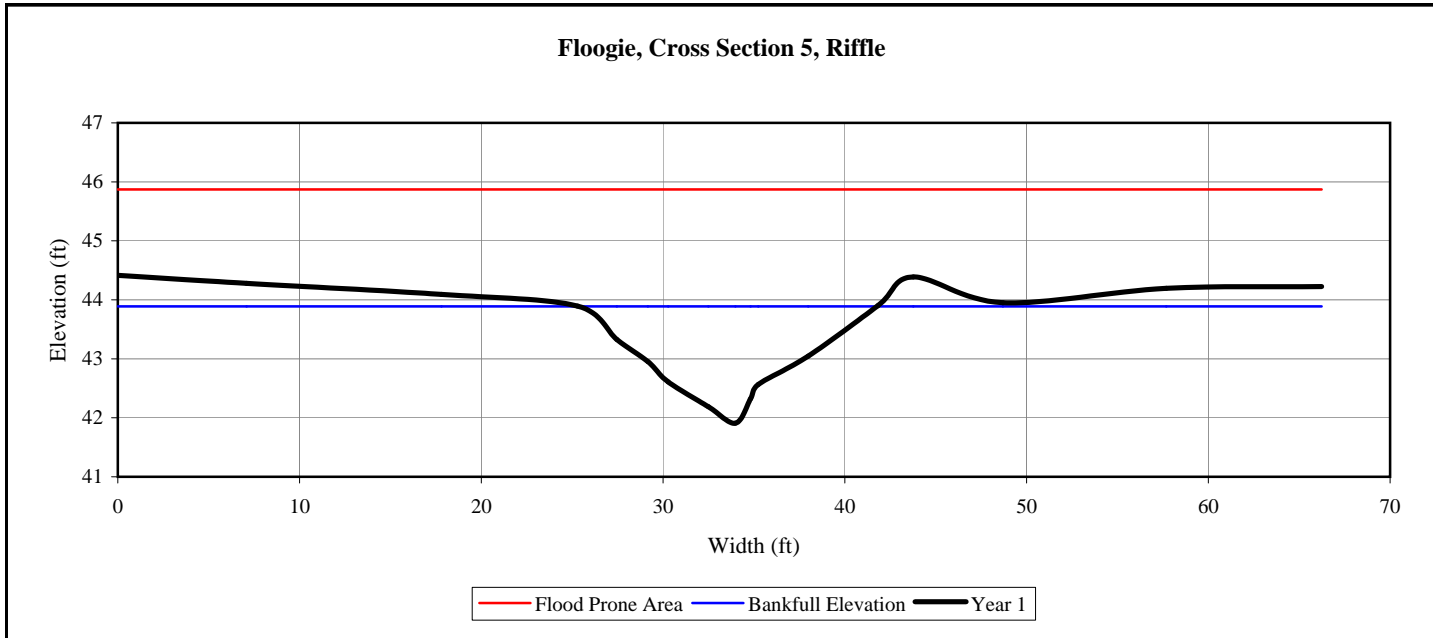




Left bank



Right bank

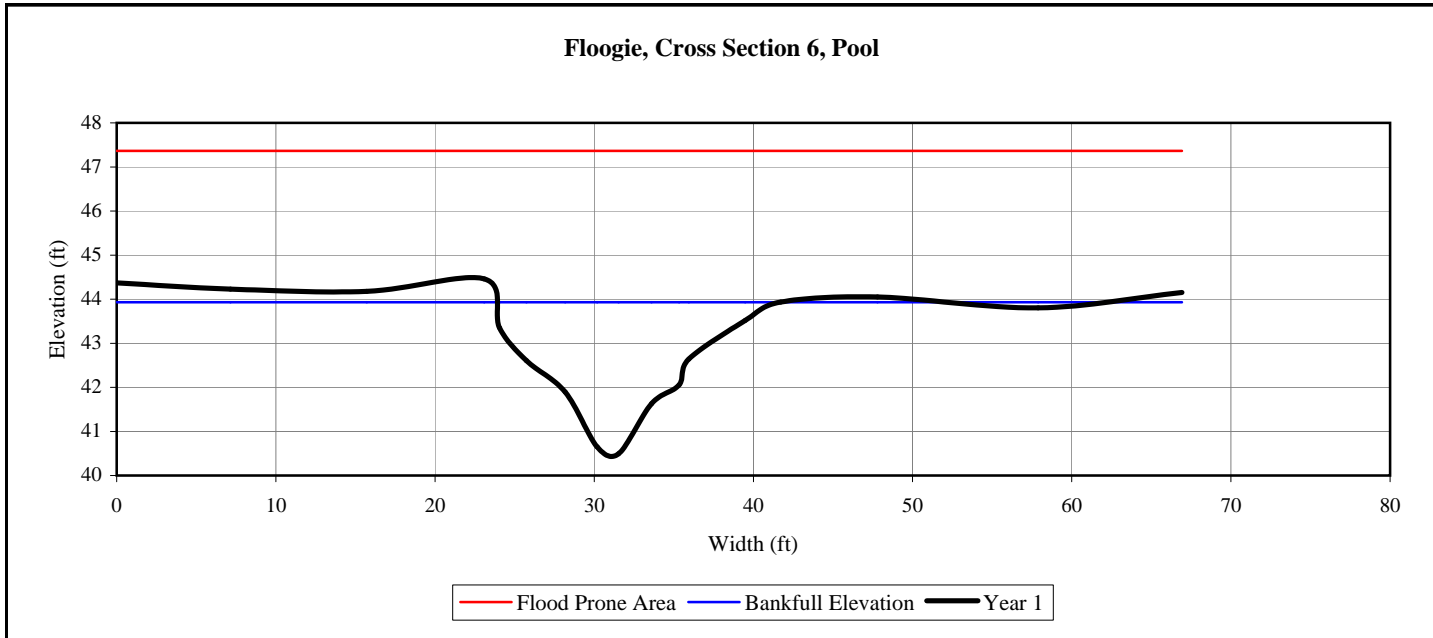




Left bank



Right bank

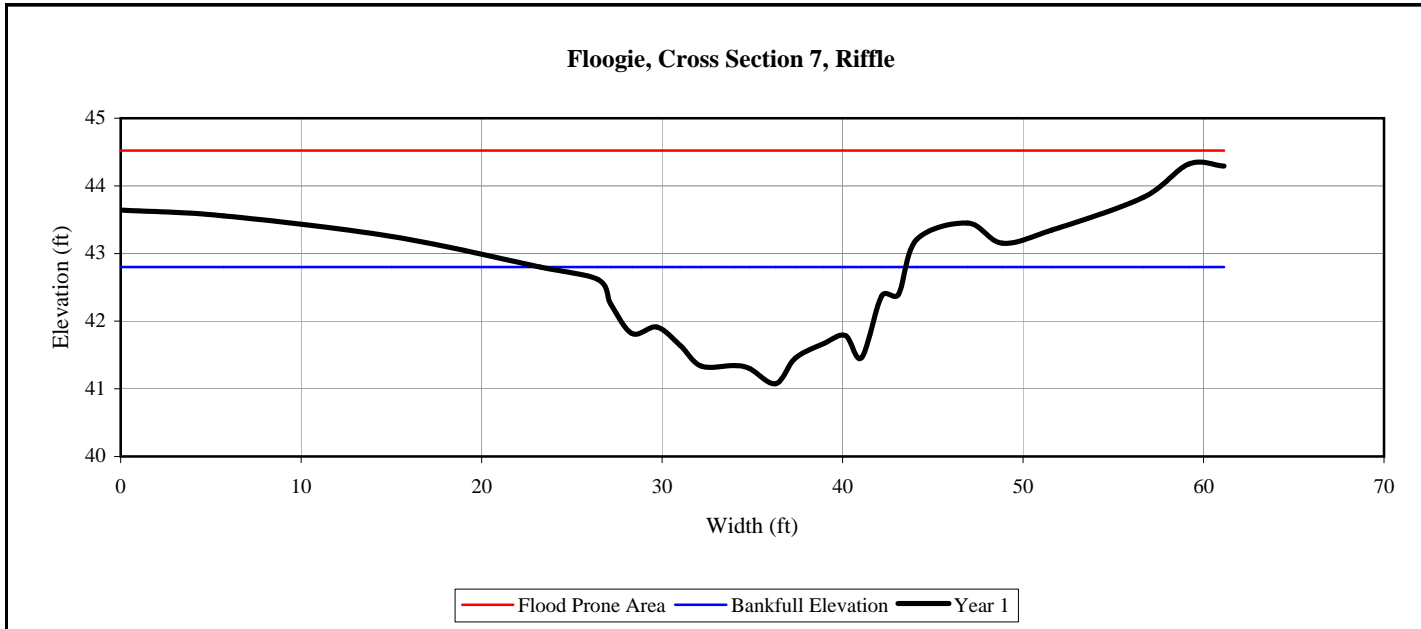




Left bank



Right bank

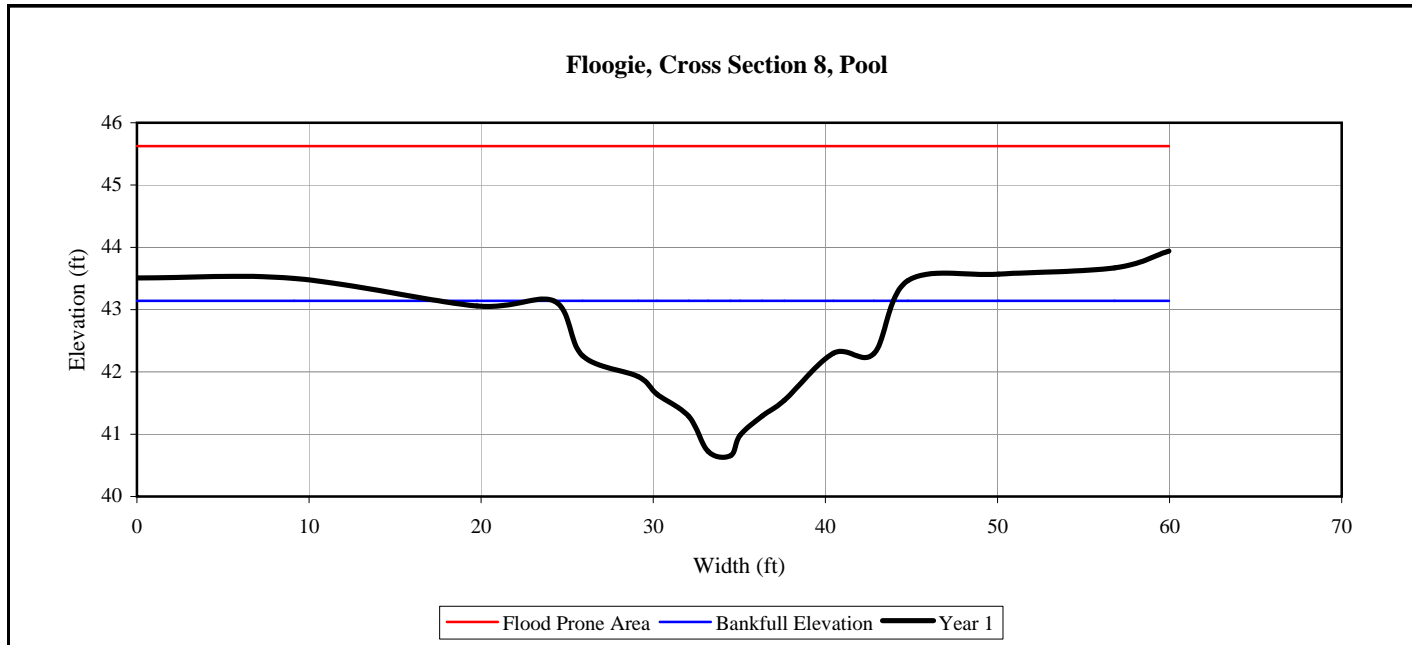




Left bank



Right bank

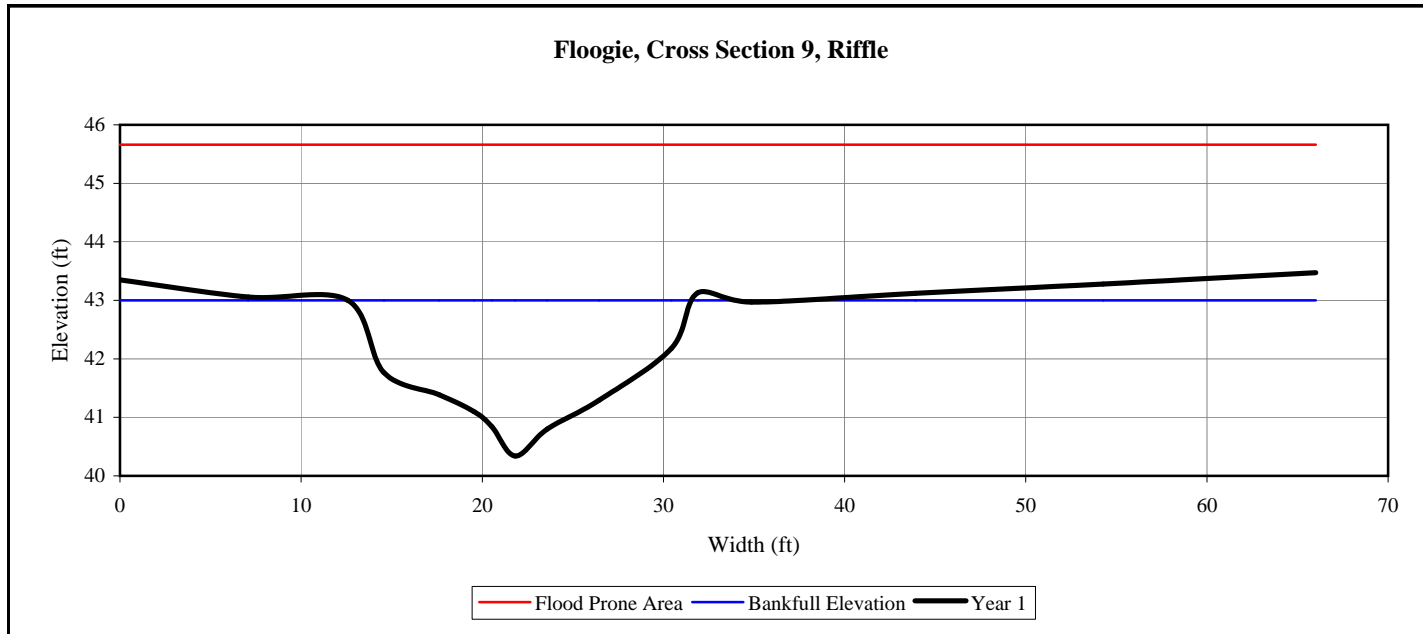




Left bank



Right bank

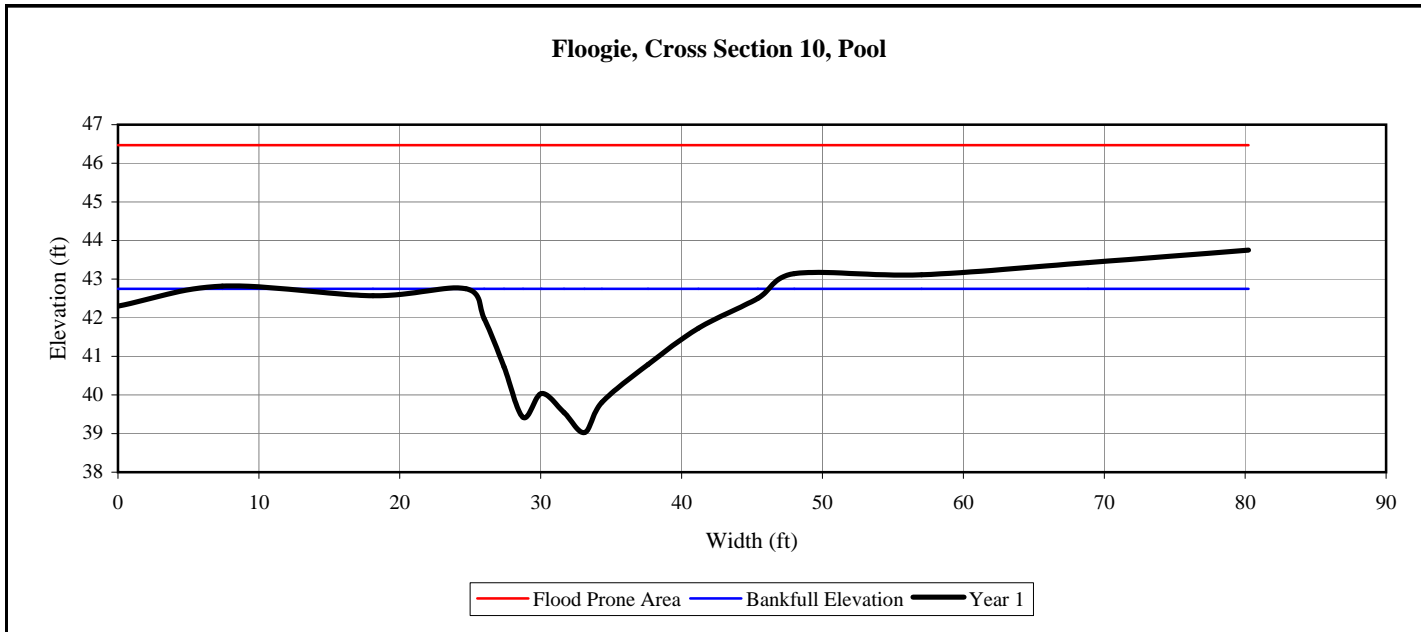




Left bank



Right bank

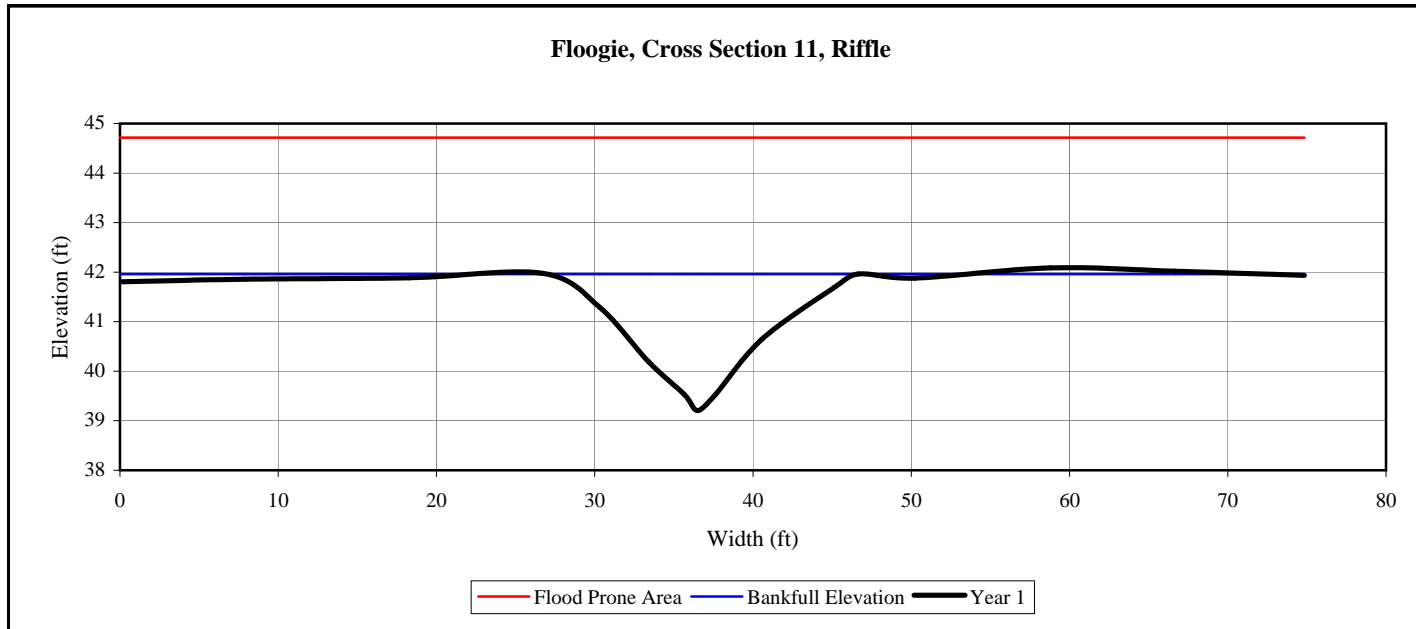




Left bank



Right bank

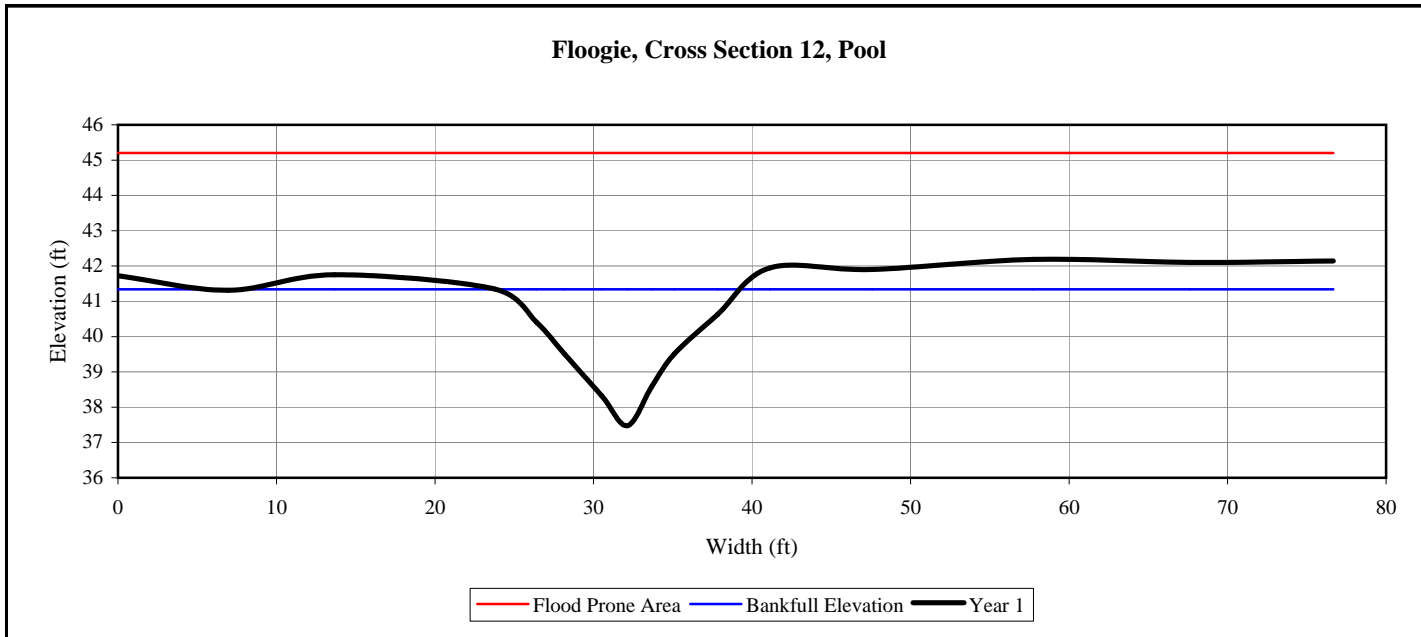




Left bank



Right bank

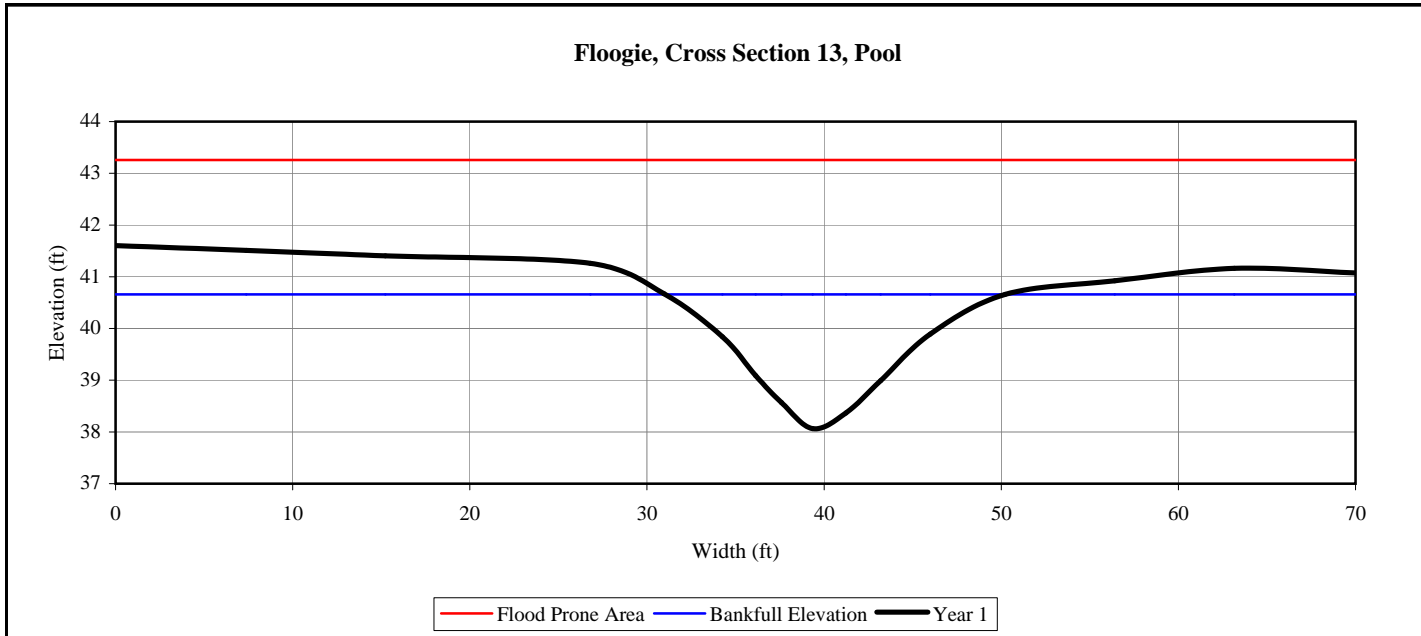




Left bank



Right bank

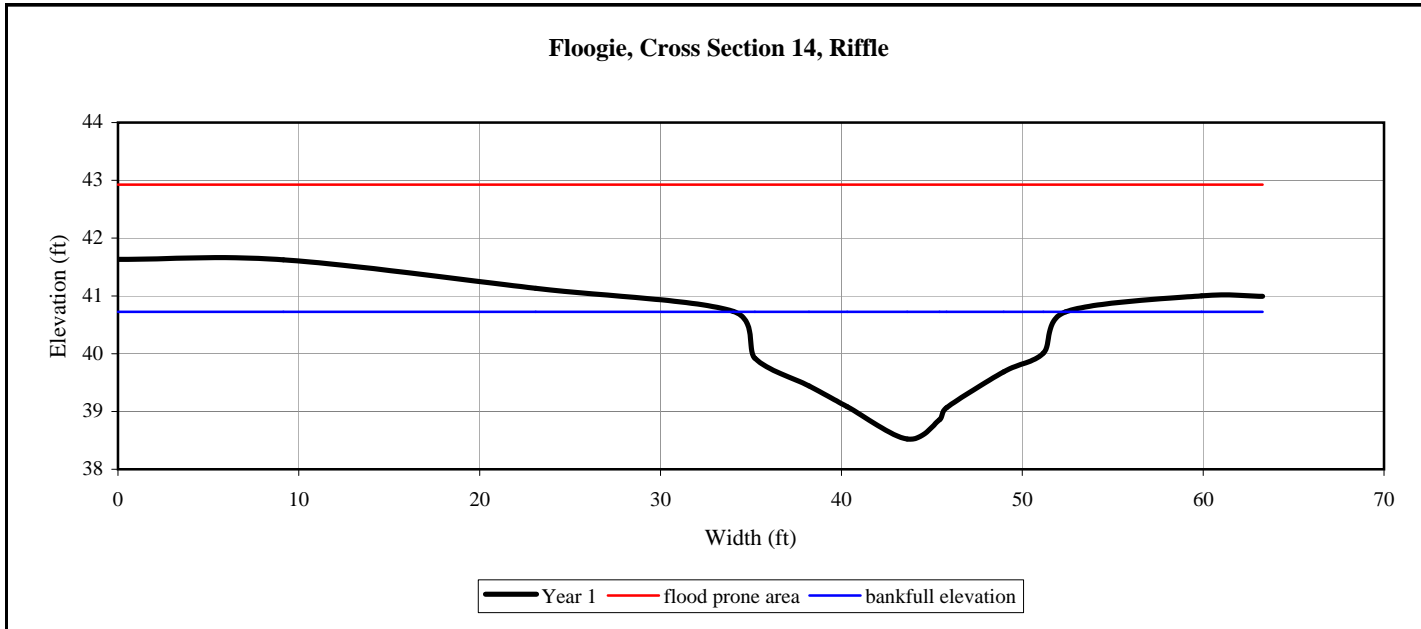




Left bank



Right bank

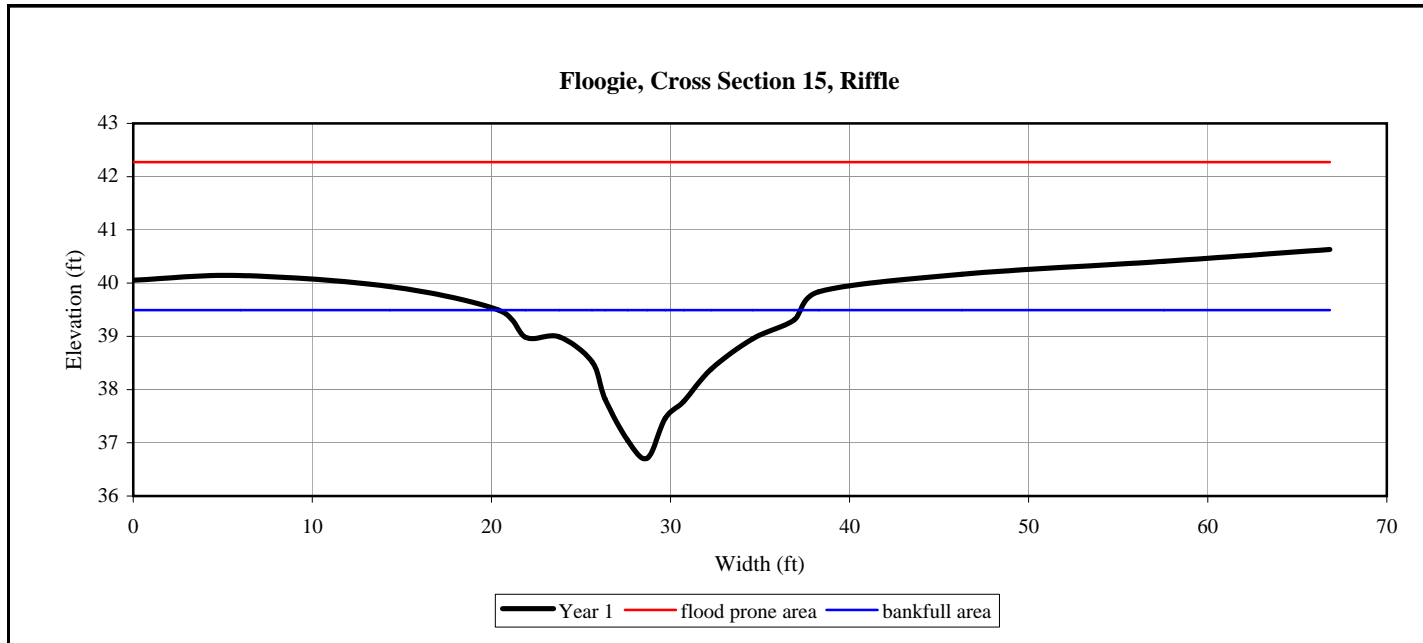




Left bank



Right bank

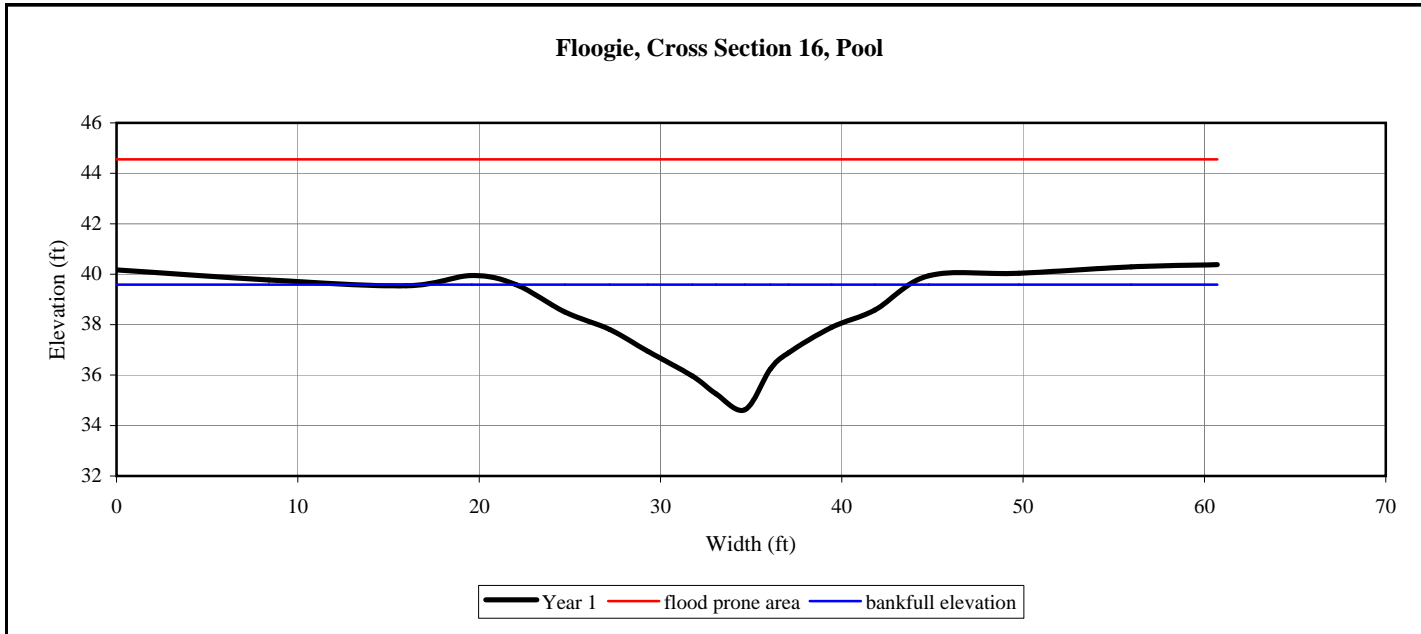




Left bank



Right bank

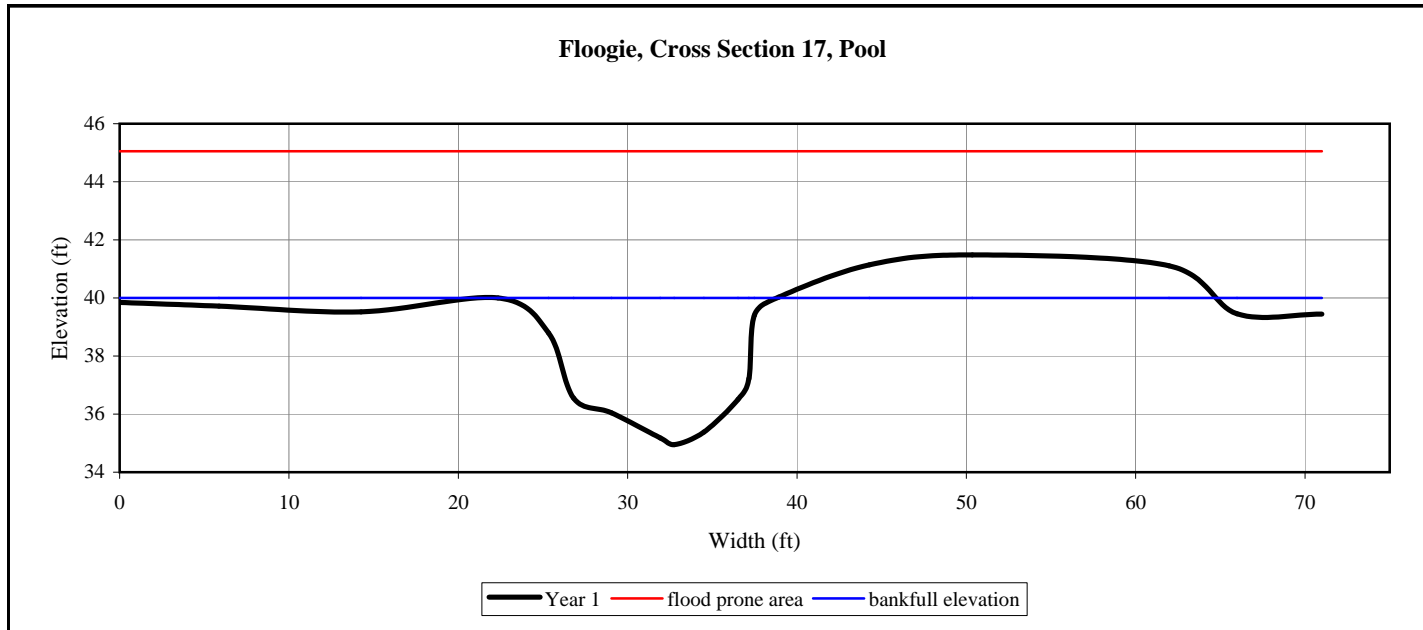




Left bank



Right bank

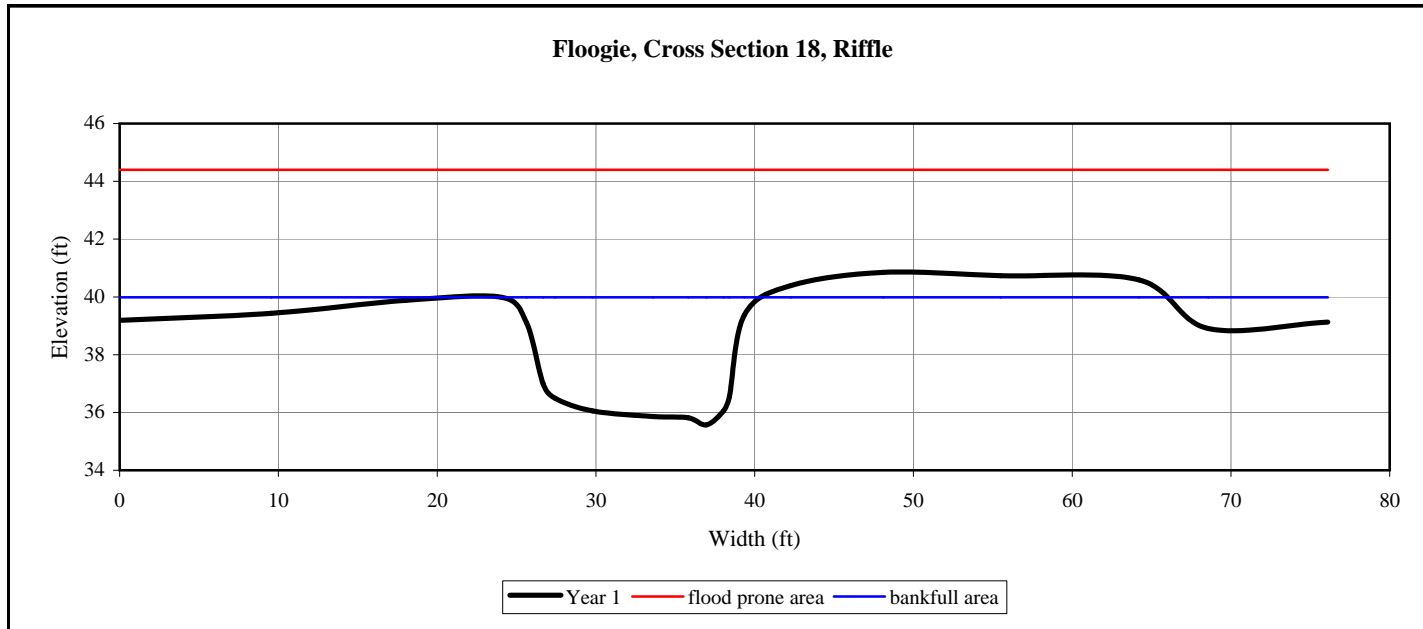




Left bank



Right bank

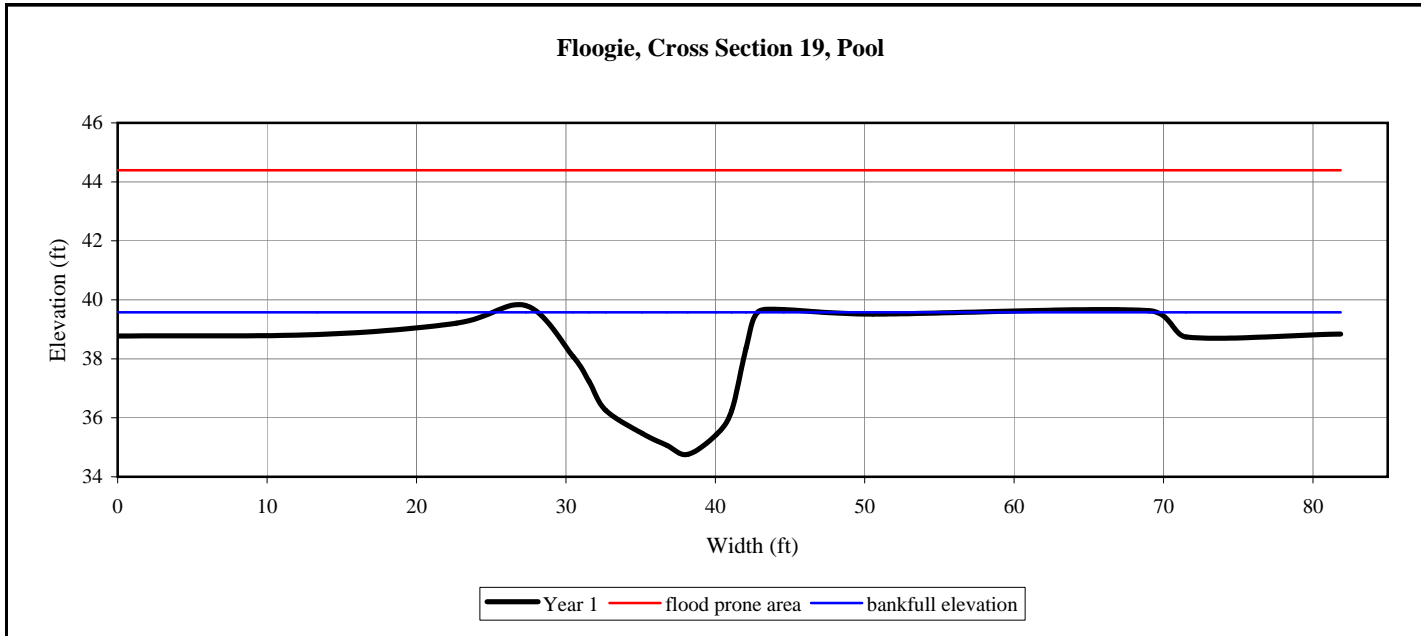




Left bank



Right bank

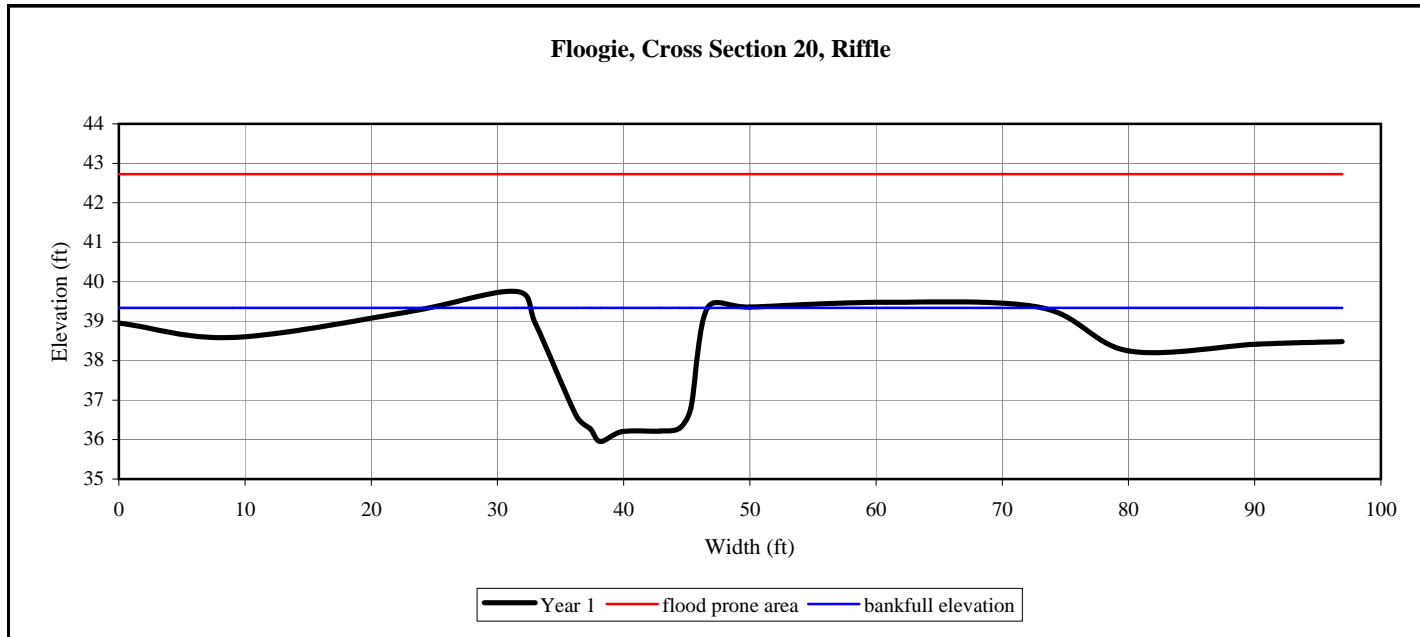




Left bank



Right bank



APPENDIX C

2008 Gauge Data

Date	Time	Water Level (inches)					
dd-mmm-yyyy	hh:mm:ss	FLO AW1	FLO AW2	FLO AW3	FLO AW4	FLO AW5	FLO AW6
1-Jan-2008	06:00:00						
1-Jan-2008	12:00:00						
1-Jan-2008	18:00:00						
1-Jan-2008	24:00:00						
2-Jan-2008	06:00:00						
2-Jan-2008	12:00:00						
2-Jan-2008	18:00:00						
2-Jan-2008	24:00:00						
3-Jan-2008	06:00:00						
3-Jan-2008	12:00:00						
3-Jan-2008	18:00:00						
3-Jan-2008	24:00:00						
4-Jan-2008	06:00:00						
4-Jan-2008	12:00:00						
4-Jan-2008	18:00:00						
4-Jan-2008	24:00:00						
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5-Jan-2008	12:00:00						
5-Jan-2008	18:00:00						
5-Jan-2008	24:00:00						
6-Jan-2008	06:00:00						
6-Jan-2008	12:00:00						
6-Jan-2008	18:00:00						
6-Jan-2008	24:00:00						
7-Jan-2008	06:00:00						
7-Jan-2008	12:00:00						
7-Jan-2008	18:00:00						
7-Jan-2008	24:00:00						
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8-Jan-2008	12:00:00						
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9-Jan-2008	24:00:00						
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10-Jan-2008	18:00:00						
10-Jan-2008	24:00:00						
11-Jan-2008	06:00:00						
11-Jan-2008	12:00:00						
11-Jan-2008	18:00:00						
11-Jan-2008	24:00:00						
12-Jan-2008	06:00:00						
12-Jan-2008	12:00:00						
12-Jan-2008	18:00:00						
12-Jan-2008	24:00:00						
13-Jan-2008	06:00:00						

Date	Time	Water Level (inches)					
dd-mmm-yyyy	hh:mm:ss	FLO AW1	FLO AW2	FLO AW3	FLO AW4	FLO AW5	FLO AW6
13-Jan-2008	12:00:00						
13-Jan-2008	18:00:00						
13-Jan-2008	24:00:00						
14-Jan-2008	06:00:00						
14-Jan-2008	12:00:00						
14-Jan-2008	18:00:00						
14-Jan-2008	24:00:00						
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16-Jan-2008	12:00:00						
16-Jan-2008	18:00:00						
16-Jan-2008	24:00:00						
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17-Jan-2008	18:00:00						
17-Jan-2008	24:00:00						
18-Jan-2008	06:00:00						
18-Jan-2008	12:00:00						
18-Jan-2008	18:00:00						
18-Jan-2008	24:00:00						
19-Jan-2008	06:00:00						
19-Jan-2008	12:00:00						
19-Jan-2008	18:00:00						
19-Jan-2008	24:00:00						
20-Jan-2008	06:00:00						
20-Jan-2008	12:00:00						
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24-Jan-2008	06:00:00						
24-Jan-2008	12:00:00						
24-Jan-2008	18:00:00						
24-Jan-2008	24:00:00						
25-Jan-2008	06:00:00						
25-Jan-2008	12:00:00						

Date	Time	Water Level (inches)					
dd-mmm-yyyy	hh:mm:ss	FLO AW1	FLO AW2	FLO AW3	FLO AW4	FLO AW5	FLO AW6
25-Jan-2008	18:00:00						
25-Jan-2008	24:00:00						
26-Jan-2008	06:00:00						
26-Jan-2008	12:00:00						
26-Jan-2008	18:00:00						
26-Jan-2008	24:00:00						
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5-Feb-2008	18:00:00						
5-Feb-2008	24:00:00						
6-Feb-2008	06:00:00						
6-Feb-2008	12:00:00						
6-Feb-2008	18:00:00						

Date	Time	Water Level (inches)					
dd-mmm-yyyy	hh:mm:ss	FLO AW1	FLO AW2	FLO AW3	FLO AW4	FLO AW5	FLO AW6
6-Feb-2008	24:00:00						
7-Feb-2008	06:00:00						
7-Feb-2008	12:00:00						
7-Feb-2008	18:00:00						
7-Feb-2008	24:00:00						
8-Feb-2008	06:00:00						
8-Feb-2008	12:00:00						
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11-Feb-2008	18:00:00						
11-Feb-2008	24:00:00						
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17-Feb-2008	18:00:00						
17-Feb-2008	24:00:00						
18-Feb-2008	06:00:00						
18-Feb-2008	12:00:00						
18-Feb-2008	18:00:00						
18-Feb-2008	24:00:00						

Date	Time	Water Level (inches)					
		FLO AW1	FLO AW2	FLO AW3	FLO AW4	FLO AW5	FLO AW6
19-Feb-2008	06:00:00						
19-Feb-2008	12:00:00						
19-Feb-2008	18:00:00						
19-Feb-2008	24:00:00						
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20-Feb-2008	12:00:00						
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27-Feb-2008	24:00:00						
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28-Feb-2008	12:00:00						
28-Feb-2008	18:00:00	0.73	-1.54	1.04	0.31		
28-Feb-2008	24:00:00	0.43	-1.98	0.15	-0.05		
29-Feb-2008	06:00:00	0.03	-2.62	-0.01	-0.45		
29-Feb-2008	12:00:00	-0.56	-2.34	-0.21	-0.75	1.31	-2.06
29-Feb-2008	18:00:00	-0.57	-2.49	-0.25	-1.08	-1.10	-2.18
29-Feb-2008	24:00:00	-0.63	-3.08	-0.11	-1.02	-1.46	-2.23
1-Mar-2008	06:00:00	-0.53	-2.01	0.30	-0.55	-1.39	-1.34
1-Mar-2008	12:00:00	-0.57	-2.21	0.02	-0.96	-1.74	-1.69
1-Mar-2008	18:00:00	-0.56	-3.20	-0.36	-1.25	-1.94	-2.41
1-Mar-2008	24:00:00	-0.53	-3.68	-0.34	-1.37	-2.18	-2.74
2-Mar-2008	06:00:00	-0.56	-4.10	-0.49	-1.39	-2.41	-3.06

Date	Time	Water Level (inches)					
dd-mmm-yyyy	hh:mm:ss	FLO AW1	FLO AW2	FLO AW3	FLO AW4	FLO AW5	FLO AW6
2-Mar-2008	12:00:00	-0.83	-4.26	-0.64	-1.68	-2.84	-3.43
2-Mar-2008	18:00:00	-0.67	-4.19	-0.45	-1.73	-2.87	-3.67
2-Mar-2008	24:00:00	-0.64	-4.50	-0.31	-1.69	-3.04	-3.73
3-Mar-2008	06:00:00	-0.71	-4.56	-0.34	-1.78	-3.19	-3.87
3-Mar-2008	12:00:00	-0.75	-4.62	-0.53	-1.93	-3.30	-4.21
3-Mar-2008	18:00:00	-0.76	-4.65	-0.63	-2.02	-3.48	-4.35
3-Mar-2008	24:00:00	-0.63	-4.70	-0.37	-1.75	-3.49	-4.14
4-Mar-2008	06:00:00	-0.58	-4.42	-0.35	-1.75	-3.62	-4.20
4-Mar-2008	12:00:00	-0.75	-4.41	-0.47	-1.93	-3.76	-4.53
4-Mar-2008	18:00:00	-0.59	-4.66	-0.18	-1.78	-3.71	-4.40
4-Mar-2008	24:00:00	-0.45	-3.35	0.91	0.11	-3.30	-2.58
5-Mar-2008	06:00:00	0.65	2.12	0.67	5.51	6.82	2.26
5-Mar-2008	12:00:00	-0.05	1.16	0.14	1.77	3.95	2.00
5-Mar-2008	18:00:00	-0.27	0.87	-0.22	0.89	3.12	1.41
5-Mar-2008	24:00:00	-0.27	0.36	-0.19	0.57	2.51	1.02
6-Mar-2008	06:00:00	-0.27	0.00	-0.24	0.24	2.03	0.63
6-Mar-2008	12:00:00	-0.45	-0.30	-0.39	-0.13	1.52	0.30
6-Mar-2008	18:00:00	-0.29	-0.24	-0.28	-0.29	1.22	-0.12
6-Mar-2008	24:00:00	-0.37	-0.75	-0.24	-0.65	0.85	-0.52
7-Mar-2008	06:00:00	-0.25	-0.84	-0.03	-0.61	0.53	-0.55
7-Mar-2008	12:00:00	-0.22	-0.21	0.67	0.02	0.28	-0.21
7-Mar-2008	18:00:00	1.21	2.98	1.81	5.27	5.03	2.45
7-Mar-2008	24:00:00	0.29	2.01	0.69	1.88	4.02	1.98
8-Mar-2008	06:00:00	0.15	1.98	0.90	1.53	3.28	2.06
8-Mar-2008	12:00:00	0.43	2.35	1.28	2.18	3.32	2.30
8-Mar-2008	18:00:00	0.22	1.54	-0.17	1.92	3.17	1.83
8-Mar-2008	24:00:00	-0.07	0.39	-0.65	1.11	2.63	1.48
9-Mar-2008	06:00:00	0.03	-0.08	-0.54	0.67	2.29	1.26
9-Mar-2008	12:00:00	-0.34	-0.60	-1.00	0.11	1.58	0.81
9-Mar-2008	18:00:00	-0.26	-0.66	-0.72	-0.24	1.44	0.44
9-Mar-2008	24:00:00	-0.15	-1.04	-0.41	-0.46	1.06	0.33
10-Mar-2008	06:00:00	-0.21	-1.42	-0.46	-0.60	0.80	0.02
10-Mar-2008	12:00:00	-0.55	-1.58	-0.69	-1.05	0.24	-0.36
10-Mar-2008	18:00:00	-0.32	-1.44	-0.53	-1.32	0.23	-0.50
10-Mar-2008	24:00:00	-0.31	-1.91	-0.40	-1.35	-0.10	-0.70
11-Mar-2008	06:00:00	-0.23	-2.12	-0.29	-1.36	-0.22	-0.96
11-Mar-2008	12:00:00	-0.49	-2.31	-0.46	-1.63	-0.61	-1.08
11-Mar-2008	18:00:00	-0.34	-2.13	-0.11	-1.73	-0.65	-1.11
11-Mar-2008	24:00:00	-0.35	-2.36	0.06	-1.73	-0.89	-1.15
12-Mar-2008	06:00:00	-0.29	-2.62	-0.06	-1.65	-0.92	-1.15
12-Mar-2008	12:00:00	-0.52	-3.17	-0.75	-2.14	-1.32	-1.80
12-Mar-2008	18:00:00	-0.44	-3.80	-1.26	-2.58	-1.39	-2.44
12-Mar-2008	24:00:00	-0.44	-4.53	-0.93	-2.61	-1.80	-2.77
13-Mar-2008	06:00:00	-0.39	-4.64	-0.87	-2.62	-1.82	-2.89
13-Mar-2008	12:00:00	-0.57	-4.53	-1.11	-2.79	-2.23	-3.15
13-Mar-2008	18:00:00	-0.57	-4.85	-1.31	-2.86	-2.15	-3.63
13-Mar-2008	24:00:00	-0.41	-5.55	-1.35	-3.13	-2.41	-4.04
14-Mar-2008	06:00:00	-0.38	-5.73	-1.00	-2.92	-2.45	-3.92
14-Mar-2008	12:00:00	-0.49	-5.62	-1.12	-3.09	-2.84	-4.23

Date	Time	Water Level (inches)					
dd-mmm-yyyy	hh:mm:ss	FLO AW1	FLO AW2	FLO AW3	FLO AW4	FLO AW5	FLO AW6
14-Mar-2008	18:00:00	-0.58	-6.08	-2.05	-3.47	-2.74	-4.75
14-Mar-2008	24:00:00	-0.40	-6.48	-1.51	-3.25	-2.80	-4.86
15-Mar-2008	06:00:00	-0.40	-6.88	-1.85	-3.40	-3.14	-5.26
15-Mar-2008	12:00:00	-0.68	-6.77	-2.32	-3.65	-3.54	-5.78
15-Mar-2008	18:00:00	-0.39	-6.87	-3.24	-3.58	-3.32	-5.92
15-Mar-2008	24:00:00	0.34	0.70	0.90	2.21	0.47	0.66
16-Mar-2008	06:00:00	-0.07	0.55	-0.06	1.37	1.73	1.29
16-Mar-2008	12:00:00	-0.20	0.18	-0.59	0.54	1.78	1.05
16-Mar-2008	18:00:00	-0.26	-0.27	-0.89	0.00	1.45	0.65
16-Mar-2008	24:00:00	-0.20	-0.88	-1.01	-0.34	1.12	0.22
17-Mar-2008	06:00:00	-0.22	-1.20	-0.96	-0.67	0.77	-0.20
17-Mar-2008	12:00:00	-0.44	-1.55	-1.47	-1.24	0.19	-0.75
17-Mar-2008	18:00:00	-0.39	-1.74	-1.71	-1.63	-0.02	-1.30
17-Mar-2008	24:00:00	-0.32	-2.00	-1.24	-1.69	-0.22	-1.40
18-Mar-2008	06:00:00	-0.32	-2.38	-1.07	-1.74	-0.38	-1.65
18-Mar-2008	12:00:00	-0.40	-2.12	-1.25	-2.02	-0.85	-2.11
18-Mar-2008	18:00:00	-0.34	-2.27	-0.78	-1.93	-0.92	-2.13
18-Mar-2008	24:00:00	-0.22	-2.43	-0.61	-1.99	-1.12	-2.24
19-Mar-2008	06:00:00	-0.21	-2.37	-0.33	-1.81	-1.25	-2.19
19-Mar-2008	12:00:00	-0.39	-2.19	-0.40	-2.05	-1.52	-2.44
19-Mar-2008	18:00:00	-0.32	-2.78	-0.93	-2.34	-1.72	-2.80
19-Mar-2008	24:00:00	0.14	-1.46	0.79	-1.08	-1.24	-1.32
20-Mar-2008	06:00:00	-0.11	-1.47	-0.54	-1.48	-1.49	-1.58
20-Mar-2008	12:00:00	-0.47	-3.32	-1.65	-2.77	-2.09	-3.00
20-Mar-2008	18:00:00	-0.46	-4.58	-4.68	-3.48	-2.21	-4.20
20-Mar-2008	24:00:00	-0.34	-5.58	-5.51	-3.60	-2.53	-4.57
21-Mar-2008	06:00:00	-0.32	-5.94	-5.73	-3.64	-2.64	-4.80
21-Mar-2008	12:00:00	-0.58	-6.23	-6.99	-3.99	-3.12	-5.50
21-Mar-2008	18:00:00	-0.47	-6.33	-8.79	-4.21	-3.14	-5.96
21-Mar-2008	24:00:00	-0.41	-6.72	-8.97	-4.11	-3.29	-6.00
22-Mar-2008	06:00:00	-0.37	-6.62	-9.39	-3.85	-3.26	-6.00
22-Mar-2008	12:00:00	-0.52	-6.74	-10.57	-4.25	-3.50	-6.56
22-Mar-2008	18:00:00	-0.45	-7.47	-13.42	-4.62	-3.64	-7.57
22-Mar-2008	24:00:00	-0.44	-8.46	-15.52	-4.73	-3.95	-8.23
23-Mar-2008	06:00:00	-0.37	-8.46	-15.72	-4.69	-4.10	-8.34
23-Mar-2008	12:00:00	-0.64	-8.84	-17.04	-5.15	-4.49	-9.49
23-Mar-2008	18:00:00	-0.52	-9.12	-18.42	-5.31	-4.51	-10.08
23-Mar-2008	24:00:00	-0.50	-9.48	-19.30	-5.14	-4.51	-10.03
24-Mar-2008	06:00:00	-0.32	-9.33	-19.50	-5.09	-4.50	-10.00
24-Mar-2008	12:00:00	-0.67	-9.03	-19.90	-5.04	-4.76	-10.64
24-Mar-2008	18:00:00	-0.83	-9.76	-20.81	-5.46	-4.97	-11.74
24-Mar-2008	24:00:00	-0.71	-10.43	-21.87	-5.53	-5.00	-12.03
25-Mar-2008	06:00:00	-0.58	-10.35	-22.54	-5.57	-5.60	-12.49
25-Mar-2008	12:00:00	-0.93	-10.65	-23.51	-6.12	-5.53	-13.72
25-Mar-2008	18:00:00	-0.94	-10.41	-23.37	-6.37	-5.66	-14.48
25-Mar-2008	24:00:00	-0.85	-10.90	-24.03	-6.37	-5.69	-14.78
26-Mar-2008	06:00:00	-0.85	-10.83	-24.52	-6.59	-5.95	-15.04
26-Mar-2008	12:00:00	-1.01	-10.86	-24.91	-6.91	-6.00	-15.98
26-Mar-2008	18:00:00	-1.03	-10.96	-24.96	-7.36	-6.08	-17.26

Date	Time	Water Level (inches)					
dd-mmm-yyyy	hh:mm:ss	FLO AW1	FLO AW2	FLO AW3	FLO AW4	FLO AW5	FLO AW6
26-Mar-2008	24:00:00	-0.85	-11.54	-25.87	-7.54	-6.11	-17.70
27-Mar-2008	06:00:00	-0.71	-11.37	-26.22	-7.42	-6.60	-17.46
27-Mar-2008	12:00:00	-1.04	-11.56	-26.83	-8.01	-6.66	-18.28
27-Mar-2008	18:00:00	-1.15	-11.56	-26.61	-8.45	-6.88	-19.36
27-Mar-2008	24:00:00	-1.10	-12.20	-27.30	-8.58	-6.92	-19.58
28-Mar-2008	06:00:00	-0.97	-12.20	-27.96	-8.57	-7.21	-19.24
28-Mar-2008	12:00:00	-1.21	-12.32	-28.38	-9.03	-7.55	-19.93
28-Mar-2008	18:00:00	-1.42	-12.70	-28.55	-9.70	-6.67	-21.30
28-Mar-2008	24:00:00	-0.63	-12.58	-28.56	-6.70	-6.47	-19.92
29-Mar-2008	06:00:00	-0.63	-10.65	-28.49	-6.54	-6.40	-16.08
29-Mar-2008	12:00:00	-0.52	-9.78	-28.47	-5.65	-6.36	-15.02
29-Mar-2008	18:00:00	-0.67	-8.57	-28.51	-6.00	-6.73	-14.34
29-Mar-2008	24:00:00	-0.80	-8.32	-28.47	-6.48	-6.86	-15.31
30-Mar-2008	06:00:00	-0.86	-8.24	-28.01	-6.94	-6.77	-16.18
30-Mar-2008	12:00:00	-0.80	-7.49	-27.99	-5.80	-3.91	-14.12
30-Mar-2008	18:00:00	-0.23	-2.36	-12.82	-2.82	-3.82	-6.54
30-Mar-2008	24:00:00	-0.39	-1.78	-9.18	-2.80	-4.03	-5.80
31-Mar-2008	06:00:00	-0.58	-1.85	-8.91	-2.87	-4.27	-6.20
31-Mar-2008	12:00:00	-0.58	-1.98	-8.55	-2.74	-4.36	-5.89
31-Mar-2008	18:00:00	-0.58	-2.06	-9.79	-2.87	-4.26	-6.04
31-Mar-2008	24:00:00	-0.55	-2.33	-10.63	-2.73	-4.14	-5.84
1-Apr-2008	06:00:00	-0.41	-2.37	-10.73	-2.63	-2.92	-5.65
1-Apr-2008	12:00:00	-0.28	0.07	-4.30	-0.85	-1.94	-2.40
1-Apr-2008	18:00:00	-0.04	1.26	-0.89	-0.13	-1.68	-1.12
1-Apr-2008	24:00:00	-0.25	0.84	-0.59	-0.43	-1.14	-1.57
2-Apr-2008	06:00:00	-0.28	0.60	-0.94	-0.59	-1.45	-1.86
2-Apr-2008	12:00:00	-0.69	-0.47	-2.27	-1.57	-1.49	-2.91
2-Apr-2008	18:00:00	-0.63	-0.77	-4.20	-2.05	-1.67	-3.62
2-Apr-2008	24:00:00	-0.52	-1.52	-4.96	-2.10	-1.81	-3.96
3-Apr-2008	06:00:00	-0.65	-1.89	-5.62	-2.32	-2.14	-4.38
3-Apr-2008	12:00:00	-0.74	-2.08	-6.60	-2.46	-2.35	-4.93
3-Apr-2008	18:00:00	-0.69	-2.27	-7.18	-2.38	-1.33	-4.89
3-Apr-2008	24:00:00	-0.29	-0.02	-1.42	-0.06	-0.22	-1.46
4-Apr-2008	06:00:00	-0.21	0.93	-0.23	0.24	-0.04	-0.70
4-Apr-2008	12:00:00	-0.44	0.63	-0.42	0.08	0.23	-1.12
4-Apr-2008	18:00:00	-0.45	0.66	-0.78	0.03	0.23	-1.52
4-Apr-2008	24:00:00	-0.33	0.30	-0.77	-0.21	1.16	-1.76
5-Apr-2008	06:00:00	0.37	1.84	0.87	2.04	2.21	0.09
5-Apr-2008	12:00:00	0.03	1.32	0.50	1.65	3.47	0.56
5-Apr-2008	18:00:00	0.64	2.16	1.43	2.54	3.68	2.80
5-Apr-2008	24:00:00	0.47	1.99	0.98	2.17	3.67	2.43
6-Apr-2008	06:00:00	0.50	1.90	0.90	2.18	3.11	2.49
6-Apr-2008	12:00:00	0.34	1.51	0.56	1.65	2.77	2.32
6-Apr-2008	18:00:00	0.21	1.29	0.37	1.37	2.35	2.18
6-Apr-2008	24:00:00	0.07	1.18	0.49	1.15	2.10	2.06
7-Apr-2008	06:00:00	0.23	1.09	0.55	1.15	1.75	2.06
7-Apr-2008	12:00:00	0.10	0.87	0.39	0.89	1.73	1.94
7-Apr-2008	18:00:00	0.08	0.82	0.29	0.81	1.45	1.77
7-Apr-2008	24:00:00	0.07	0.62	0.30	0.65	1.26	1.46

Date	Time	Water Level (inches)					
dd-mmm-yyyy	hh:mm:ss	FLO AW1	FLO AW2	FLO AW3	FLO AW4	FLO AW5	FLO AW6
8-Apr-2008	06:00:00	0.08	0.45	0.08	0.63	0.94	1.26
8-Apr-2008	12:00:00	-0.14	0.21	0.31	0.29	0.92	1.07
8-Apr-2008	18:00:00	-0.04	0.24	0.25	0.17	0.56	0.82
8-Apr-2008	24:00:00	-0.14	0.03	0.23	0.11	0.46	0.51
9-Apr-2008	06:00:00	-0.13	-0.11	0.32	-0.03	0.23	0.38
9-Apr-2008	12:00:00	-0.17	-0.21	0.49	0.17	0.11	0.24
9-Apr-2008	18:00:00	-0.17	0.21	0.36	0.33	-0.07	0.39
9-Apr-2008	24:00:00	-0.15	0.08	0.49	0.41	-0.12	0.22
10-Apr-2008	06:00:00	-0.04	-0.03	0.53	0.48	-0.44	0.16
10-Apr-2008	12:00:00	-0.25	-0.32	0.78	0.21	-0.60	0.03
10-Apr-2008	18:00:00	-0.25	-0.10	-0.43	-0.22	-0.84	-0.38
10-Apr-2008	24:00:00	-0.11	-0.51	0.44	-0.16	-1.00	-0.49
11-Apr-2008	06:00:00	-0.23	-0.69	0.20	-0.30	-1.25	-0.72
11-Apr-2008	12:00:00	-0.34	-0.76	0.44	-0.63	-1.43	-0.92
11-Apr-2008	18:00:00	-0.32	-1.32	-0.57	-1.26	-1.57	-1.60
11-Apr-2008	24:00:00	-0.22	-1.82	0.19	-1.31	-1.84	-1.69
12-Apr-2008	06:00:00	-0.31	-2.14	0.21	-1.39	-2.04	-1.88
12-Apr-2008	12:00:00	-0.47	-2.51	-0.37	-1.75	-1.12	-2.42
12-Apr-2008	18:00:00	-0.17	0.19	0.62	0.08	-1.28	-0.67
12-Apr-2008	24:00:00	-0.20	-0.04	0.30	0.32	-1.37	-0.80
13-Apr-2008	06:00:00	-0.16	-0.41	-0.13	0.03	-1.97	-0.99
13-Apr-2008	12:00:00	-0.28	-1.04	0.54	-0.37	-2.27	-1.62
13-Apr-2008	18:00:00	-0.23	-1.52	-0.45	-0.97	-2.42	-2.37
13-Apr-2008	24:00:00	-0.32	-2.39	-0.49	-1.32	-2.56	-2.78
14-Apr-2008	06:00:00	-0.28	-2.87	0.09	-1.55	-2.81	-3.04
14-Apr-2008	12:00:00	-0.46	-2.87	-0.82	-1.78	-2.88	-3.51
14-Apr-2008	18:00:00	-0.31	-1.91	-0.01	-1.15	-2.88	-2.79
14-Apr-2008	24:00:00	-0.22	-2.24	0.20	-1.32	-3.00	-3.10
15-Apr-2008	06:00:00	-0.22	-2.67	0.14	-1.41	-3.30	-3.34
15-Apr-2008	12:00:00	-0.47	-3.15	-1.06	-2.13	-3.56	-4.18
15-Apr-2008	18:00:00	-0.58	-3.69	-1.21	-2.73	-3.83	-5.22
15-Apr-2008	24:00:00	-0.46	-4.29	-0.79	-2.51	-3.88	-5.34
16-Apr-2008	06:00:00	-0.49	-4.78	-0.65	-2.63	-4.28	-5.78
16-Apr-2008	12:00:00	-0.71	-5.02	-1.02	-3.24	-4.45	-6.60
16-Apr-2008	18:00:00	-0.68	-5.04	-1.69	-3.61	-4.45	-7.86
16-Apr-2008	24:00:00	-0.47	-5.62	-1.14	-3.41	-4.58	-7.64
17-Apr-2008	06:00:00	-0.50	-6.08	-0.65	-3.31	-5.08	-7.80
17-Apr-2008	12:00:00	-0.79	-6.28	-1.51	-3.88	-5.15	-8.94
17-Apr-2008	18:00:00	-0.68	-6.29	-3.66	-4.15	-5.28	-10.00
17-Apr-2008	24:00:00	-0.50	-6.83	-2.45	-3.89	-5.29	-9.64
18-Apr-2008	06:00:00	-0.63	-7.11	-1.93	-3.81	-5.88	-9.63
18-Apr-2008	12:00:00	-0.86	-7.02	-2.40	-4.32	-6.17	-11.01
18-Apr-2008	18:00:00	-0.89	-7.53	-6.54	-4.65	-6.36	-12.44
18-Apr-2008	24:00:00	-0.73	-8.00	-7.11	-4.49	-6.41	-11.98
19-Apr-2008	06:00:00	-0.73	-8.26	-7.85	-4.43	-6.78	-12.20
19-Apr-2008	12:00:00	-0.97	-8.21	-9.75	-4.85	-7.14	-13.51
19-Apr-2008	18:00:00	-0.93	-8.74	-12.87	-5.20	-7.30	-14.92
19-Apr-2008	24:00:00	-0.81	-9.20	-14.21	-5.05	-7.19	-15.08
20-Apr-2008	06:00:00	-0.91	-9.06	-13.92	-4.87	-4.09	-14.71

Date	Time	Water Level (inches)					
dd-mmm-yyyy	hh:mm:ss	FLO AW1	FLO AW2	FLO AW3	FLO AW4	FLO AW5	FLO AW6
20-Apr-2008	12:00:00	-0.22	-2.84	-2.71	-1.11	-4.61	-4.80
20-Apr-2008	18:00:00	-0.39	-2.79	-1.53	-2.04	-1.34	-6.62
20-Apr-2008	24:00:00	0.62	1.17	1.61	1.94	3.22	0.50
21-Apr-2008	06:00:00	0.61	1.62	1.17	1.99	2.88	2.36
21-Apr-2008	12:00:00	0.34	1.29	0.54	1.52	2.46	2.00
21-Apr-2008	18:00:00	0.25	1.26	0.29	0.93	2.21	1.94
21-Apr-2008	24:00:00	0.28	1.41	1.01	1.05	2.58	1.85
22-Apr-2008	06:00:00	0.45	1.62	0.68	1.74	3.22	2.18
22-Apr-2008	12:00:00	1.09	2.07	1.40	2.69	3.18	2.60
22-Apr-2008	18:00:00	0.70	1.92	0.87	1.92	2.81	2.14
22-Apr-2008	24:00:00	0.71	1.81	0.97	1.77	2.41	2.14
23-Apr-2008	06:00:00	0.45	1.35	0.80	1.39	2.00	2.01
23-Apr-2008	12:00:00	0.27	1.09	0.44	1.04	1.74	1.76
23-Apr-2008	18:00:00	0.31	0.85	0.56	0.62	1.36	1.31
23-Apr-2008	24:00:00	0.25	0.61	0.54	0.47	1.04	0.99
24-Apr-2008	06:00:00	0.16	0.34	0.65	0.43	0.92	0.69
24-Apr-2008	12:00:00	0.05	0.19	0.23	-0.11	0.48	0.33
24-Apr-2008	18:00:00	0.07	-0.14	0.21	-0.39	0.13	0.02
24-Apr-2008	24:00:00	0.13	-0.58	0.26	-0.58	-0.25	-0.30
25-Apr-2008	06:00:00	0.11	-1.11	0.25	-0.70	-0.86	-0.62
25-Apr-2008	12:00:00	-0.09	-1.47	0.19	-1.18	-1.40	-1.09
25-Apr-2008	18:00:00	-0.16	-1.97	0.00	-1.71	-1.69	-1.77
25-Apr-2008	24:00:00	-0.08	-2.36	0.07	-1.73	-1.99	-1.96
26-Apr-2008	06:00:00	-0.15	-2.80	0.05	-1.92	-2.40	-2.29
26-Apr-2008	12:00:00	-0.28	-3.02	-0.18	-2.43	-3.08	-2.92
26-Apr-2008	18:00:00	-0.32	-3.52	-0.33	-2.94	-3.53	-3.84
26-Apr-2008	24:00:00	-0.38	-4.28	-0.39	-3.01	-3.56	-4.12
27-Apr-2008	06:00:00	-0.23	-4.58	-0.18	-2.79	-3.84	-4.17
27-Apr-2008	12:00:00	-0.26	-4.31	-0.23	-2.99	-4.14	-4.81
27-Apr-2008	18:00:00	-0.28	-4.67	-0.07	-3.00	-3.73	-4.88
27-Apr-2008	24:00:00	-0.14	-3.80	0.61	-1.50	-3.66	-3.01
28-Apr-2008	06:00:00	-0.14	-2.81	0.49	-1.84	-3.62	-3.19
28-Apr-2008	12:00:00	0.07	-1.79	1.25	-0.60	-2.58	-1.78
28-Apr-2008	18:00:00	0.03	0.07	1.08	0.44	-0.66	-0.49
28-Apr-2008	24:00:00	0.34	1.52	0.89	0.92	-0.13	2.42
29-Apr-2008	06:00:00	0.23	1.03	0.20	0.66	0.23	2.13
29-Apr-2008	12:00:00	-0.05	0.55	-0.35	-0.12	-0.13	1.68
29-Apr-2008	18:00:00	-0.02	-0.06	-0.17	-0.61	-0.37	1.25
29-Apr-2008	24:00:00	-0.08	-0.38	-0.21	-0.83	-0.71	0.88
30-Apr-2008	06:00:00	-0.05	-0.90	-0.10	-1.12	-1.37	0.53
30-Apr-2008	12:00:00	-0.29	-1.53	-0.16	-1.66	-1.97	0.12
30-Apr-2008	18:00:00	-0.26	-1.91	-0.69	-2.32	-2.26	-0.36
30-Apr-2008	24:00:00	-0.02	-2.34	-0.29	-2.22	-2.46	-0.57
1-May-2008	06:00:00	-0.15	-2.96	-0.30	-2.37	-3.19	-1.08
1-May-2008	12:00:00	-0.41	-3.05	-0.54	-2.87	-3.65	-1.81
1-May-2008	18:00:00	-0.39	-3.56	-1.02	-3.42	-3.98	-2.71
1-May-2008	24:00:00	-0.27	-4.56	-0.72	-3.60	-4.10	-3.14
2-May-2008	06:00:00	-0.33	-5.04	-0.61	-3.58	-4.68	-3.48
2-May-2008	12:00:00	-0.55	-5.22	-0.90	-4.12	-5.29	-4.39

Date	Time	Water Level (inches)					
dd-mmm-yyyy	hh:mm:ss	FLO AW1	FLO AW2	FLO AW3	FLO AW4	FLO AW5	FLO AW6
2-May-2008	18:00:00	-0.71	-6.02	-1.59	-4.74	-5.46	-5.43
2-May-2008	24:00:00	-0.58	-6.83	-1.24	-4.62	-5.45	-5.71
3-May-2008	06:00:00	-0.44	-6.96	-1.00	-4.49	-6.12	-5.85
3-May-2008	12:00:00	-0.70	-7.25	-1.30	-5.25	-6.76	-7.27
3-May-2008	18:00:00	-0.83	-7.91	-4.95	-5.82	-6.90	-8.83
3-May-2008	24:00:00	-0.87	-8.80	-5.64	-5.97	-6.83	-8.66
4-May-2008	06:00:00	-0.68	-8.76	-2.53	-5.65	-7.37	-8.47
4-May-2008	12:00:00	-0.88	-8.73	-3.63	-6.25	-7.93	-9.91
4-May-2008	18:00:00	-0.79	-8.94	-6.84	-6.47	-8.03	-10.94
4-May-2008	24:00:00	-0.87	-9.62	-8.05	-6.66	-7.90	-11.11
5-May-2008	06:00:00	-0.82	-9.52	-8.83	-6.59	-8.38	-11.19
5-May-2008	12:00:00	-0.93	-9.62	-6.99	-6.67	-8.87	-11.96
5-May-2008	18:00:00	-1.09	-9.59	-12.06	-7.23	-8.92	-13.27
5-May-2008	24:00:00	-1.07	-10.02	-12.95	-7.39	-8.96	-13.41
6-May-2008	06:00:00	-1.10	-10.24	-13.68	-7.48	-9.40	-13.46
6-May-2008	12:00:00	-1.36	-9.95	-14.98	-7.72	-10.16	-14.71
6-May-2008	18:00:00	-1.43	-10.46	-17.35	-8.45	-10.26	-16.72
6-May-2008	24:00:00	-1.57	-11.12	-18.06	-8.74	-10.20	-17.42
7-May-2008	06:00:00	-1.66	-11.50	-18.34	-8.76	-10.85	-17.56
7-May-2008	12:00:00	-2.07	-11.40	-16.72	-9.30	-11.66	-18.85
7-May-2008	18:00:00	-2.44	-11.80	-20.32	-9.95	-11.94	-21.33
7-May-2008	24:00:00	-2.67	-12.59	-21.84	-10.67	-11.92	-22.15
8-May-2008	06:00:00	-3.08	-13.13	-22.66	-10.91	-12.12	-22.11
8-May-2008	12:00:00	-3.13	-13.06	-23.53	-10.49	-11.86	-22.42
8-May-2008	18:00:00	-2.95	-12.04	-22.37	-9.45	-11.98	-20.72
8-May-2008	24:00:00	-3.23	-11.18	-21.37	-9.33	-11.68	-20.52
9-May-2008	06:00:00	-3.34	-10.52	-20.94	-9.01	-11.60	-20.11
9-May-2008	12:00:00	-2.78	-9.50	-19.56	-8.19	-12.94	-18.07
9-May-2008	18:00:00	-3.71	-9.86	-20.61	-10.43	-13.20	-22.28
9-May-2008	24:00:00	-4.27	-10.82	-22.97	-10.87	-13.22	-23.78
10-May-2008	06:00:00	-4.63	-11.26	-23.83	-10.91	-13.78	-23.90
10-May-2008	12:00:00	-5.55	-11.34	-24.45	-11.50	-14.68	-24.75
10-May-2008	18:00:00	-7.15	-12.48	-25.93	-13.07	-14.86	-27.19
10-May-2008	24:00:00	-8.08	-13.37	-26.85	-13.43	-14.80	-28.29
11-May-2008	06:00:00	-8.68	-13.74	-27.45	-13.44	-14.74	-28.21
11-May-2008	12:00:00	-8.97	-13.59	-27.81	-12.88	-13.08	-27.81
11-May-2008	18:00:00	-6.37	-10.66	-22.26	-7.62	-6.64	-23.53
11-May-2008	24:00:00	-0.37	-0.76	-0.94	0.36	-7.25	1.85
12-May-2008	06:00:00	-0.56	-1.17	-0.95	-0.30	-7.93	1.40
12-May-2008	12:00:00	-0.69	-2.13	-1.77	-1.00	-9.02	0.77
12-May-2008	18:00:00	-0.98	-3.30	-3.37	-1.80	-9.55	-0.22
12-May-2008	24:00:00	-1.15	-3.71	-3.94	-2.38	-9.82	-1.00
13-May-2008	06:00:00	-1.22	-4.07	-4.65	-2.68	-10.64	-1.89
13-May-2008	12:00:00	-1.71	-4.67	-6.21	-3.57	-11.60	-3.15
13-May-2008	18:00:00	-2.09	-5.43	-10.21	-4.27	-11.66	-4.75
13-May-2008	24:00:00	-2.06	-5.85	-10.78	-4.20	-11.90	-5.11
14-May-2008	06:00:00	-2.39	-6.44	-11.62	-4.39	-12.68	-5.72
14-May-2008	12:00:00	-3.02	-6.74	-13.59	-5.01	-13.43	-7.02
14-May-2008	18:00:00	-3.73	-7.11	-16.09	-5.58	-13.68	-8.68

Date	Time	Water Level (inches)					
dd-mmm-yyyy	hh:mm:ss	FLO AW1	FLO AW2	FLO AW3	FLO AW4	FLO AW5	FLO AW6
14-May-2008	24:00:00	-4.24	-7.61	-15.41	-5.65	-13.70	-8.64
15-May-2008	06:00:00	-4.81	-7.95	-17.58	-5.75	-14.41	-8.96
15-May-2008	12:00:00	-5.72	-8.19	-18.46	-6.18	-15.22	-10.54
15-May-2008	18:00:00	-7.11	-8.62	-19.80	-6.97	-15.13	-12.42
15-May-2008	24:00:00	-7.31	-8.73	-20.22	-6.53	-13.39	-11.43
16-May-2008	06:00:00	-4.18	-5.74	-13.67	-4.19	-13.38	-7.11
16-May-2008	12:00:00	-4.00	-4.67	-11.34	-4.26	-14.46	-7.06
16-May-2008	18:00:00	-5.32	-4.76	-14.26	-5.26	-12.19	-10.00
16-May-2008	24:00:00	-2.62	-2.30	-3.63	-3.07	-12.68	-5.65
17-May-2008	06:00:00	-2.67	-3.04	-4.61	-3.72	-13.80	-7.04
17-May-2008	12:00:00	-3.50	-3.60	-6.88	-4.53	-15.36	-9.12
17-May-2008	18:00:00	-5.09	-4.44	-11.44	-5.75	-15.68	-12.37
17-May-2008	24:00:00	-6.02	-5.42	-13.31	-5.89	-15.54	-11.96
18-May-2008	06:00:00	-6.75	-6.11	-14.49	-6.00	-16.12	-11.80
18-May-2008	12:00:00	-8.00	-6.41	-16.50	-6.82	-17.38	-13.76
18-May-2008	18:00:00	-9.64	-7.70	-18.54	-8.09	-15.54	-16.71
18-May-2008	24:00:00	-6.32	-5.01	-13.39	-4.75	-15.64	-10.81
19-May-2008	06:00:00	-6.71	-5.16	-13.36	-5.25	-16.63	-12.02
19-May-2008	12:00:00	-8.23	-5.50	-15.40	-6.58	-18.12	-14.67
19-May-2008	18:00:00	-10.40	-6.88	-19.03	-8.28	-18.46	-18.84
19-May-2008	24:00:00	-11.05	-7.90	-21.06	-8.31	-18.02	-19.68
20-May-2008	06:00:00	-11.44	-8.00	-21.30	-8.21	-18.77	-18.97
20-May-2008	12:00:00	-12.17	-8.44	-22.00	-8.91	-19.42	-20.48
20-May-2008	18:00:00	-11.45	-8.50	-23.07	-7.35	-18.76	-20.84
20-May-2008	24:00:00	-10.48	-7.47	-22.19	-6.97	-18.62	-18.91
21-May-2008	06:00:00	-10.97	-6.99	-20.75	-7.27	-19.14	-19.28
21-May-2008	12:00:00	-11.91	-6.95	-20.93	-7.99	-20.23	-20.86
21-May-2008	18:00:00	-13.63	-7.97	-22.24	-9.59	-20.54	-24.03
21-May-2008	24:00:00	-14.26	-9.02	-24.07	-9.96	-20.82	-25.06
22-May-2008	06:00:00	-14.75	-9.77	-25.18	-10.24	-21.58	-25.65
22-May-2008	12:00:00	-15.55	-10.36	-26.26	-11.17	-22.87	-26.97
22-May-2008	18:00:00	-16.70	-11.10	-27.36	-12.81	-23.38	-29.40
22-May-2008	24:00:00	-17.36	-11.90	-28.57	-12.88	-23.65	-30.46
23-May-2008	06:00:00	-17.80	-12.68	-28.45	-13.20	-24.02	-30.81
23-May-2008	12:00:00	-18.23	-12.98	-28.55	-13.86	-24.92	-31.39
23-May-2008	18:00:00	-18.73	-13.08	-28.54	-14.81	-25.28	-32.36
23-May-2008	24:00:00	-19.16	-13.72	-28.49	-15.17	-25.45	-33.09
24-May-2008	06:00:00	-19.16	-14.09	-28.43	-14.55	-25.38	-32.94
24-May-2008	12:00:00	-18.51	-13.36	-28.56	-12.87	-25.92	-31.87
24-May-2008	18:00:00	-18.74	-12.81	-28.51	-14.53	-26.20	-32.38
24-May-2008	24:00:00	-19.30	-13.28	-28.27	-15.12	-26.53	-33.26
25-May-2008	06:00:00	-19.72	-14.01	-28.38	-15.60	-26.95	-33.69
25-May-2008	12:00:00	-20.26	-14.51	-28.61	-16.35	-27.56	-34.36
25-May-2008	18:00:00	-20.59	-14.73	-28.55	-17.17	-28.00	-34.93
25-May-2008	24:00:00	-20.97	-15.24	-28.47	-17.71	-28.31	-35.32
26-May-2008	06:00:00	-21.33	-15.94	-28.44	-18.07	-28.58	-35.72
26-May-2008	12:00:00	-21.68	-16.11	-28.59	-18.34	-29.21	-36.09
26-May-2008	18:00:00	-21.82	-16.18	-28.48	-18.84	-29.68	-36.24
26-May-2008	24:00:00	-22.19	-16.73	-28.36	-19.55	-29.95	-36.84

Date	Time	Water Level (inches)					
dd-mmm-yyyy	hh:mm:ss	FLO AW1	FLO AW2	FLO AW3	FLO AW4	FLO AW5	FLO AW6
27-May-2008	06:00:00	-22.52	-17.28	-28.41	-20.21	-30.32	-37.05
27-May-2008	12:00:00	-23.05	-17.58	-28.59	-20.74	-30.77	-37.57
27-May-2008	18:00:00	-23.31	-17.72	-28.50	-21.21	-31.36	-37.78
27-May-2008	24:00:00	-23.77	-18.06	-28.45	-21.97	-31.68	-38.30
28-May-2008	06:00:00	-24.09	-18.34	-28.42	-22.33	-30.96	-38.54
28-May-2008	12:00:00	-22.60	-13.38	-10.65	-17.52	-29.68	-37.51
28-May-2008	18:00:00	-21.11	-11.79	-15.31	-15.13	-28.58	-35.86
28-May-2008	24:00:00	-20.35	-11.14	-19.30	-14.89	-27.97	-34.28
29-May-2008	06:00:00	-20.14	-10.94	-19.60	-15.28	-27.37	-33.52
29-May-2008	12:00:00	-19.95	-10.68	-23.27	-15.06	-27.94	-33.63
29-May-2008	18:00:00	-19.95	-10.40	-24.75	-16.01	-28.44	-33.69
29-May-2008	24:00:00	-20.26	-10.82	-26.02	-16.83	-28.75	-34.30
30-May-2008	06:00:00	-20.78	-11.64	-27.31	-17.70	-29.05	-34.99
30-May-2008	12:00:00	-21.07	-11.96	-28.36	-18.35	-29.98	-35.55
30-May-2008	18:00:00	-21.39	-12.15	-28.55	-18.91	-30.83	-36.03
30-May-2008	24:00:00	-21.87	-12.72	-28.49	-19.68	-30.96	-36.82
31-May-2008	06:00:00	-22.07	-13.23	-28.45	-20.10	-31.21	-37.27
31-May-2008	12:00:00	-22.47	-13.55	-28.45	-20.50	-31.62	-37.59
31-May-2008	18:00:00	-22.84	-14.00	-28.43	-21.15	-32.18	-37.89
31-May-2008	24:00:00	-23.49	-14.67	-28.32	-21.78	-32.50	-38.54
1-Jun-2008	06:00:00	-23.83	-15.40	-28.32	-22.33	-32.74	-39.06
1-Jun-2008	12:00:00	-24.26	-15.83	-28.39	-22.91	-33.19	-39.45
1-Jun-2008	18:00:00	-24.58	-16.20	-28.35	-23.37	-33.64	-39.64
1-Jun-2008	24:00:00	-21.51	-10.12	-13.53	-19.79	-33.65	-36.52
2-Jun-2008	06:00:00	-21.28	-9.59	-16.81	-19.63	-33.85	-37.02
2-Jun-2008	12:00:00	-21.58	-9.78	-19.61	-20.28	-34.36	-37.90
2-Jun-2008	18:00:00	-22.07	-10.73	-22.99	-21.04	-34.86	-38.43
2-Jun-2008	24:00:00	-22.59	-11.56	-25.51	-21.72	-35.05	-39.15
3-Jun-2008	06:00:00	-22.94	-12.33	-27.18	-22.47	-35.42	-39.58
3-Jun-2008	12:00:00	-23.51	-12.86	-28.65	-23.05	-35.71	-40.10
3-Jun-2008	18:00:00	-24.13	-13.41	-28.45	-23.56	-36.22	-40.29
3-Jun-2008	24:00:00	-24.71	-14.02	-28.47	-24.12	-36.31	-40.59
4-Jun-2008	06:00:00	-25.05	-14.76	-28.51	-24.61	-36.60	-41.01
4-Jun-2008	12:00:00	-25.69	-15.40	-28.55	-25.09	-36.97	-41.41
4-Jun-2008	18:00:00	-25.97	-16.01	-28.43	-25.36	-37.30	-41.56
4-Jun-2008	24:00:00	-26.23	-16.48	-28.24	-25.73	-37.67	-41.90
5-Jun-2008	06:00:00	-26.74	-17.34	-28.41	-26.33	-37.97	-42.39
5-Jun-2008	12:00:00	-27.23	-18.10	-28.41	-26.79	-38.29	-42.84
5-Jun-2008	18:00:00	-27.51	-18.57	-28.37	-27.18	-38.81	-43.24
5-Jun-2008	24:00:00	-27.85	-18.81	-28.30	-27.52	-39.10	-43.53
6-Jun-2008	06:00:00	-28.18	-19.28	-28.37	-27.84	-39.47	-43.83
6-Jun-2008	12:00:00	-28.54	-19.74	-28.53	-28.27	-39.68	-44.16
6-Jun-2008	18:00:00	-28.77	-20.00	-28.47	-28.47	-39.89	-44.42
6-Jun-2008	24:00:00	-28.95	-20.19	-28.33	-28.71	-40.32	-44.46
7-Jun-2008	06:00:00	-29.30	-20.56	-28.50	-29.19	-40.42	-44.77
7-Jun-2008	12:00:00	-29.31	-20.75	-28.43	-29.28	-40.70	-44.92
7-Jun-2008	18:00:00	-29.54	-21.21	-28.45	-29.53	-41.03	-45.21
7-Jun-2008	24:00:00	-29.68	-21.27	-28.32	-29.73	-41.17	-45.24
8-Jun-2008	06:00:00	-29.74	-21.46	-28.27	-29.92	-41.46	-45.36

Date	Time	Water Level (inches)					
dd-mmm-yyyy	hh:mm:ss	FLO AW1	FLO AW2	FLO AW3	FLO AW4	FLO AW5	FLO AW6
8-Jun-2008	12:00:00	-29.90	-21.80	-28.37	-30.17	-41.60	-45.67
8-Jun-2008	18:00:00	-30.09	-22.12	-28.25	-30.31	-41.96	-45.69
8-Jun-2008	24:00:00	-30.16	-22.20	-28.29	-30.61	-42.31	-45.99
9-Jun-2008	06:00:00	-30.44	-22.53	-28.37	-30.83	-42.58	-46.21
9-Jun-2008	12:00:00	-30.50	-22.79	-28.32	-31.02	-42.74	-46.57
9-Jun-2008	18:00:00	-30.63	-23.16	-28.35	-31.26	-43.21	-46.80
9-Jun-2008	24:00:00	-30.75	-23.31	-28.36	-31.48	-43.49	-47.01
10-Jun-2008	06:00:00	-31.01	-23.61	-28.39	-31.85	-43.90	-47.34
10-Jun-2008	12:00:00	-31.16	-24.04	-28.37	-32.05	-43.96	-47.55
10-Jun-2008	18:00:00	-31.07	-24.18	-28.30	-32.04	-44.35	-47.61
10-Jun-2008	24:00:00	-31.40	-24.52	-28.35	-32.43	-44.71	-48.07
11-Jun-2008	06:00:00	-31.53	-24.58	-28.37	-32.64	-45.00	-48.24
11-Jun-2008	12:00:00	-31.71	-25.02	-28.20	-33.04	-45.24	-48.57
11-Jun-2008	18:00:00	-31.88	-25.55	-28.31	-33.30	-45.18	-48.80
11-Jun-2008	24:00:00	-32.02	-25.70	-28.37	-33.57	-45.80	-49.23
12-Jun-2008	06:00:00	-32.21	-25.86	-28.48	-33.77	-46.36	-49.36
12-Jun-2008	12:00:00	-32.32	-26.26	-28.45	-33.87	-46.63	-49.66
12-Jun-2008	18:00:00	-32.47	-26.67	-28.44	-34.06	-46.82	-49.86
12-Jun-2008	24:00:00	-32.53	-26.61	-28.36	-34.33	-47.32	-50.11
13-Jun-2008	06:00:00	-32.69	-26.69	-28.49	-34.61	-47.68	-50.22
13-Jun-2008	12:00:00	-32.83	-27.27	-28.55	-34.87	-47.76	-50.52
13-Jun-2008	18:00:00	-32.99	-27.76	-28.48	-34.92	-48.05	-50.60
13-Jun-2008	24:00:00	-33.02	-27.56	-28.36	-35.11	-48.41	-50.50
14-Jun-2008	06:00:00	-33.09	-27.45	-28.50	-35.35	-48.70	-50.62
14-Jun-2008	12:00:00	-33.32	-28.08	-28.47	-35.70	-48.83	-50.70
14-Jun-2008	18:00:00	-33.35	-28.74	-28.39	-35.85	-49.12	-50.60
14-Jun-2008	24:00:00	-33.56	-28.72	-28.50	-36.21	-49.44	-50.68
15-Jun-2008	06:00:00	-33.59	-28.24	-28.54	-36.37	-49.68	-50.66
15-Jun-2008	12:00:00	-33.79	-28.11	-28.44	-36.47	-49.92	-50.72
15-Jun-2008	18:00:00	-33.82	-29.07	-28.54	-36.67	-50.16	-50.79
15-Jun-2008	24:00:00	-33.91	-28.76	-28.36	-36.91	-50.47	-50.60
16-Jun-2008	06:00:00	-34.06	-28.47	-28.47	-37.14	-50.29	-50.64
16-Jun-2008	12:00:00	-34.18	-29.16	-28.51	-37.29	-49.52	-50.79
16-Jun-2008	18:00:00	-34.35	-30.06	-28.42	-37.56	-46.79	-50.60
16-Jun-2008	24:00:00	-34.66	-29.85	-28.54	-37.83	-46.87	-50.74
17-Jun-2008	06:00:00	-34.59	-29.39	-28.49	-38.05	-46.79	-50.72
17-Jun-2008	12:00:00	-34.79	-30.34	-28.47	-38.20	-46.81	-50.55
17-Jun-2008	18:00:00	-35.12	-31.28	-28.60	-38.58	-46.66	-50.72
17-Jun-2008	24:00:00	-35.25	-30.98	-28.35	-38.77	-46.68	-50.49
18-Jun-2008	06:00:00	-35.30	-30.48	-28.37	-39.01	-46.93	-50.61
18-Jun-2008	12:00:00	-35.72	-31.96	-28.63	-39.22	-46.74	-50.71
18-Jun-2008	18:00:00	-35.98	-32.91	-28.47	-39.48	-46.70	-50.59
18-Jun-2008	24:00:00	-36.26	-32.36	-28.49	-39.87	-46.70	-50.59
19-Jun-2008	06:00:00	-36.31	-31.94	-28.47	-40.13	-46.75	-50.59
19-Jun-2008	12:00:00	-36.61	-33.34	-28.50	-40.42	-46.64	-50.71
19-Jun-2008	18:00:00	-36.99	-34.41	-28.36	-40.49	-46.81	-50.62
19-Jun-2008	24:00:00	-37.34	-33.90	-28.39	-41.03	-46.80	-50.61
20-Jun-2008	06:00:00	-37.40	-33.30	-28.37	-41.21	-46.72	-50.66
20-Jun-2008	12:00:00	-37.75	-34.71	-28.54	-41.58	-46.66	-50.70

Date	Time	Water Level (inches)					
dd-mmm-yyyy	hh:mm:ss	FLO AW1	FLO AW2	FLO AW3	FLO AW4	FLO AW5	FLO AW6
20-Jun-2008	18:00:00	-38.14	-35.81	-28.31	-41.79	-46.67	-50.50
20-Jun-2008	24:00:00	-38.38	-35.00	-28.30	-41.92	-46.57	-50.36
21-Jun-2008	06:00:00	-38.23	-34.19	-28.24	-42.07	-46.72	-50.35
21-Jun-2008	12:00:00	-38.66	-35.31	-28.48	-42.33	-46.73	-50.49
21-Jun-2008	18:00:00	-38.84	-36.40	-28.43	-42.52	-46.54	-50.38
21-Jun-2008	24:00:00	-39.02	-35.40	-28.35	-42.48	-46.62	-50.40
22-Jun-2008	06:00:00	-39.14	-34.74	-28.43	-42.81	-46.76	-50.48
22-Jun-2008	12:00:00	-39.51	-36.56	-28.44	-42.88	-46.56	-50.48
22-Jun-2008	18:00:00	-36.79	-23.94	-27.71	-41.28	-46.75	-48.32
22-Jun-2008	24:00:00	-32.78	-18.28	-28.14	-39.45	-46.67	-43.06
23-Jun-2008	06:00:00	-32.61	-19.25	-28.41	-39.58	-46.75	-45.10
23-Jun-2008	12:00:00	-32.87	-20.94	-28.50	-40.07	-46.63	-46.77
23-Jun-2008	18:00:00	-33.27	-22.37	-28.30	-40.45	-46.57	-47.71
23-Jun-2008	24:00:00	-33.57	-22.12	-28.27	-40.80	-46.56	-48.96
24-Jun-2008	06:00:00	-33.64	-22.14	-28.32	-41.15	-46.72	-49.75
24-Jun-2008	12:00:00	-34.19	-23.78	-28.47	-41.59	-46.73	-50.64
24-Jun-2008	18:00:00	-34.79	-25.31	-28.48	-42.24	-46.56	-50.64
24-Jun-2008	24:00:00	-35.01	-24.62	-28.31	-42.49	-46.60	-50.47
25-Jun-2008	06:00:00	-35.19	-24.39	-28.37	-42.75	-46.82	-50.59
25-Jun-2008	12:00:00	-35.83	-26.08	-28.49	-42.71	-46.80	-50.52
25-Jun-2008	18:00:00	-36.64	-27.68	-28.42	-43.48	-46.72	-50.60
25-Jun-2008	24:00:00	-37.04	-26.85	-28.38	-43.74	-46.82	-50.49
26-Jun-2008	06:00:00	-37.13	-26.39	-28.50	-44.04	-46.98	-50.53
26-Jun-2008	12:00:00	-37.81	-28.41	-28.61	-44.44	-46.91	-50.71
26-Jun-2008	18:00:00	-38.83	-30.22	-28.62	-44.92	-46.81	-50.58
26-Jun-2008	24:00:00	-39.26	-29.44	-28.55	-45.03	-46.74	-50.50
27-Jun-2008	06:00:00	-39.33	-28.95	-28.48	-45.25	-46.82	-50.44
27-Jun-2008	12:00:00	-40.13	-31.38	-28.63	-45.69	-46.70	-50.52
27-Jun-2008	18:00:00	-41.27	-33.04	-28.49	-46.07	-46.67	-50.40
27-Jun-2008	24:00:00	-41.43	-31.50	-28.31	-46.26	-46.72	-50.41
28-Jun-2008	06:00:00	-41.36	-31.02	-28.38	-46.57	-46.85	-50.47
28-Jun-2008	12:00:00	-42.14	-33.71	-28.62	-46.96	-46.87	-50.59
28-Jun-2008	18:00:00	-42.52	-35.88	-28.55	-47.22	-46.84	-50.60
28-Jun-2008	24:00:00	-42.45	-34.72	-28.47	-47.57	-46.81	-50.50
29-Jun-2008	06:00:00	-42.45	-33.72	-28.57	-47.94	-46.91	-50.73
29-Jun-2008	12:00:00	-42.55	-36.59	-28.62	-48.12	-46.80	-50.66
29-Jun-2008	18:00:00	-42.51	-38.70	-28.54	-48.49	-46.73	-50.64
29-Jun-2008	24:00:00	-42.45	-37.16	-28.43	-48.67	-46.70	-50.50
30-Jun-2008	06:00:00	-42.46	-35.81	-28.42	-49.00	-46.96	-50.60
30-Jun-2008	12:00:00	-42.61	-37.60	-28.59	-49.35	-46.78	-50.76
30-Jun-2008	18:00:00	-42.45	-40.14	-28.35	-49.44	-46.64	-50.47
30-Jun-2008	24:00:00	-42.37	-38.50	-28.35	-49.73	-46.73	-50.49
1-Jul-2008	06:00:00	-42.39	-37.36	-28.42	-50.05	-46.92	-50.50
1-Jul-2008	12:00:00	-42.55	-40.54	-28.62	-50.40	-46.78	-50.62
1-Jul-2008	18:00:00	-42.40	-42.96	-28.49	-50.62	-46.66	-50.48
1-Jul-2008	24:00:00	-42.26	-41.43	-28.32	-50.69	-46.58	-50.36
2-Jul-2008	06:00:00	-42.35	-39.93	-28.27	-50.94	-46.84	-50.40
2-Jul-2008	12:00:00	-42.55	-43.30	-28.51	-51.33	-46.87	-50.49
2-Jul-2008	18:00:00	-42.47	-45.98	-28.45	-51.63	-46.62	-50.53

Date	Time	Water Level (inches)					
dd-mmm-yyyy	hh:mm:ss	FLO AW1	FLO AW2	FLO AW3	FLO AW4	FLO AW5	FLO AW6
2-Jul-2008	24:00:00	-42.44	-43.96	-28.44	-51.83	-46.80	-50.38
3-Jul-2008	06:00:00	-42.45	-42.62	-28.44	-52.19	-46.80	-50.58
3-Jul-2008	12:00:00	-42.39	-46.28	-28.50	-52.25	-46.63	-50.53
3-Jul-2008	18:00:00	-42.40	-48.76	-28.32	-52.45	-46.72	-50.32
3-Jul-2008	24:00:00	-42.34	-47.22	-28.33	-52.67	-46.67	-50.52
4-Jul-2008	06:00:00	-42.29	-45.42	-28.29	-52.87	-46.93	-50.40
4-Jul-2008	12:00:00	-42.56	-49.18	-28.56	-53.25	-46.82	-50.54
4-Jul-2008	18:00:00	-42.45	-52.01	-28.45	-53.43	-46.72	-50.55
4-Jul-2008	24:00:00	-42.40	-50.18	-28.37	-53.63	-46.81	-50.43
5-Jul-2008	06:00:00	-42.45	-48.02	-28.49	-53.76	-46.88	-50.54
5-Jul-2008	12:00:00	-42.55	-49.62	-28.53	-53.99	-46.73	-50.56
5-Jul-2008	18:00:00	-42.46	-45.27	-28.48	-54.11	-46.70	-50.43
5-Jul-2008	24:00:00	-0.46	-12.15	-28.29	-54.25	-46.64	-5.50
6-Jul-2008	06:00:00	-1.77	-16.32	-28.36	-54.40	-46.84	-13.28
6-Jul-2008	12:00:00	-3.37	-19.49	-28.54	-54.46	-46.52	-18.37
6-Jul-2008	18:00:00	-1.61	-10.54	-24.61	-54.54	-42.19	-0.61
6-Jul-2008	24:00:00	1.04	-0.04	-18.54	1.05	-36.46	2.45
7-Jul-2008	06:00:00	-0.20	-3.32	-9.81	0.00	-36.32	1.34
7-Jul-2008	12:00:00	-0.81	-6.35	-12.28	-2.32	-36.89	0.18
7-Jul-2008	18:00:00	-1.12	-9.04	-16.57	-4.87	-37.91	-0.96
7-Jul-2008	24:00:00	-1.39	-9.12	-17.88	-5.43	-38.87	-2.25
8-Jul-2008	06:00:00	-1.58	-9.22	-19.49	-5.91	-39.85	-3.04
8-Jul-2008	12:00:00	-2.26	-11.58	-22.48	-7.07	-31.27	-4.41
8-Jul-2008	18:00:00	2.67	3.99	-5.45	6.17	-26.95	2.84
8-Jul-2008	24:00:00	0.20	0.20	-2.55	1.76	-28.10	1.78
9-Jul-2008	06:00:00	-0.25	-0.11	-3.78	0.51	-29.66	1.29
9-Jul-2008	12:00:00	-0.50	-0.16	-2.63	-0.03	-30.71	0.77
9-Jul-2008	18:00:00	-0.63	-0.87	-5.41	-0.61	-31.46	0.30
9-Jul-2008	24:00:00	-0.40	-0.20	-4.29	-0.65	-32.60	0.32
10-Jul-2008	06:00:00	-0.67	-0.92	-6.15	-1.14	-33.49	-0.18
10-Jul-2008	12:00:00	-0.88	-1.84	-8.69	-1.78	-34.60	-0.64
10-Jul-2008	18:00:00	-1.28	-3.51	-10.38	-3.00	-35.27	-1.75
10-Jul-2008	24:00:00	-1.30	-3.29	-13.03	-2.97	-36.18	-2.07
11-Jul-2008	06:00:00	-1.49	-3.45	-14.26	-3.29	-36.90	-2.59
11-Jul-2008	12:00:00	-1.13	-2.10	-10.07	-2.80	-37.55	-2.30
11-Jul-2008	18:00:00	-1.51	-4.86	-15.66	-4.02	-38.16	-3.42
11-Jul-2008	24:00:00	-1.60	-4.84	-17.62	-4.06	-38.75	-3.75
12-Jul-2008	06:00:00	-1.83	-5.22	-18.79	-4.25	-39.46	-4.50
12-Jul-2008	12:00:00	-2.72	-7.64	-21.40	-5.58	-39.89	-6.20
12-Jul-2008	18:00:00	-3.87	-9.83	-24.21	-6.85	-40.40	-8.91
12-Jul-2008	24:00:00	-4.18	-9.95	-25.43	-6.63	-40.94	-9.73
13-Jul-2008	06:00:00	-4.64	-10.30	-26.45	-6.81	-41.34	-10.60
13-Jul-2008	12:00:00	-6.19	-12.09	-27.99	-8.04	-41.64	-12.26
13-Jul-2008	18:00:00	-8.36	-13.55	-28.55	-9.39	-42.18	-14.74
13-Jul-2008	24:00:00	-9.15	-13.68	-28.51	-8.99	-42.68	-15.37
14-Jul-2008	06:00:00	-10.10	-14.12	-28.67	-9.19	-43.24	-16.03
14-Jul-2008	12:00:00	-11.79	-15.56	-28.78	-10.84	-43.38	-18.54
14-Jul-2008	18:00:00	-13.18	-15.71	-28.49	-10.81	-43.90	-20.76
14-Jul-2008	24:00:00	-13.73	-15.74	-28.45	-10.66	-44.26	-21.74

Date	Time	Water Level (inches)					
dd-mmm-yyyy	hh:mm:ss	FLO AW1	FLO AW2	FLO AW3	FLO AW4	FLO AW5	FLO AW6
15-Jul-2008	06:00:00	-14.43	-16.04	-28.54	-10.87	-44.84	-22.48
15-Jul-2008	12:00:00	-15.73	-17.12	-28.54	-12.53	-45.10	-24.00
15-Jul-2008	18:00:00	-17.41	-18.04	-28.44	-14.02	-45.48	-26.44
15-Jul-2008	24:00:00	-18.28	-17.86	-28.37	-13.91	-45.90	-27.99
16-Jul-2008	06:00:00	-18.91	-18.36	-28.43	-14.26	-46.56	-29.00
16-Jul-2008	12:00:00	-19.75	-19.54	-28.61	-15.64	-46.72	-30.32
16-Jul-2008	18:00:00	-20.60	-20.21	-28.43	-17.16	-46.68	-31.74
16-Jul-2008	24:00:00	-21.29	-19.92	-28.30	-17.37	-46.73	-32.76
17-Jul-2008	06:00:00	-21.77	-19.97	-28.48	-17.83	-46.88	-33.46
17-Jul-2008	12:00:00	-22.54	-21.23	-28.55	-19.17	-46.69	-34.46
17-Jul-2008	18:00:00	-22.99	-21.75	-28.39	-20.59	-46.63	-35.20
17-Jul-2008	24:00:00	-23.41	-21.17	-28.42	-21.23	-46.82	-35.82
18-Jul-2008	06:00:00	-24.01	-21.35	-28.51	-22.02	-46.85	-36.45
18-Jul-2008	12:00:00	-24.47	-22.08	-28.50	-22.69	-46.81	-37.11
18-Jul-2008	18:00:00	-24.88	-22.74	-28.45	-23.58	-46.79	-37.63
18-Jul-2008	24:00:00	-25.29	-22.31	-28.45	-24.18	-46.78	-38.24
19-Jul-2008	06:00:00	-25.55	-22.12	-28.44	-24.55	-46.80	-38.56
19-Jul-2008	12:00:00	-26.06	-23.21	-28.60	-25.32	-46.68	-39.20
19-Jul-2008	18:00:00	-26.18	-23.34	-28.51	-25.81	-46.69	-39.44
19-Jul-2008	24:00:00	-26.47	-22.97	-28.33	-26.10	-46.76	-39.87
20-Jul-2008	06:00:00	-26.69	-22.83	-28.47	-26.49	-46.87	-40.09
20-Jul-2008	12:00:00	-27.09	-24.03	-28.67	-27.13	-46.73	-40.64
20-Jul-2008	18:00:00	-27.38	-24.59	-28.51	-27.71	-46.73	-41.02
20-Jul-2008	24:00:00	-27.53	-23.92	-28.39	-28.06	-46.72	-41.35
21-Jul-2008	06:00:00	-27.81	-23.84	-28.56	-28.33	-46.78	-41.48
21-Jul-2008	12:00:00	-28.12	-24.96	-28.47	-28.79	-46.78	-42.09
21-Jul-2008	18:00:00	-28.47	-25.82	-28.53	-29.55	-46.75	-42.68
21-Jul-2008	24:00:00	-28.66	-25.30	-28.44	-29.76	-46.70	-42.96
22-Jul-2008	06:00:00	-28.83	-25.04	-28.47	-30.04	-46.85	-43.29
22-Jul-2008	12:00:00	-29.25	-26.13	-28.60	-30.67	-46.75	-43.81
22-Jul-2008	18:00:00	-29.30	-26.25	-28.42	-31.02	-46.69	-44.08
22-Jul-2008	24:00:00	-29.51	-26.00	-28.38	-31.21	-46.67	-44.38
23-Jul-2008	06:00:00	-29.78	-25.82	-28.44	-31.32	-46.99	-44.58
23-Jul-2008	12:00:00	-30.05	-27.00	-28.65	-31.96	-46.70	-45.08
23-Jul-2008	18:00:00	-22.10	-11.27	-22.25	-22.69	-46.81	-21.00
23-Jul-2008	24:00:00	-0.04	-5.09	-4.81	-10.95	-41.53	1.82
24-Jul-2008	06:00:00	-0.03	-5.38	-3.52	-3.36	-38.94	1.56
24-Jul-2008	12:00:00	-0.56	-7.13	-6.57	-3.37	-38.26	1.04
24-Jul-2008	18:00:00	-1.05	-8.91	-9.35	-4.67	-38.35	0.23
24-Jul-2008	24:00:00	-1.27	-8.80	-11.25	-4.68	-38.80	-0.26
25-Jul-2008	06:00:00	-1.46	-9.00	-12.89	-4.89	-39.46	-1.20
25-Jul-2008	12:00:00	-2.07	-10.04	-16.98	-5.91	-40.06	-2.56
25-Jul-2008	18:00:00	-2.74	-10.83	-18.13	-6.47	-40.43	-3.42
25-Jul-2008	24:00:00	-3.13	-10.90	-20.83	-6.27	-40.90	-4.11
26-Jul-2008	06:00:00	-3.55	-11.02	-22.08	-6.10	-41.45	-4.71
26-Jul-2008	12:00:00	-4.88	-12.12	-24.22	-7.32	-41.87	-6.39
26-Jul-2008	18:00:00	-7.03	-13.55	-26.88	-8.27	-42.36	-8.59
26-Jul-2008	24:00:00	-7.90	-13.71	-28.33	-7.78	-42.91	-9.20
27-Jul-2008	06:00:00	-8.69	-13.90	-28.51	-7.75	-43.30	-9.98

Date		Time		Water Level (inches)			
dd-mmm-yyyy	hh:mm:ss	FLO AW1	FLO AW2	FLO AW3	FLO AW4	FLO AW5	FLO AW6
27-Jul-2008	12:00:00	-10.29	-14.94	-28.61	-9.00	-43.70	-11.98
27-Jul-2008	18:00:00	-12.69	-16.01	-28.62	-10.14	-44.18	-14.68
27-Jul-2008	24:00:00	-13.30	-16.20	-28.51	-9.33	-44.50	-15.79
28-Jul-2008	06:00:00	-13.71	-16.38	-28.51	-9.43	-45.19	-17.30
28-Jul-2008	12:00:00	-15.05	-17.44	-28.62	-10.96	-45.42	-19.93
28-Jul-2008	18:00:00	-16.73	-18.17	-28.53	-12.15	-45.94	-23.08
28-Jul-2008	24:00:00	-17.37	-18.44	-28.53	-12.16	-46.31	-24.69
29-Jul-2008	06:00:00	-17.71	-18.50	-28.39	-11.97	-46.75	-25.26
29-Jul-2008	12:00:00	-18.38	-19.29	-28.57	-13.26	-47.02	-26.38
29-Jul-2008	18:00:00	-19.25	-20.04	-28.53	-14.61	-46.73	-28.33
29-Jul-2008	24:00:00	-19.78	-19.95	-28.35	-14.75	-46.86	-29.68
30-Jul-2008	06:00:00	-20.17	-20.14	-28.35	-14.86	-46.90	-30.46
30-Jul-2008	12:00:00	-20.73	-20.96	-28.54	-15.96	-46.79	-31.20
30-Jul-2008	18:00:00	-21.26	-21.52	-28.38	-17.31	-46.82	-32.32
30-Jul-2008	24:00:00	-21.69	-21.32	-28.37	-17.76	-46.80	-33.33
31-Jul-2008	06:00:00	-22.11	-21.53	-28.48	-18.39		-33.76
31-Jul-2008	12:00:00						
31-Jul-2008	18:00:00						
31-Jul-2008	24:00:00						

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Ambient	FLO RAW1	FLO RAW2	FLO RAW3	CG1	CG2
1-Jan-2008	06:00:00						
1-Jan-2008	12:00:00						
1-Jan-2008	18:00:00						
1-Jan-2008	24:00:00						
2-Jan-2008	06:00:00						
2-Jan-2008	12:00:00						
2-Jan-2008	18:00:00						
2-Jan-2008	24:00:00						
3-Jan-2008	06:00:00						
3-Jan-2008	12:00:00						
3-Jan-2008	18:00:00						
3-Jan-2008	24:00:00						
4-Jan-2008	06:00:00						
4-Jan-2008	12:00:00						
4-Jan-2008	18:00:00						
4-Jan-2008	24:00:00						
5-Jan-2008	06:00:00						
5-Jan-2008	12:00:00						
5-Jan-2008	18:00:00						
5-Jan-2008	24:00:00						
6-Jan-2008	06:00:00						
6-Jan-2008	12:00:00						
6-Jan-2008	18:00:00						
6-Jan-2008	24:00:00						
7-Jan-2008	06:00:00						
7-Jan-2008	12:00:00						
7-Jan-2008	18:00:00						
7-Jan-2008	24:00:00						
8-Jan-2008	06:00:00						
8-Jan-2008	12:00:00						
8-Jan-2008	18:00:00						
8-Jan-2008	24:00:00						
9-Jan-2008	06:00:00						
9-Jan-2008	12:00:00						
9-Jan-2008	18:00:00						
9-Jan-2008	24:00:00						
10-Jan-2008	06:00:00						
10-Jan-2008	12:00:00						
10-Jan-2008	18:00:00						
10-Jan-2008	24:00:00						
11-Jan-2008	06:00:00						
11-Jan-2008	12:00:00						
11-Jan-2008	18:00:00						
11-Jan-2008	24:00:00						
12-Jan-2008	06:00:00						
12-Jan-2008	12:00:00						
12-Jan-2008	18:00:00						
12-Jan-2008	24:00:00						
13-Jan-2008	06:00:00						

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Ambient	FLO RAW1	FLO RAW2	FLO RAW3	CG1	CG2
13-Jan-2008	12:00:00						
13-Jan-2008	18:00:00						
13-Jan-2008	24:00:00						
14-Jan-2008	06:00:00						
14-Jan-2008	12:00:00						
14-Jan-2008	18:00:00						
14-Jan-2008	24:00:00						
15-Jan-2008	06:00:00						
15-Jan-2008	12:00:00						
15-Jan-2008	18:00:00						
15-Jan-2008	24:00:00						
16-Jan-2008	06:00:00						
16-Jan-2008	12:00:00						
16-Jan-2008	18:00:00						
16-Jan-2008	24:00:00						
17-Jan-2008	06:00:00						
17-Jan-2008	12:00:00						
17-Jan-2008	18:00:00						
17-Jan-2008	24:00:00						
18-Jan-2008	06:00:00						
18-Jan-2008	12:00:00						
18-Jan-2008	18:00:00						
18-Jan-2008	24:00:00						
19-Jan-2008	06:00:00						
19-Jan-2008	12:00:00						
19-Jan-2008	18:00:00						
19-Jan-2008	24:00:00						
20-Jan-2008	06:00:00						
20-Jan-2008	12:00:00						
20-Jan-2008	18:00:00						
20-Jan-2008	24:00:00						
21-Jan-2008	06:00:00						
21-Jan-2008	12:00:00						
21-Jan-2008	18:00:00						
21-Jan-2008	24:00:00						
22-Jan-2008	06:00:00						
22-Jan-2008	12:00:00						
22-Jan-2008	18:00:00						
22-Jan-2008	24:00:00						
23-Jan-2008	06:00:00						
23-Jan-2008	12:00:00						
23-Jan-2008	18:00:00						
23-Jan-2008	24:00:00						
24-Jan-2008	06:00:00						
24-Jan-2008	12:00:00						
24-Jan-2008	18:00:00						
24-Jan-2008	24:00:00						
25-Jan-2008	06:00:00						
25-Jan-2008	12:00:00						

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Ambient	FLO RAW1	FLO RAW2	FLO RAW3	CG1	CG2
25-Jan-2008	18:00:00						
25-Jan-2008	24:00:00						
26-Jan-2008	06:00:00						
26-Jan-2008	12:00:00						
26-Jan-2008	18:00:00						
26-Jan-2008	24:00:00						
27-Jan-2008	06:00:00						
27-Jan-2008	12:00:00						
27-Jan-2008	18:00:00						
27-Jan-2008	24:00:00						
28-Jan-2008	06:00:00						
28-Jan-2008	12:00:00						
28-Jan-2008	18:00:00						
28-Jan-2008	24:00:00						
29-Jan-2008	06:00:00						
29-Jan-2008	12:00:00						
29-Jan-2008	18:00:00						
29-Jan-2008	24:00:00						
30-Jan-2008	06:00:00						
30-Jan-2008	12:00:00						
30-Jan-2008	18:00:00						
30-Jan-2008	24:00:00						
31-Jan-2008	06:00:00						
31-Jan-2008	12:00:00						
31-Jan-2008	18:00:00						
31-Jan-2008	24:00:00						
1-Feb-2008	06:00:00						
1-Feb-2008	12:00:00						
1-Feb-2008	18:00:00						
1-Feb-2008	24:00:00						
2-Feb-2008	06:00:00						
2-Feb-2008	12:00:00						
2-Feb-2008	18:00:00						
2-Feb-2008	24:00:00						
3-Feb-2008	06:00:00						
3-Feb-2008	12:00:00						
3-Feb-2008	18:00:00						
3-Feb-2008	24:00:00						
4-Feb-2008	06:00:00						
4-Feb-2008	12:00:00						
4-Feb-2008	18:00:00						
4-Feb-2008	24:00:00						
5-Feb-2008	06:00:00						
5-Feb-2008	12:00:00						
5-Feb-2008	18:00:00						
5-Feb-2008	24:00:00						
6-Feb-2008	06:00:00						
6-Feb-2008	12:00:00						
6-Feb-2008	18:00:00						

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Ambient	FLO RAW1	FLO RAW2	FLO RAW3	CG1	CG2
6-Feb-2008	24:00:00						
7-Feb-2008	06:00:00						
7-Feb-2008	12:00:00						
7-Feb-2008	18:00:00						
7-Feb-2008	24:00:00						
8-Feb-2008	06:00:00						
8-Feb-2008	12:00:00						
8-Feb-2008	18:00:00						
8-Feb-2008	24:00:00						
9-Feb-2008	06:00:00						
9-Feb-2008	12:00:00						
9-Feb-2008	18:00:00						
9-Feb-2008	24:00:00						
10-Feb-2008	06:00:00						
10-Feb-2008	12:00:00						
10-Feb-2008	18:00:00						
10-Feb-2008	24:00:00						
11-Feb-2008	06:00:00						
11-Feb-2008	12:00:00						
11-Feb-2008	18:00:00						
11-Feb-2008	24:00:00						
12-Feb-2008	06:00:00						
12-Feb-2008	12:00:00						
12-Feb-2008	18:00:00						
12-Feb-2008	24:00:00						
13-Feb-2008	06:00:00						
13-Feb-2008	12:00:00						
13-Feb-2008	18:00:00						
13-Feb-2008	24:00:00						
14-Feb-2008	06:00:00						
14-Feb-2008	12:00:00						
14-Feb-2008	18:00:00						
14-Feb-2008	24:00:00						
15-Feb-2008	06:00:00						
15-Feb-2008	12:00:00						
15-Feb-2008	18:00:00						
15-Feb-2008	24:00:00						
16-Feb-2008	06:00:00						
16-Feb-2008	12:00:00						
16-Feb-2008	18:00:00						
16-Feb-2008	24:00:00						
17-Feb-2008	06:00:00						
17-Feb-2008	12:00:00						
17-Feb-2008	18:00:00						
17-Feb-2008	24:00:00						
18-Feb-2008	06:00:00						
18-Feb-2008	12:00:00						
18-Feb-2008	18:00:00						
18-Feb-2008	24:00:00						

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Ambient	FLO RAW1	FLO RAW2	FLO RAW3	CG1	CG2
19-Feb-2008	06:00:00						
19-Feb-2008	12:00:00						
19-Feb-2008	18:00:00						
19-Feb-2008	24:00:00						
20-Feb-2008	06:00:00						
20-Feb-2008	12:00:00						
20-Feb-2008	18:00:00						
20-Feb-2008	24:00:00						
21-Feb-2008	06:00:00						
21-Feb-2008	12:00:00						
21-Feb-2008	18:00:00						
21-Feb-2008	24:00:00						
22-Feb-2008	06:00:00						
22-Feb-2008	12:00:00						
22-Feb-2008	18:00:00						
22-Feb-2008	24:00:00						
23-Feb-2008	06:00:00						
23-Feb-2008	12:00:00						
23-Feb-2008	18:00:00						
23-Feb-2008	24:00:00						
24-Feb-2008	06:00:00						
24-Feb-2008	12:00:00						
24-Feb-2008	18:00:00						
24-Feb-2008	24:00:00						
25-Feb-2008	06:00:00						
25-Feb-2008	12:00:00						
25-Feb-2008	18:00:00						
25-Feb-2008	24:00:00						
26-Feb-2008	06:00:00						
26-Feb-2008	12:00:00						
26-Feb-2008	18:00:00						
26-Feb-2008	24:00:00						
27-Feb-2008	06:00:00						
27-Feb-2008	12:00:00						
27-Feb-2008	18:00:00						
27-Feb-2008	24:00:00						
28-Feb-2008	06:00:00						
28-Feb-2008	12:00:00				-47.44		
28-Feb-2008	18:00:00				-47.25		
28-Feb-2008	24:00:00				-47.03		
29-Feb-2008	06:00:00				-46.83		
29-Feb-2008	12:00:00				-46.83		
29-Feb-2008	18:00:00				-47.23		
29-Feb-2008	24:00:00				-47.21		
1-Mar-2008	06:00:00				-47.16		
1-Mar-2008	12:00:00				-47.16		
1-Mar-2008	18:00:00				-47.17		
1-Mar-2008	24:00:00				-47.04		
2-Mar-2008	06:00:00				-47.15		

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Ambient	FLO RAW1	FLO RAW2	FLO RAW3	CG1	CG2
2-Mar-2008	12:00:00				-47.09		
2-Mar-2008	18:00:00				-47.33		
2-Mar-2008	24:00:00				-47.16		
3-Mar-2008	06:00:00				-47.14		
3-Mar-2008	12:00:00				-47.20		
3-Mar-2008	18:00:00				-47.33		
3-Mar-2008	24:00:00				-47.23		
4-Mar-2008	06:00:00				-47.23		
4-Mar-2008	12:00:00				-47.29		
4-Mar-2008	18:00:00				-47.26		
4-Mar-2008	24:00:00				-47.17		
5-Mar-2008	06:00:00				-47.32		
5-Mar-2008	12:00:00		1.82	-11.27	-47.32		
5-Mar-2008	18:00:00		0.47	0.33	-40.81		
5-Mar-2008	24:00:00		0.01	-0.89	-43.53		
6-Mar-2008	06:00:00		0.05	-2.46	-46.05		
6-Mar-2008	12:00:00		0.07	-3.99	-47.32		
6-Mar-2008	18:00:00		0.01	-5.25	-47.38		
6-Mar-2008	24:00:00		0.07	-6.40	-47.15		
7-Mar-2008	06:00:00		-0.14	-8.76	-47.35		
7-Mar-2008	12:00:00		-0.03	-10.83	-47.26		
7-Mar-2008	18:00:00		0.02	-12.57	-47.34		
7-Mar-2008	24:00:00		2.44	-0.82	-42.93		
8-Mar-2008	06:00:00		2.59	1.34	-36.01		
8-Mar-2008	12:00:00		2.21	1.28	-31.24		
8-Mar-2008	18:00:00		2.21	1.39	-29.39		
8-Mar-2008	24:00:00		1.82	1.31	-30.06		
9-Mar-2008	06:00:00		1.33	0.65	-31.93		
9-Mar-2008	12:00:00		1.25	0.27	-31.99		
9-Mar-2008	18:00:00		0.80	-0.46	-33.03		
9-Mar-2008	24:00:00		0.80	-0.69	-33.40		
10-Mar-2008	06:00:00		0.76	-0.81	-36.34		
10-Mar-2008	12:00:00		0.62	-1.09	-39.01		
10-Mar-2008	18:00:00		0.33	-1.63	-41.80		
10-Mar-2008	24:00:00		0.45	-1.67	-42.90		
11-Mar-2008	06:00:00		0.37	-1.75	-44.87		
11-Mar-2008	12:00:00		0.37	-1.90	-47.32		
11-Mar-2008	18:00:00		0.16	-2.21	-47.52		
11-Mar-2008	24:00:00		0.26	-2.22	-47.49		
12-Mar-2008	06:00:00		0.23	-2.33	-47.39		
12-Mar-2008	12:00:00		0.20	-2.45	-47.35		
12-Mar-2008	18:00:00		-0.29	-2.92	-47.58		
12-Mar-2008	24:00:00		-0.28	-2.95	-47.50		
13-Mar-2008	06:00:00		-0.40	-3.41	-47.40		
13-Mar-2008	12:00:00		-0.49	-3.73	-47.47		
13-Mar-2008	18:00:00		-0.67	-4.11	-47.57		
13-Mar-2008	24:00:00		-0.52	-4.06	-47.40		
14-Mar-2008	06:00:00		-0.68	-4.36	-47.39		
14-Mar-2008	12:00:00		-0.68	-4.60	-47.31		

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Ambient	FLO RAW1	FLO RAW2	FLO RAW3	CG1	CG2
14-Mar-2008	18:00:00		-0.79	-4.81	-47.47		
14-Mar-2008	24:00:00		-0.75	-4.90	-47.40		
15-Mar-2008	06:00:00		-0.69	-5.07	-47.26		
15-Mar-2008	12:00:00		-1.01	-5.41	-47.34		
15-Mar-2008	18:00:00		-1.24	-6.10	-47.52		
15-Mar-2008	24:00:00		-1.09	-6.10	-47.33		
16-Mar-2008	06:00:00		1.01	-0.55	-47.22		
16-Mar-2008	12:00:00		0.83	-0.94	-47.39		
16-Mar-2008	18:00:00		0.45	-1.38	-47.41		
16-Mar-2008	24:00:00		0.34	-1.59	-47.44		
17-Mar-2008	06:00:00		0.23	-1.74	-47.37		
17-Mar-2008	12:00:00		0.22	-1.92	-47.33		
17-Mar-2008	18:00:00		-0.04	-2.44	-47.50		
17-Mar-2008	24:00:00		0.03	-2.43	-47.39		
18-Mar-2008	06:00:00		0.09	-2.63	-47.21		
18-Mar-2008	12:00:00		0.19	-2.70	-47.15		
18-Mar-2008	18:00:00		-0.11	-3.10	-47.41		
18-Mar-2008	24:00:00		-0.01	-2.94	-47.23		
19-Mar-2008	06:00:00		0.02	-2.95	-47.26		
19-Mar-2008	12:00:00		0.04	-2.97	-47.34		
19-Mar-2008	18:00:00		-0.09	-3.00	-47.39		
19-Mar-2008	24:00:00		-0.02	-2.88	-47.38		
20-Mar-2008	06:00:00		0.47	-1.74	-47.22		
20-Mar-2008	12:00:00		0.25	-2.23	-47.37		
20-Mar-2008	18:00:00		-0.19	-3.04	-47.49		
20-Mar-2008	24:00:00		-0.31	-3.42	-47.35		
21-Mar-2008	06:00:00		-0.45	-3.85	-47.32		
21-Mar-2008	12:00:00		-0.63	-4.33	-47.25		
21-Mar-2008	18:00:00		-0.89	-4.87	-47.55		
21-Mar-2008	24:00:00		-0.80	-4.77	-47.31		
22-Mar-2008	06:00:00		-0.87	-4.99	-47.26		
22-Mar-2008	12:00:00		-0.92	-5.19	-47.39		
22-Mar-2008	18:00:00		-0.98	-5.29	-47.38		
22-Mar-2008	24:00:00		-0.93	-5.39	-47.31		
23-Mar-2008	06:00:00		-1.19	-5.94	-47.26		
23-Mar-2008	12:00:00		-1.30	-6.52	-47.19		
23-Mar-2008	18:00:00		-1.63	-7.25	-47.43		
23-Mar-2008	24:00:00		-1.54	-7.47	-47.23		
24-Mar-2008	06:00:00		-1.67	-7.90	-47.22	0.92	1.18
24-Mar-2008	12:00:00		-1.70	-8.15	-47.13		
24-Mar-2008	18:00:00		-3.10	-37.37	-49.24		
24-Mar-2008	24:00:00		-3.91	-10.35	-48.99		
25-Mar-2008	06:00:00		-4.07	-10.91	-48.85		
25-Mar-2008	12:00:00		-4.29	-11.35	-48.76		
25-Mar-2008	18:00:00		-4.70	-12.37	-49.12		
25-Mar-2008	24:00:00		-4.58	-12.22	-48.89		
26-Mar-2008	06:00:00		-4.70	-12.57	-48.89		
26-Mar-2008	12:00:00		-4.84	-12.89	-49.03		
26-Mar-2008	18:00:00		-4.99	-13.06	-49.06		

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Ambient	FLO RAW1	FLO RAW2	FLO RAW3	CG1	CG2
26-Mar-2008	24:00:00		-4.90	-12.76	-48.85		
27-Mar-2008	06:00:00		-5.12	-13.21	-48.90		
27-Mar-2008	12:00:00		-5.17	-13.43	-48.83		
27-Mar-2008	18:00:00		-5.42	-13.86	-48.95		
27-Mar-2008	24:00:00		-5.30	-13.45	-48.84		
28-Mar-2008	06:00:00		-5.42	-13.84	-48.93		
28-Mar-2008	12:00:00		-5.59	-14.15	-48.89		
28-Mar-2008	18:00:00		-5.73	-14.34	-48.95		
28-Mar-2008	24:00:00		-5.73	-14.43	-48.88		
29-Mar-2008	06:00:00		-4.94	-14.63	-48.90		
29-Mar-2008	12:00:00		-5.29	-13.91	-48.78		
29-Mar-2008	18:00:00		-5.12	-14.46	-48.81		
29-Mar-2008	24:00:00		-5.26	-13.75	-48.87		
30-Mar-2008	06:00:00		-5.56	-14.43	-48.84		
30-Mar-2008	12:00:00		-5.96	-14.94	-48.89		
30-Mar-2008	18:00:00		-5.72	-15.05	-49.07		
30-Mar-2008	24:00:00		-3.58	-9.05	-48.83		
31-Mar-2008	06:00:00		-3.44	-8.39	-48.85		
31-Mar-2008	12:00:00		-3.53	-8.59	-48.91		
31-Mar-2008	18:00:00		-3.62	-8.93	-49.00		
31-Mar-2008	24:00:00		-3.62	-8.93	-48.96		
1-Apr-2008	06:00:00		-3.49	-9.09	-48.89		
1-Apr-2008	12:00:00		-3.63	-9.22	-48.90		
1-Apr-2008	18:00:00		-2.45	-4.17	-48.97		
1-Apr-2008	24:00:00		-1.96	-3.39	-48.73		
2-Apr-2008	06:00:00		-1.90	-3.94	-47.02		
2-Apr-2008	12:00:00		-2.00	-4.39	-44.35		
2-Apr-2008	18:00:00		-2.56	-5.52	-43.13		
2-Apr-2008	24:00:00		-2.56	-5.76	-40.84		
3-Apr-2008	06:00:00		-2.69	-6.27	-39.67		
3-Apr-2008	12:00:00		-2.91	-6.81	-38.37		
3-Apr-2008	18:00:00		-3.08	-7.11	-37.15		
3-Apr-2008	24:00:00		-3.09	-7.21	-35.31		
4-Apr-2008	06:00:00		-2.14	-3.28	-33.49		
4-Apr-2008	12:00:00		-1.71	-3.10	-30.45		
4-Apr-2008	18:00:00		-1.85	-3.42	-25.84		
4-Apr-2008	24:00:00		-1.73	-3.42	-22.57		
5-Apr-2008	06:00:00		-1.78	-3.60	-21.58		
5-Apr-2008	12:00:00		-1.00	-1.66	-17.76		
5-Apr-2008	18:00:00		-0.87	-1.50	-11.49		
5-Apr-2008	24:00:00		-0.01	-0.10	-5.63		
6-Apr-2008	06:00:00		0.55	0.42	-4.57		
6-Apr-2008	12:00:00		0.73	0.65	-3.18		
6-Apr-2008	18:00:00		0.51	0.30	-2.93		
6-Apr-2008	24:00:00		0.32	-0.03	-2.41		
7-Apr-2008	06:00:00		0.19	-0.30	-0.91		
7-Apr-2008	12:00:00		0.15	-0.47	0.14		
7-Apr-2008	18:00:00		-0.14	-0.76	0.23		
7-Apr-2008	24:00:00		-0.27	-0.93	0.51		

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Ambient	FLO RAW1	FLO RAW2	FLO RAW3	CG1	CG2
8-Apr-2008	06:00:00		-0.46	-1.06	0.66		
8-Apr-2008	12:00:00		-0.49	-1.23	0.80		
8-Apr-2008	18:00:00		-0.68	-1.55	0.56		
8-Apr-2008	24:00:00		-0.69	-1.53	0.73		
9-Apr-2008	06:00:00		-0.92	-1.72	0.71		
9-Apr-2008	12:00:00		-0.92	-1.67	0.65		
9-Apr-2008	18:00:00		-0.98	-1.91	0.72		
9-Apr-2008	24:00:00		-0.99	-1.86	0.74		
10-Apr-2008	06:00:00		-1.07	-1.95	0.57		
10-Apr-2008	12:00:00		-1.09	-1.97	0.69		
10-Apr-2008	18:00:00		-1.27	-2.26	0.59		
10-Apr-2008	24:00:00		-1.29	-2.17	0.55		
11-Apr-2008	06:00:00		-1.23	-2.16	0.61		
11-Apr-2008	12:00:00		-1.34	-2.28	0.50		
11-Apr-2008	18:00:00		-1.45	-2.45	0.47		
11-Apr-2008	24:00:00		-1.42	-2.44	0.60		
12-Apr-2008	06:00:00		-1.47	-2.41	0.55		
12-Apr-2008	12:00:00		-1.49	-2.43	0.48		
12-Apr-2008	18:00:00		-1.57	-2.71	0.39		
12-Apr-2008	24:00:00		-1.18	-1.73	0.98		
13-Apr-2008	06:00:00		-1.21	-1.92	0.80		
13-Apr-2008	12:00:00		-1.30	-2.05	0.62		
13-Apr-2008	18:00:00		-1.48	-2.31	0.36		
13-Apr-2008	24:00:00		-1.60	-2.35	0.32		
14-Apr-2008	06:00:00		-1.73	-2.53	-0.01		
14-Apr-2008	12:00:00		-1.67	-2.65	-0.07		
14-Apr-2008	18:00:00		-1.97	-3.03	-0.17		
14-Apr-2008	24:00:00		-2.01	-2.86	-0.11		
15-Apr-2008	06:00:00		-1.99	-2.98	-0.12		
15-Apr-2008	12:00:00		-1.96	-3.01	-0.17		
15-Apr-2008	18:00:00		-2.35	-3.40	-0.66		
15-Apr-2008	24:00:00		-2.37	-3.51	-0.71		
16-Apr-2008	06:00:00		-2.43	-3.59	-0.87		
16-Apr-2008	12:00:00		-2.54	-3.69	-1.01		
16-Apr-2008	18:00:00		-2.83	-4.05	-1.30		
16-Apr-2008	24:00:00		-2.86	-4.12	-1.35		
17-Apr-2008	06:00:00		-2.86	-4.20	-1.56		
17-Apr-2008	12:00:00		-2.93	-4.26	-1.68		
17-Apr-2008	18:00:00		-3.23	-4.67	-1.98		
17-Apr-2008	24:00:00		-3.29	-4.83	-2.14		
18-Apr-2008	06:00:00		-3.34	-4.90	-2.44		
18-Apr-2008	12:00:00		-3.31	-4.95	-2.47		
18-Apr-2008	18:00:00		-3.71	-5.44	-2.98		
18-Apr-2008	24:00:00		-3.86	-5.89	-3.51		
19-Apr-2008	06:00:00		-4.06	-6.12	-3.83		
19-Apr-2008	12:00:00		-4.12	-6.17	-4.09		
19-Apr-2008	18:00:00		-4.39	-6.69	-4.84		
19-Apr-2008	24:00:00		-4.54	-7.19	-5.50		
20-Apr-2008	06:00:00		-4.76	-7.60	-5.75		

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Ambient	FLO RAW1	FLO RAW2	FLO RAW3	CG1	CG2
20-Apr-2008	12:00:00		-4.78	-7.63	-6.05		
20-Apr-2008	18:00:00		-2.77	-3.06	-1.47		
20-Apr-2008	24:00:00		-2.89	-3.61	-2.09		
21-Apr-2008	06:00:00		-1.25	-0.17	0.77		
21-Apr-2008	12:00:00		0.22	0.45	1.59		
21-Apr-2008	18:00:00		0.31	0.14	1.77		
21-Apr-2008	24:00:00		0.16	-0.19	1.87		
22-Apr-2008	06:00:00		0.04	-0.15	2.00		
22-Apr-2008	12:00:00		0.41	0.09	2.11		
22-Apr-2008	18:00:00		0.74	0.66	2.41		
22-Apr-2008	24:00:00		0.74	0.35	2.24		
23-Apr-2008	06:00:00		0.65	0.05	2.21		
23-Apr-2008	12:00:00		0.38	-0.27	2.06		
23-Apr-2008	18:00:00		0.04	-0.49	1.73		
23-Apr-2008	24:00:00		-0.27	-0.77	1.57		
24-Apr-2008	06:00:00		-0.29	-1.07	1.55	0	0
24-Apr-2008	12:00:00		-0.40	-1.15	1.49		
24-Apr-2008	18:00:00		-0.56	-1.84	1.04		
24-Apr-2008	24:00:00		-0.73	-1.98	0.98		
25-Apr-2008	06:00:00		-0.75	-2.07	1.04		
25-Apr-2008	12:00:00		-0.75	-2.09	1.04		
25-Apr-2008	18:00:00		-1.13	-2.64	0.49		
25-Apr-2008	24:00:00		-1.40	-2.93	0.30		
26-Apr-2008	06:00:00		-1.30	-2.86	0.39		
26-Apr-2008	12:00:00		-1.42	-3.07	0.39		
26-Apr-2008	18:00:00		-1.71	-3.47	-0.11		
26-Apr-2008	24:00:00		-2.08	-3.84	-0.54		
27-Apr-2008	06:00:00		-2.30	-3.99	-0.58		
27-Apr-2008	12:00:00		-2.06	-3.99	-0.51		
27-Apr-2008	18:00:00		-2.41	-4.39	-1.09		
27-Apr-2008	24:00:00		-2.48	-4.59	-1.09		
28-Apr-2008	06:00:00		-2.35	-3.72	-0.52		
28-Apr-2008	12:00:00		-1.94	-3.69	-0.36		
28-Apr-2008	18:00:00		-1.95	-2.83	0.05		
28-Apr-2008	24:00:00		-1.64	-1.97	0.21		
29-Apr-2008	06:00:00		-1.07	-1.95	0.57		
29-Apr-2008	12:00:00		-1.12	-2.44	0.49		
29-Apr-2008	18:00:00		-1.60	-3.05	-0.28		
29-Apr-2008	24:00:00		-1.93	-3.35	-0.85		
30-Apr-2008	06:00:00		-1.91	-3.47	-0.78		
30-Apr-2008	12:00:00		-2.20	-3.61	-0.85		
30-Apr-2008	18:00:00		-2.54	-4.19	-1.60		
30-Apr-2008	24:00:00		-2.89	-4.78	-2.08		
1-May-2008	06:00:00		-2.78	-4.87	-2.01		
1-May-2008	12:00:00		-2.96	-5.03	-1.92		
1-May-2008	18:00:00		-3.44	-5.65	-2.87		
1-May-2008	24:00:00		-3.87	-6.40	-3.53		
2-May-2008	06:00:00		-3.97	-6.72	-3.54		
2-May-2008	12:00:00		-4.01	-6.89	-3.54		

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Ambient	FLO RAW1	FLO RAW2	FLO RAW3	CG1	CG2
2-May-2008	18:00:00		-4.58	-7.62	-4.84		
2-May-2008	24:00:00		-5.42	-9.01	-6.57		
3-May-2008	06:00:00		-5.69	-9.88	-6.66		
3-May-2008	12:00:00		-5.75	-10.21	-6.73		
3-May-2008	18:00:00		-6.46	-11.28	-8.91		
3-May-2008	24:00:00		-7.81	-13.19	-11.69		
4-May-2008	06:00:00		-8.38	-14.41	-11.98		
4-May-2008	12:00:00		-8.27	-14.70	-11.99		
4-May-2008	18:00:00		-9.14	-15.55	-13.78		
4-May-2008	24:00:00		-10.28	-16.55	-15.94		
5-May-2008	06:00:00		-11.02	-17.37	-16.47		
5-May-2008	12:00:00		-11.32	-17.68	-16.39		
5-May-2008	18:00:00		-12.09	-18.31	-17.41		
5-May-2008	24:00:00		-13.22	-19.07	-18.85		
6-May-2008	06:00:00		-13.76	-19.55	-19.09		
6-May-2008	12:00:00		-14.17	-20.07	-19.09		
6-May-2008	18:00:00		-14.87	-20.43	-20.07		
6-May-2008	24:00:00		-16.47	-21.24	-22.91		
7-May-2008	06:00:00		-17.17	-21.99	-24.66		
7-May-2008	12:00:00		-17.48	-22.45	-24.39		
7-May-2008	18:00:00		-18.17	-23.15	-25.47		
7-May-2008	24:00:00		-19.82	-24.19	-29.26		
8-May-2008	06:00:00		-21.01	-24.96	-30.78		
8-May-2008	12:00:00		-21.39	-25.53	-30.63		
8-May-2008	18:00:00		-21.82	-26.08	-30.61		
8-May-2008	24:00:00		-21.95	-26.52	-29.99		
9-May-2008	06:00:00		-21.82	-26.63	-29.11		
9-May-2008	12:00:00		-21.50	-26.68	-28.09		
9-May-2008	18:00:00		-21.53	-26.73	-27.55		
9-May-2008	24:00:00		-23.13	-27.42	-31.31		
10-May-2008	06:00:00		-24.21	-28.08	-33.24		
10-May-2008	12:00:00		-24.69	-28.60	-33.55		
10-May-2008	18:00:00		-25.30	-29.11	-34.13		
10-May-2008	24:00:00		-26.66	-30.03	-37.39		
11-May-2008	06:00:00		-27.76	-30.90	-39.34		
11-May-2008	12:00:00		-28.29	-31.31	-38.95		
11-May-2008	18:00:00		-28.45	-31.93	-38.20		
11-May-2008	24:00:00		-27.61	-31.75	-35.26		
12-May-2008	06:00:00		-23.00	-21.41	-32.85		
12-May-2008	12:00:00		-19.57	-21.53	-27.96		
12-May-2008	18:00:00		-18.55	-22.06	-26.68		
12-May-2008	24:00:00		-19.49	-23.22	-28.33		
13-May-2008	06:00:00		-20.45	-24.27	-29.61		
13-May-2008	12:00:00		-20.92	-24.96	-29.45		
13-May-2008	18:00:00		-22.06	-25.98	-30.29		
13-May-2008	24:00:00		-23.36	-26.89	-32.34		
14-May-2008	06:00:00		-24.10	-27.55	-33.79		
14-May-2008	12:00:00		-24.50	-28.20	-33.70		
14-May-2008	18:00:00		-25.25	-29.15	-34.57		

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Ambient	FLO RAW1	FLO RAW2	FLO RAW3	CG1	CG2
14-May-2008	24:00:00		-26.37	-29.82	-37.00		
15-May-2008	06:00:00		-27.45	-30.66	-38.28		
15-May-2008	12:00:00		-27.88	-31.24	-38.15		
15-May-2008	18:00:00		-28.51	-31.98	-38.65		
15-May-2008	24:00:00		-29.79	-33.10	-40.86		
16-May-2008	06:00:00		-30.56	-33.75	-41.63		
16-May-2008	12:00:00		-30.80	-34.21	-40.93		
16-May-2008	18:00:00		-30.58	-34.51	-39.93		
16-May-2008	24:00:00		-30.94	-34.90	-41.17		
17-May-2008	06:00:00		-31.99	-33.05	-42.79		
17-May-2008	12:00:00		-32.33	-33.11	-43.38		
17-May-2008	18:00:00		-32.91	-34.17	-44.19		
17-May-2008	24:00:00		-33.13	-35.61	-46.37		
18-May-2008	06:00:00		-32.93	-36.24	-47.58		
18-May-2008	12:00:00		-33.15	-36.96	-47.26		
18-May-2008	18:00:00		-33.23	-37.07	-47.57		
18-May-2008	24:00:00		-32.99	-36.97	-49.31		
19-May-2008	06:00:00		-32.98	-36.94	-49.38		
19-May-2008	12:00:00		-32.92	-36.91	-49.44		
19-May-2008	18:00:00		-33.11	-37.03	-49.50		
19-May-2008	24:00:00		-33.04	-36.97	-49.36		
20-May-2008	06:00:00		-32.85	-36.87	-49.41		
20-May-2008	12:00:00		-32.90	-36.93	-49.38		
20-May-2008	18:00:00		-33.07	-37.18	-49.51		
20-May-2008	24:00:00		-32.92	-36.96	-49.29		
21-May-2008	06:00:00		-33.08	-36.97	-49.39		
21-May-2008	12:00:00		-33.08	-36.91	-49.31		
21-May-2008	18:00:00		-33.11	-37.01	-49.51		
21-May-2008	24:00:00		-33.09	-37.02	-49.41		
22-May-2008	06:00:00		-32.92	-36.91	-49.27		
22-May-2008	12:00:00		-32.68	-36.77	-49.29		
22-May-2008	18:00:00		-33.02	-37.14	-49.53		
22-May-2008	24:00:00		-32.86	-36.90	-49.42		
23-May-2008	06:00:00		-32.78	-37.00	-49.32		
23-May-2008	12:00:00		-32.79	-36.99	-49.42		
23-May-2008	18:00:00		-32.84	-37.08	-49.45		
23-May-2008	24:00:00		-32.89	-36.93	-49.35		
24-May-2008	06:00:00		-32.71	-36.97	-49.33		
24-May-2008	12:00:00		-32.67	-36.91	-49.30		
24-May-2008	18:00:00		-32.85	-37.09	-49.39		
24-May-2008	24:00:00		-32.79	-37.05	-49.37		
25-May-2008	06:00:00		-32.59	-36.77	-49.21		
25-May-2008	12:00:00		-32.60	-36.91	-49.26		
25-May-2008	18:00:00		-32.81	-37.12	-49.39		
25-May-2008	24:00:00		-32.80	-37.14	-49.35		
26-May-2008	06:00:00		-32.53	-36.88	-49.24		
26-May-2008	12:00:00		-32.60	-36.96	-49.18		
26-May-2008	18:00:00		-32.85	-37.05	-49.26		
26-May-2008	24:00:00		-32.65	-36.99	-49.24		

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Ambient	FLO RAW1	FLO RAW2	FLO RAW3	CG1	CG2
27-May-2008	06:00:00		-32.67	-36.91	-49.17		
27-May-2008	12:00:00		-32.55	-36.91	-49.02		
27-May-2008	18:00:00		-32.86	-37.01	-49.24		
27-May-2008	24:00:00		-32.62	-36.96	-49.14		
28-May-2008	06:00:00		-32.63	-36.88	-49.19		
28-May-2008	12:00:00		-32.63	-36.89	-49.11		
28-May-2008	18:00:00		-32.56	-36.82	-49.01		
28-May-2008	24:00:00		-32.67	-36.85	-49.12		
29-May-2008	06:00:00		-32.66	-36.83	-48.99	0	0
29-May-2008	12:00:00		-32.61	-36.81	-49.06		
29-May-2008	18:00:00		-32.77	-36.82	-49.21		
29-May-2008	24:00:00		-32.69	-36.72	-49.11		
30-May-2008	06:00:00		-32.60	-36.61	-48.94		
30-May-2008	12:00:00		-32.72	-36.76	-49.08		
30-May-2008	18:00:00		-32.85	-36.82	-49.23		
30-May-2008	24:00:00		-32.75	-36.79	-49.14		
31-May-2008	06:00:00		-32.80	-36.77	-49.18		
31-May-2008	12:00:00		-32.71	-36.79	-49.17		
31-May-2008	18:00:00		-32.78	-36.79	-49.20		
31-May-2008	24:00:00		-32.66	-36.85	-49.05		
1-Jun-2008	06:00:00		-32.63	-36.76	-49.07		
1-Jun-2008	12:00:00		-32.61	-36.67	-49.05		
1-Jun-2008	18:00:00		-32.59	-36.70	-49.03		
1-Jun-2008	24:00:00		-32.54	-36.58	-48.94		
2-Jun-2008	06:00:00		-32.61	-36.60	-48.94		
2-Jun-2008	12:00:00		-32.56	-36.55	-48.93		
2-Jun-2008	18:00:00		-32.66	-36.69	-49.06		
2-Jun-2008	24:00:00		-32.69	-36.71	-48.97		
3-Jun-2008	06:00:00		-32.59	-36.63	-48.94		
3-Jun-2008	12:00:00		-32.65	-36.64	-48.96		
3-Jun-2008	18:00:00		-32.72	-36.81	-49.03		
3-Jun-2008	24:00:00		-32.69	-36.75	-48.97		
4-Jun-2008	06:00:00		-32.72	-36.79	-49.07		
4-Jun-2008	12:00:00		-32.72	-36.79	-49.08		
4-Jun-2008	18:00:00		-32.78	-36.79	-48.97		
4-Jun-2008	24:00:00		-32.73	-36.81	-48.94		
5-Jun-2008	06:00:00		-32.53	-36.63	-48.72		
5-Jun-2008	12:00:00		-32.60	-36.66	-48.84		
5-Jun-2008	18:00:00		-32.72	-36.76	-48.87		
5-Jun-2008	24:00:00		-32.57	-36.69	-48.85		
6-Jun-2008	06:00:00		-32.55	-36.63	-48.82		
6-Jun-2008	12:00:00		-32.60	-36.66	-48.78		
6-Jun-2008	18:00:00		-32.63	-36.67	-48.95		
6-Jun-2008	24:00:00		-32.68	-36.71	-48.93		
7-Jun-2008	06:00:00		-32.60	-36.77	-48.79		
7-Jun-2008	12:00:00		-32.74	-36.71	-48.97		
7-Jun-2008	18:00:00		-32.65	-36.65	-48.89		
7-Jun-2008	24:00:00		-32.56	-36.67	-48.85		
8-Jun-2008	06:00:00		-32.59	-36.60	-48.93		

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Ambient	FLO RAW1	FLO RAW2	FLO RAW3	CG1	CG2
8-Jun-2008	12:00:00		-32.50	-36.51	-48.84		
8-Jun-2008	18:00:00		-32.48	-36.55	-48.77		
8-Jun-2008	24:00:00		-32.47	-36.57	-48.72		
9-Jun-2008	06:00:00		-32.39	-36.48	-48.73		
9-Jun-2008	12:00:00		-32.48	-36.61	-48.88		
9-Jun-2008	18:00:00		-32.51	-36.47	-48.82		
9-Jun-2008	24:00:00		-32.45	-36.46	-48.76		
10-Jun-2008	06:00:00		-32.42	-36.42	-48.81		
10-Jun-2008	12:00:00		-32.49	-36.57	-48.76		
10-Jun-2008	18:00:00		-32.59	-36.72	-48.90		
10-Jun-2008	24:00:00		-32.36	-36.51	-48.59		
11-Jun-2008	06:00:00		-32.48	-36.60	-48.71		
11-Jun-2008	12:00:00		-32.44	-36.64	-48.75		
11-Jun-2008	18:00:00		-32.45	-36.65	-48.76		
11-Jun-2008	24:00:00		-32.35	-36.58	-48.75		
12-Jun-2008	06:00:00		-32.42	-36.60	-48.76		
12-Jun-2008	12:00:00		-32.59	-36.61	-48.84		
12-Jun-2008	18:00:00		-32.72	-36.73	-48.85		
12-Jun-2008	24:00:00		-32.50	-36.58	-48.77		
13-Jun-2008	06:00:00		-32.41	-36.49	-48.71		
13-Jun-2008	12:00:00		-32.56	-36.59	-48.75		
13-Jun-2008	18:00:00		-32.67	-36.65	-48.84		
13-Jun-2008	24:00:00		-32.59	-36.60	-48.85		
14-Jun-2008	06:00:00		-32.54	-36.54	-48.67		
14-Jun-2008	12:00:00		-32.53	-36.64	-48.88		
14-Jun-2008	18:00:00		-32.65	-36.69	-48.93		
14-Jun-2008	24:00:00		-32.50	-36.57	-48.79		
15-Jun-2008	06:00:00		-32.62	-36.59	-48.87		
15-Jun-2008	12:00:00		-32.56	-36.66	-48.79		
15-Jun-2008	18:00:00		-32.71	-36.79	-48.90		
15-Jun-2008	24:00:00		-32.61	-36.61	-48.87		
16-Jun-2008	06:00:00		-32.63	-36.58	-48.79		
16-Jun-2008	12:00:00		-32.59	-36.59	-48.87		
16-Jun-2008	18:00:00		-32.66	-36.72	-48.87		
16-Jun-2008	24:00:00		-32.47	-36.54	-48.71		
17-Jun-2008	06:00:00		-32.65	-36.61	-48.94		
17-Jun-2008	12:00:00		-32.63	-36.53	-48.88		
17-Jun-2008	18:00:00		-32.62	-36.58	-48.93		
17-Jun-2008	24:00:00		-32.62	-36.66	-48.93		
18-Jun-2008	06:00:00		-32.49	-36.52	-48.70		
18-Jun-2008	12:00:00		-32.53	-36.45	-48.72		
18-Jun-2008	18:00:00		-32.75	-36.79	-48.96		
18-Jun-2008	24:00:00		-32.66	-36.53	-48.83		
19-Jun-2008	06:00:00		-32.57	-36.60	-48.78		
19-Jun-2008	12:00:00		-32.59	-36.58	-48.79		
19-Jun-2008	18:00:00		-32.69	-36.76	-48.95		
19-Jun-2008	24:00:00		-32.50	-36.57	-48.66		
20-Jun-2008	06:00:00		-32.61	-36.61	-48.84		
20-Jun-2008	12:00:00		-32.54	-36.58	-48.77		

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Ambient	FLO RAW1	FLO RAW2	FLO RAW3	CG1	CG2
20-Jun-2008	18:00:00		-32.65	-36.66	-48.93		
20-Jun-2008	24:00:00		-32.50	-36.48	-48.73		
21-Jun-2008	06:00:00		-32.41	-36.42	-48.81		
21-Jun-2008	12:00:00		-32.44	-36.46	-48.79		
21-Jun-2008	18:00:00		-32.57	-36.69	-48.84		
21-Jun-2008	24:00:00		-32.59	-36.59	-48.87		
22-Jun-2008	06:00:00		-32.49	-36.51	-48.72		
22-Jun-2008	12:00:00		-32.53	-36.59	-48.76		
22-Jun-2008	18:00:00		-32.65	-36.64	-48.94		
22-Jun-2008	24:00:00		-32.43	-30.41	-48.71		
23-Jun-2008	06:00:00		-32.54	-36.65	-48.73		
23-Jun-2008	12:00:00		-32.50	-36.65	-48.66		
23-Jun-2008	18:00:00		-32.63	-36.82	-48.83		
23-Jun-2008	24:00:00		-32.49	-36.71	-48.73		
24-Jun-2008	06:00:00		-32.53	-36.70	-48.72		
24-Jun-2008	12:00:00		-32.54	-36.73	-48.72		
24-Jun-2008	18:00:00		-32.60	-36.88	-48.91		
24-Jun-2008	24:00:00		-32.60	-36.76	-48.83		
25-Jun-2008	06:00:00		-32.43	-36.65	-48.70		
25-Jun-2008	12:00:00		-32.43	-36.66	-48.65	0	0
25-Jun-2008	18:00:00		-32.73	-36.73	-48.91		
25-Jun-2008	24:00:00		-32.68	-36.70	-48.96		
26-Jun-2008	06:00:00		-32.62	-36.54	-48.77		
26-Jun-2008	12:00:00		-32.65	-36.70	-48.81		
26-Jun-2008	18:00:00		-32.87	-36.88	-49.03		
26-Jun-2008	24:00:00		-32.71	-36.76	-48.95		
27-Jun-2008	06:00:00		-32.63	-36.64	-48.88		
27-Jun-2008	12:00:00		-32.61	-36.71	-48.82		
27-Jun-2008	18:00:00		-32.72	-36.73	-48.93		
27-Jun-2008	24:00:00		-32.68	-36.72	-49.01		
28-Jun-2008	06:00:00		-32.53	-36.51	-48.73		
28-Jun-2008	12:00:00		-32.67	-36.71	-48.84		
28-Jun-2008	18:00:00		-32.71	-36.71	-49.00		
28-Jun-2008	24:00:00		-32.72	-36.64	-48.94		
29-Jun-2008	06:00:00		-32.60	-36.57	-48.84		
29-Jun-2008	12:00:00		-32.68	-36.67	-48.99		
29-Jun-2008	18:00:00		-32.83	-36.82	-48.91		
29-Jun-2008	24:00:00		-32.72	-36.67	-49.02		
30-Jun-2008	06:00:00		-32.55	-36.63	-48.89		
30-Jun-2008	12:00:00		-32.72	-36.60	-48.95		
30-Jun-2008	18:00:00		-32.84	-36.72	-49.06		
30-Jun-2008	24:00:00		-32.50	-36.53	-48.77		
1-Jul-2008	06:00:00		-32.57	-36.53	-48.76		
1-Jul-2008	12:00:00		-32.60	-36.60	-48.77		
1-Jul-2008	18:00:00		-32.77	-36.76	-48.97		
1-Jul-2008	24:00:00		-32.66	-36.53	-48.83		
2-Jul-2008	06:00:00		-32.49	-36.47	-48.71		
2-Jul-2008	12:00:00		-32.54	-36.41	-48.70		
2-Jul-2008	18:00:00		-32.71	-36.61	-48.96		

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Ambient	FLO RAW1	FLO RAW2	FLO RAW3	CG1	CG2
2-Jul-2008	24:00:00		-32.75	-36.63	-48.93		
3-Jul-2008	06:00:00		-32.57	-36.49	-48.78		
3-Jul-2008	12:00:00		-32.72	-36.58	-48.93		
3-Jul-2008	18:00:00		-32.67	-36.64	-48.93		
3-Jul-2008	24:00:00		-32.55	-36.49	-48.67		
4-Jul-2008	06:00:00		-32.57	-36.47	-48.70		
4-Jul-2008	12:00:00		-32.57	-36.52	-48.65		
4-Jul-2008	18:00:00		-32.72	-36.65	-48.94		
4-Jul-2008	24:00:00		-32.69	-36.63	-48.83		
5-Jul-2008	06:00:00		-32.49	-36.42	-48.85		
5-Jul-2008	12:00:00		-32.68	-36.59	-48.81		
5-Jul-2008	18:00:00		-32.75	-36.63	-49.01		
5-Jul-2008	24:00:00		-32.69	-36.53	-48.83		
6-Jul-2008	06:00:00		-32.66	-36.52	-48.75		
6-Jul-2008	12:00:00		-32.55	-36.49	-48.77		
6-Jul-2008	18:00:00		-32.67	-36.64	-48.89		
6-Jul-2008	24:00:00		-32.49	-36.41	-48.70		
7-Jul-2008	06:00:00		-32.55	-36.17	-48.72		
7-Jul-2008	12:00:00		-32.72	-36.81	-48.89		
7-Jul-2008	18:00:00		-32.74	-36.82	-48.95		
7-Jul-2008	24:00:00		-32.62	-36.75	-48.75		
8-Jul-2008	06:00:00		-32.55	-36.71	-48.76		
8-Jul-2008	12:00:00		-32.51	-36.63	-48.72		
8-Jul-2008	18:00:00		-32.71	-36.81	-48.88		
8-Jul-2008	24:00:00		-32.55	-25.55	-48.84		
9-Jul-2008	06:00:00		-32.63	-30.09	-48.77		
9-Jul-2008	12:00:00		-32.55	-33.67	-48.76		
9-Jul-2008	18:00:00		-32.77	-36.66	-48.85		
9-Jul-2008	24:00:00		-32.69	-36.85	-48.96		
10-Jul-2008	06:00:00		-32.51	-36.61	-48.66		
10-Jul-2008	12:00:00		-32.63	-36.70	-48.69		
10-Jul-2008	18:00:00		-32.57	-36.73	-48.83		
10-Jul-2008	24:00:00		-32.84	-36.90	-48.93		
11-Jul-2008	06:00:00		-32.67	-36.71	-48.76		
11-Jul-2008	12:00:00		-32.67	-36.85	-48.76		
11-Jul-2008	18:00:00		-32.68	-36.91	-48.90		
11-Jul-2008	24:00:00		-32.59	-36.75	-48.84		
12-Jul-2008	06:00:00		-32.68	-36.60	-48.78		
12-Jul-2008	12:00:00		-32.59	-36.66	-48.76		
12-Jul-2008	18:00:00		-32.84	-36.82	-48.93		
12-Jul-2008	24:00:00		-32.75	-36.85	-48.84		
13-Jul-2008	06:00:00		-32.62	-36.73	-48.76		
13-Jul-2008	12:00:00		-32.69	-36.82	-48.88		
13-Jul-2008	18:00:00		-32.81	-36.88	-48.96		
13-Jul-2008	24:00:00		-32.66	-36.76	-48.85		
14-Jul-2008	06:00:00		-32.57	-36.72	-48.69		
14-Jul-2008	12:00:00		-32.66	-36.84	-48.77		
14-Jul-2008	18:00:00		-32.87	-36.95	-48.95		
14-Jul-2008	24:00:00		-32.61	-36.66	-48.67		

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Ambient	FLO RAW1	FLO RAW2	FLO RAW3	CG1	CG2
15-Jul-2008	06:00:00		-32.71	-36.76	-48.82		
15-Jul-2008	12:00:00		-32.71	-36.76	-48.81		
15-Jul-2008	18:00:00		-32.85	-36.94	-48.87		
15-Jul-2008	24:00:00		-32.72	-36.76	-48.82		
16-Jul-2008	06:00:00		-32.56	-36.60	-48.78		
16-Jul-2008	12:00:00		-32.65	-36.84	-48.83		
16-Jul-2008	18:00:00		-32.90	-36.97	-48.99		
16-Jul-2008	24:00:00		-32.68	-36.84	-48.82		
17-Jul-2008	06:00:00		-32.59	-36.75	-48.76		
17-Jul-2008	12:00:00		-32.62	-36.76	-48.81		
17-Jul-2008	18:00:00		-32.74	-36.95	-49.05		
17-Jul-2008	24:00:00		-32.61	-36.70	-48.78		
18-Jul-2008	06:00:00		-32.60	-36.69	-48.73		
18-Jul-2008	12:00:00		-32.71	-36.87	-48.88		
18-Jul-2008	18:00:00		-32.81	-36.94	-48.87		
18-Jul-2008	24:00:00		-32.67	-36.81	-48.81		
19-Jul-2008	06:00:00		-32.69	-36.79	-48.75		
19-Jul-2008	12:00:00		-32.61	-36.75	-48.83		
19-Jul-2008	18:00:00		-32.71	-36.94	-48.97		
19-Jul-2008	24:00:00		-32.65	-36.77	-48.83		
20-Jul-2008	06:00:00		-32.54	-36.73	-48.72		
20-Jul-2008	12:00:00		-32.67	-36.77	-48.82		
20-Jul-2008	18:00:00		-32.85	-36.97	-49.00		
20-Jul-2008	24:00:00		-32.65	-36.82	-48.88		
21-Jul-2008	06:00:00		-32.63	-36.65	-48.78		
21-Jul-2008	12:00:00		-32.63	-36.82	-48.79		
21-Jul-2008	18:00:00		-32.67	-36.87	-48.83		
21-Jul-2008	24:00:00		-32.62	-36.83	-48.82		
22-Jul-2008	06:00:00		-32.62	-36.75	-48.69		
22-Jul-2008	12:00:00		-32.57	-36.82	-48.77		
22-Jul-2008	18:00:00		-32.72	-36.90	-48.88		
22-Jul-2008	24:00:00		-32.59	-36.78	-48.83		
23-Jul-2008	06:00:00		-32.51	-36.65	-48.83		
23-Jul-2008	12:00:00		-32.57	-36.66	-48.82		
23-Jul-2008	18:00:00		-32.87	-37.00	-49.12		
23-Jul-2008	24:00:00		-32.71	-36.79	-48.87		
24-Jul-2008	06:00:00		-32.72	-36.77	-48.84		
24-Jul-2008	12:00:00		-32.68	-29.47	-48.83		
24-Jul-2008	18:00:00		-32.72	-33.04	-48.88		
24-Jul-2008	24:00:00		-32.56	-35.77	-48.72		
25-Jul-2008	06:00:00		-32.60	-36.73	-48.79		
25-Jul-2008	12:00:00		-32.59	-36.67	-48.73		
25-Jul-2008	18:00:00		-32.74	-36.89	-48.89		
25-Jul-2008	24:00:00		-32.72	-36.91	-48.78		
26-Jul-2008	06:00:00		-32.67	-36.81	-48.73		
26-Jul-2008	12:00:00		-32.68	-36.95	-48.96		
26-Jul-2008	18:00:00		-32.75	-36.96	-48.94		
26-Jul-2008	24:00:00		-32.72	-36.82	-48.83		
27-Jul-2008	06:00:00		-32.62	-36.84	-48.87		

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Ambient	FLO RAW1	FLO RAW2	FLO RAW3	CG1	CG2
27-Jul-2008	12:00:00		-32.73	-36.89	-48.85		
27-Jul-2008	18:00:00		-32.74	-36.97	-48.87		
27-Jul-2008	24:00:00		-32.69	-36.95	-48.77		
28-Jul-2008	06:00:00		-32.80	-36.89	-48.91		
28-Jul-2008	12:00:00		-32.65	-36.94	-48.77		
28-Jul-2008	18:00:00		-32.73	-36.91	-48.94		
28-Jul-2008	24:00:00		-32.68	-36.81	-48.84		
29-Jul-2008	06:00:00		-32.72	-36.91	-48.91		
29-Jul-2008	12:00:00		-32.61	-36.91	-48.82		
29-Jul-2008	18:00:00		-32.74	-36.91	-48.85		
29-Jul-2008	24:00:00		-32.60	-36.78	-48.81		
30-Jul-2008	06:00:00		-32.50	-36.83	-48.66		
30-Jul-2008	12:00:00		-32.65	-36.78	-48.82		
30-Jul-2008	18:00:00		-32.84	-36.93	-48.97		
30-Jul-2008	24:00:00		-32.65	-36.76	-48.77		
31-Jul-2008	06:00:00		-32.56	-36.79	-48.70		
31-Jul-2008	12:00:00		-32.69	-36.82	-48.79	0.3	0.5
31-Jul-2008	18:00:00						
31-Jul-2008	24:00:00						

APPENDIX D

2008 Site Photos



SPA1. Woody debris causing scour on left bank.



SPA2. Erosion behind bedded log structure due to improper installation.



SPA3. Scour, erosion on left bank.



SPA4. Point bar at log vane; vegetation in channel.



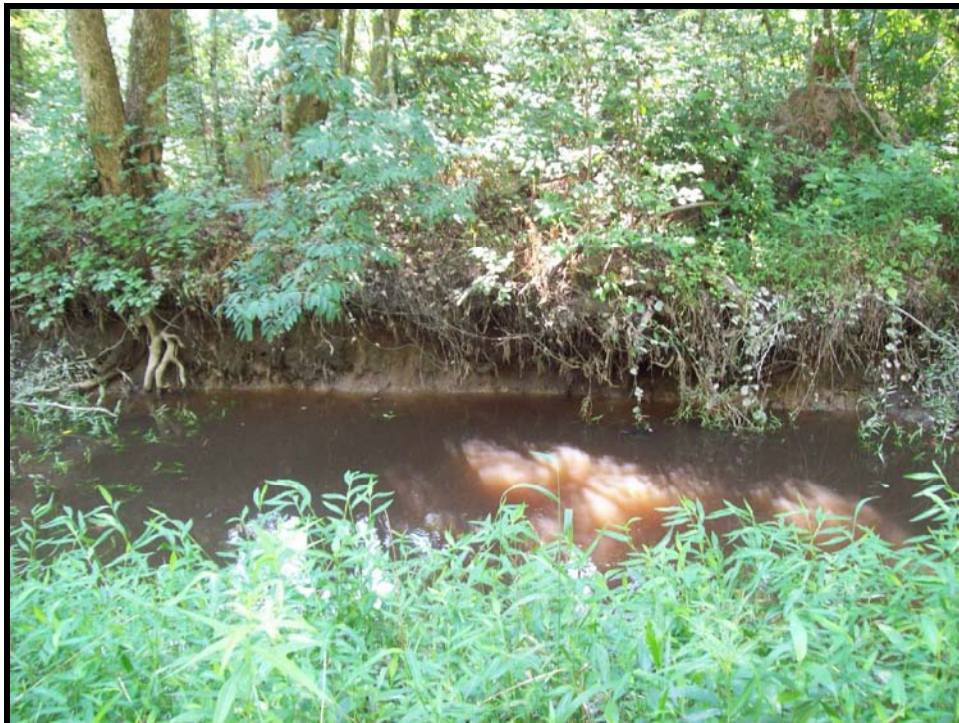
SPA5. Scour on right bank around bedded log structure.



SPA6. Vegetation in channel behind bedded log structure; scour on right bank.



SPA7. Scour on right bank behind log vane.



SPA8. Typical undercut condition all along reach.



Vegetation Plot 1



Vegetation Plot 2



Vegetation Plot 3



Vegetation Plot 4



Vegetation Plot 5



Vegetation Plot 6



Vegetation Plot 7



Vegetation Plot 8



Vegetation Plot 9



Vegetation Plot 10



Vegetation Plot 11



Vegetation Plot 12



Vegetation Plot 13



Vegetation Plot 14



Vegetation Plot 15



Vegetation Plot 16



Vegetation Plot 17



Vegetation Plot 18

APPENDIX E

Morphologic Parameters

Parameter	Cross Section 1 Pool						Cross Section 2 Riffle						Cross Section 3 Pool						Cross Section 4 Riffle					
Dimension	Base	MY1	MY2	MY3	MY4	MY5	Base	MY1	MY2	MY3	MY4	MY5	Base	MY1	MY2	MY3	MY4	MY5	Base	MY1	MY2	MY3	MY4	MY5
BF Width (ft)	16.8	16.9					16.4	19.0					19.3	18.8					22.4	19.9				
Floodprone Width (ft)	73.0	70.8					79.3	77.4					77.5	76.8					72.7	65.1				
BF Cross Sectional Area (ft ²)	34.1	33.9					18.7	21.3					49.0	41.2					26.2	22.4				
BF Mean Depth (ft)	2.0	2.0					1.1	1.1					2.5	2.2					1.2	1.1				
BF Max Depth (ft)	3.8	3.7					2.4	2.5					4.9	4.8					2.9	2.6				
Width/Depth Ratio	8.3	8.4					14.5	17.0					7.6	8.6					19.2	17.6				
Entrenchment Ratio	4.3	3.0					4.8	4.1					4.0	4.1					3.2	3.3				
Wetted Perimeter(ft)	18.9	18.9					17.2	19.7					22.2	21.6					23.3	20.6				
Hydraulic radius (ft)	1.8	1.8					1.1	1.1					2.2	1.9					1.1	1.1				
Parameter	Cross Section 5 Riffle						Cross Section 6 Pool						Cross Section 7 Riffle						Cross Section 8 Pool					
Dimension	Base	MY1	MY2	MY3	MY4	MY5	Base	MY1	MY2	MY3	MY4	MY5	Base	MY1	MY2	MY3	MY4	MY5	Base	MY1	MY2	MY3	MY4	MY5
BF Width (ft)	16.7	16.5					17.4	18.1					18.5	20.3					19.2	20.0				
Floodprone Width (ft)	69.4	66.2					69.0	66.9					62.2	61.1					60.2	60.0				
BF Cross Sectional Area (ft ²)	16.4	15.8					28.8	29.7					16.7	19.3					26.0	26.4				
BF Mean Depth (ft)	1.0	1.0					1.7	1.6					0.9	0.9					1.4	1.3				
BF Max Depth (ft)	2.0	2.0					3.4	3.4					1.4	1.7					2.5	2.5				
Width/Depth Ratio	17.0	17.1					10.5	11.1					20.4	21.4					14.1	15.2				
Entrenchment Ratio	4.2	4.0					4.0	3.7					3.4	3.0					3.1	3.0				
Wetted Perimeter(ft)	17.2	17.0					19.0	19.7					18.9	21.2					20.2	20.9				
Hydraulic radius (ft)	1.0	0.9					1.5	1.5					0.9	0.9					1.3	1.3				
Parameter	Cross Section 9 Riffle						Cross Section 10 Pool						Cross Section 11 Riffle						Cross Section 12 Pool					
Dimension	Base	MY1	MY2	MY3	MY4	MY5	Base	MY1	MY2	MY3	MY4	MY5	Base	MY1	MY2	MY3	MY4	MY5	Base	MY1	MY2	MY3	MY4	MY5
BF Width (ft)	19.0	19.1					22.5	21.7					19.4	19.8					13.0	15.8				
Floodprone Width (ft)	66.1	66.0					80.5	80.2					77.9	74.8					78.7	76.7				
BF Cross Sectional Area (ft ²)	32.7	29.5					40.1	40.1					21.5	24.1					25.7	27.4				
BF Mean Depth (ft)	1.7	1.5					1.8	1.8					1.1	1.2					2.0	1.7				
BF Max Depth (ft)	2.9	2.7					3.8	3.7					2.7	2.8					3.9	3.9				
Width/Depth Ratio	11.1	12.4					12.7	11.8					17.5	16.3					6.6	9.2				
Entrenchment Ratio	3.5	3.4					3.6	3.7					4.0	3.8					6.1	4.8				
Wetted Perimeter(ft)	20.1	20.1					24.2	23.8					20.5	20.6					15.3	17.7				
Hydraulic radius (ft)	1.6	1.5					1.7	1.7					1.1	1.2					1.7	1.5				

