LETTER OF TRANSMITTAL

43 Barkley Circle, Suite 200
Fort Myers, FL 33907
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www.tdmcivilengineering.com

TO: Lee County Community Development Division of Natural Resources	JOB: ADD2014-00218	DATE: 1-27-2015
	ATTENTION: Sam Lee	
	RE: Villa Magnifica - PD Amendment	

WE ARE SENDING YOU THE FOLLOWING ITEMS

	Copy of Letter		Prints
	Copy of Application		Plans
X	Other (see remarks below)		Drawings

COPIES	DATE	NUMBER	DESCRIPTION
2			Floodplain Impact Analysis

THESE ARE TRANSMITTED AS CHECKED BELOW

	FOR APPROVAL		FOR YOUR USE
X	FOR REVIEW AND COMMENT		FOR YOUR RECORDS
	AS REQUESTED		APPROVED AS SUBMITTED
	APPROVED AS NOTED		RETURNED FOR CORRECTION
	OTHER		REVIEWED AS NOTED

REMARKS:

COPY TO:

RECEIVED
JAN 27 2015
COMMUNITY DEVELOPMENT

SIGNED Veronica Martin

Veronica Martin
E-mail: vmartin@tdmconsulting.com

ADD2014-00218 Lee County ePlan

Villa Magnifica
FKA The Preserve at
San Carlos Park

Floodplain Impact Analysis
No Rise Certification

Prepared for:

TDM Engineering
January, 2015

RHT engineering

Richard Hampton Thompson
LICENSE
No 46720
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Richard H Thompson, P.E.
DN: cn=Richard H Thompson, P.E., o=RHT Engineering, ou=PE # 46720, email=richard@rhtengineering.com, c=US
Date: 2015.01.23 08:15:11 -05'00'

Richard H. Thompson, P.E.
PE #46720

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Villa Magnifica
FKA The Preserve at San Carlos Park
Floodplain Impact Analysis

INTRODUCTION

Villa Magnifica is a 9.29 acre multifamily development proposed east of US 41 in San Carlos. Mullock Creek bisects the property on the east side. The revised FIRM maps which became effective on August 28, 2008 indicate that the project is located within a floodway. However, it also indicates that most of the surrounding commercial and residential lots are also in the floodway. (See the attached firmette.)

The floodway designation was determined by a HEC-RAS model developed by Taylor Engineering (TE) when they did the county wide modeling for the revised FEMA maps. The model was adopted and the maps have been authorized.

In addition to the standard stormwater treatment system the project will include three 38" x 19" culverts under the entrance drive to pass flows during flooding conditions. It will also include an additional flow way on the northeast side of the creek to continue the passage of the flow during 100 year events. The additional flowway will consist of a shelf constructed directly adjacent to the creek with a 20' bottom at elevation 4.5' NAD with 3:1 side slope on the opposite side. Please see the plans prepared by TDM Consulting for the details.

ANALYSIS

The floodplain impact evaluation of the site was done by analyzing the TE HES-RAS model and adjusting it for the proposed development. The TE model used a limited number of cross-sections to determine the flood stages along the length of the creek. It was determined that additional cross-sections would be required to adequately model the area of concern adjacent to the proposed development.

RHT Engineering revised the model by adding six additional cross-sections adjacent to the project area. These were placed between the weir just upstream of US41 (Waltzing Waters) and the culvert under Constitution Circle. None of the sections downstream of the weir or upstream of Constitution Circle were modified from the TE model. Additionally all input information, flow rates and roughness coefficients used in the TE model were applied to the RHT model.

Three cross-sections of Mullock Creek were obtained by from Coastal Engineering Consultants, Inc. These surveyed cross-sections were used in the six new model cross-sections by superimposing them over the basin wide cross-sections used by TE to determine the appropriate cross-sections for the RHT model. The new sections better depict the existing conditions within the area. The Manning roughness used for the RHT model was obtained from the estimate used in the TE model. The new cross-sections were placed to represent the property lines and entrance road location of the proposed project.

The post development model was then constructed by adding the proposed berms, entrance road and flow-way improvements into the existing model cross-sections. The development was assumed to be

ADD2014-00218 Lee County ePlan

completely filled to the elevation of the perimeter berms. It is also assumed that the existing spoil pile on the western side of the creek is removed when the berm is constructed. This results in a conservative estimate of the stream flow area and storage availability along the creek, with no storage available within the proposed project area.

The attached maps depict the locations of the cross-sections used in the model, the location of the surveyed cross-sections and the cross-sections obtained from the survey.

COMPARISON OF TE HEC RAS AND RHT EXISTING HEC RAS

There is very little change between the TE model and the RHT Corrected Effective model results. Overall, the two models demonstrate nearly identical values. The correlation between the two models provides assurance that the RHT Corrected Effective model is accurate with respect to the accepted model used to make the FIRM maps.

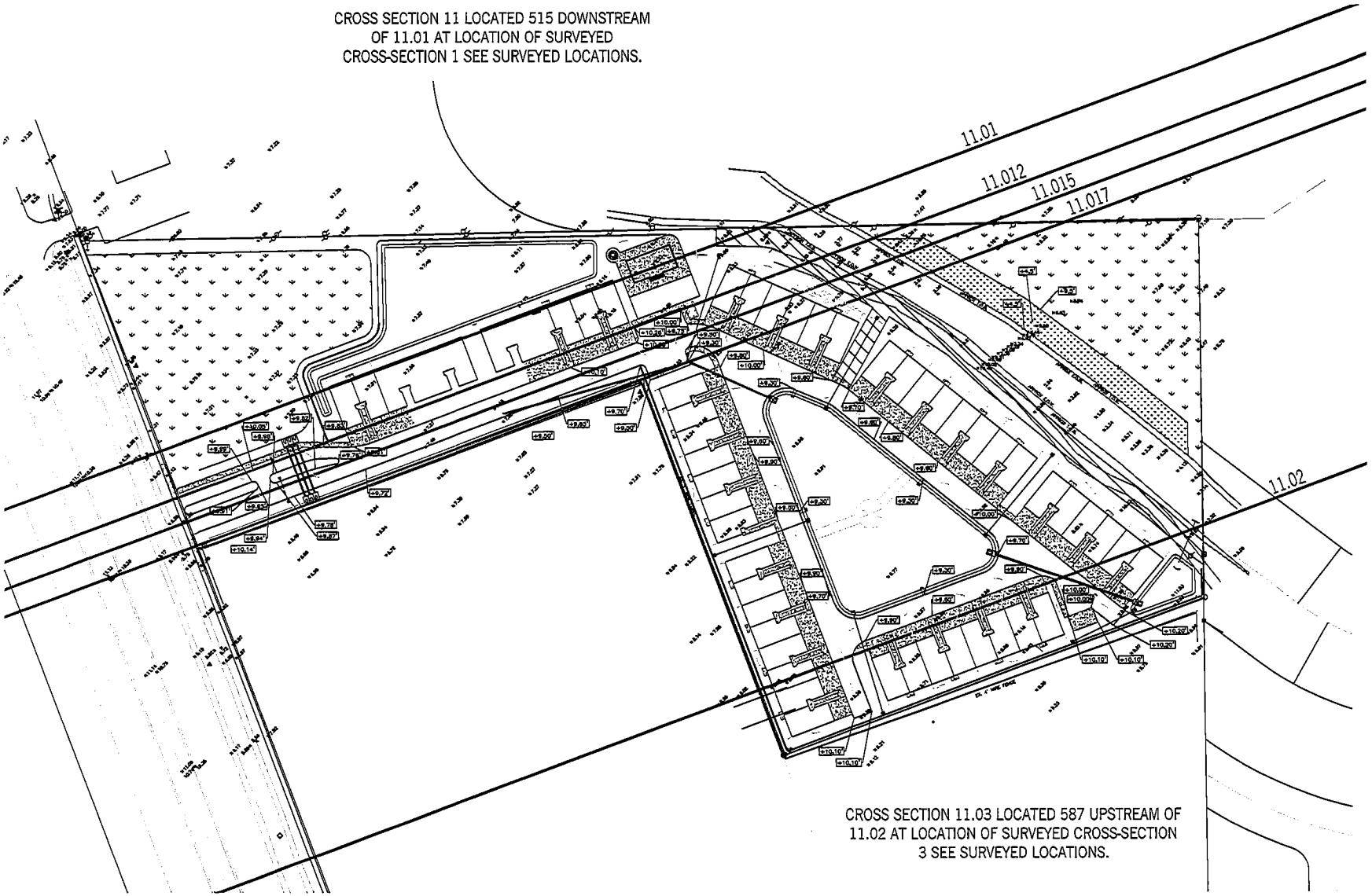
COMPARISON OF CORRECTED EFFECTIVE AND POSTDEVELOPMENT MODELS

A comparison of the Corrected Effective vs. the post development results from the HEC RAS model reveal that the stages are identical in both conditions. As can be seen in Appendix 2 there are no major variations in any of the categories between the two plans.

CONCLUSION

The development of this project will have no impact on the off-site floodplain stages or the conveyance capacity of Mullock Creek during a 100 year storm event. The project meets the requirements for issuance of an Environmental Resource Permit with respect to the floodplain and historic basin storage requirements as well as a No-Rise Certification from Lee County.

CROSS SECTION 11 LOCATED 515 DOWNSTREAM
OF 11.01 AT LOCATION OF SURVEYED
CROSS-SECTION 1 SEE SURVEYED LOCATIONS.



CROSS SECTION 11.03 LOCATED 587 UPSTREAM OF
11.02 AT LOCATION OF SURVEYED CROSS-SECTION
3 SEE SURVEYED LOCATIONS.

VILLA MAGNIFICA
MODEL CROSS-SECTION LOCATIONS

Richard H. Thompson, P.E.
PE # 46720

ADD2014-00218 Lee County ePlan

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VILLA MAGNIFICA
DUP EFF MODEL

HEC-RAS Plan: Imported Pla River: Mullock Creek Reach: Upstream Main

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Upstream Main	21.4	100-yr	144.00	7.57	14.75		14.75	0.000004	0.22	3816.78	4971.73	0.02
Upstream Main	21.4	Floodways	144.00	7.57	15.77		15.77	0.000005	0.24	1980.39	1039.99	0.02
Upstream Main	21.3	100-yr	144.00	7.57	14.75	9.43	14.75	0.000004	0.22	3816.37	4971.72	0.02
Upstream Main	21.3	Floodways	144.00	7.57	15.77	9.43	15.77	0.000006	0.30	1611.25	861.01	0.02
Upstream Main	21.25		Culvert									
Upstream Main	21.2	100-yr	144.00	7.07	14.75	8.57	14.75	0.000003	0.19	4089.88	4970.55	0.01
Upstream Main	21.2	Floodways	144.00	7.07	15.77	8.58	15.77	0.000003	0.21	1993.68	915.62	0.01
Upstream Main	21.1	100-yr	144.00	7.07	14.75		14.75	0.000003	0.19	4090.90	4973.92	0.01
Upstream Main	21.1	Floodways	144.00	7.07	15.77		15.77	0.000003	0.21	1993.83	915.73	0.01
Upstream Main	20.	100-yr	144.00	7.07	14.75		14.75	0.000002	0.15	5990.35	7678.71	0.01
Upstream Main	20.	Floodways	144.00	7.07	15.76		15.76	0.000002	0.17	3053.97	1572.32	0.01
Upstream Main	19.	100-yr	144.00	4.82	14.75		14.75	0.000001	0.08	6496.89	7488.19	0.01
Upstream Main	19.	Floodways	144.00	4.82	15.76		15.76	0.000001	0.08	2874.70	1178.81	0.01
Upstream Main	18.4	100-yr	903.00	5.47	14.74		14.75	0.000062	0.94	6447.84	8193.71	0.07
Upstream Main	18.4	Floodways	903.00	5.47	15.76		15.76	0.000068	1.06	3305.73	1672.18	0.07
Upstream Main	18.3	100-yr	903.00	5.47	14.74	11.05	14.74	0.000063	0.94	6433.26	8231.37	0.07
Upstream Main	18.3	Floodways	903.00	5.47	15.75	11.05	15.76	0.000068	1.08	3245.69	1642.28	0.07
Upstream Main	18.25		Culvert									
Upstream Main	18.2	100-yr	903.00	6.47	14.73	9.56	14.74	0.000047	0.87	6443.08	8437.66	0.06
Upstream Main	18.2	Floodways	903.00	6.47	15.75	9.56	15.76	0.000049	0.98	3201.25	1642.28	0.06
Upstream Main	18.1	100-yr	903.00	6.47	14.73		14.74	0.000047	0.87	6432.46	8437.27	0.06
Upstream Main	18.1	Floodways	903.00	6.47	15.75		15.75	0.000050	0.98	3192.15	1638.33	0.06
Upstream Main	17.	100-yr	903.00	6.47	14.73		14.73	0.000048	0.88	6398.85	8433.50	0.06
Upstream Main	17.	Floodways	903.00	6.47	15.74		15.75	0.000050	0.99	3145.54	1602.21	0.06
Upstream Main	16	100-yr	903.00	5.97	14.72		14.73	0.000027	0.43	6750.94	8126.23	0.04
Upstream Main	16	Floodways	903.00	5.97	15.74		15.74	0.000028	0.51	2489.85	915.18	0.04
Upstream Main	15.	100-yr	903.00	5.97	14.66		14.67	0.000067	1.06	5771.88	8404.59	0.07
Upstream Main	15.	Floodways	903.00	5.97	15.67		15.68	0.000073	1.20	2688.19	1432.14	0.08
Upstream Main	14.4	100-yr	1736.00	5.97	14.58		14.61	0.000273	2.11	5529.79	8220.68	0.14
Upstream Main	14.4	Floodways	1736.00	5.97	15.56		15.61	0.000325	2.51	2030.53	813.53	0.16
Upstream Main	14.3	100-yr	1736.00	5.97	14.57	11.30	14.60	0.000283	2.15	5437.52	8202.39	0.14
Upstream Main	14.3	Floodways	1736.00	5.97	15.57	11.30	15.59	0.000154	1.73	3901.07	1998.65	0.11
Upstream Main	14.25		Culvert									
Upstream Main	14.2	100-yr	1736.00	6.27	14.55	12.63	14.55	0.000079	1.08	8916.89	8131.32	0.08
Upstream Main	14.2	Floodways	1736.00	6.27	15.58	11.43	15.58	0.000076	1.18	4923.89	1998.65	0.08
Upstream Main	14.1	100-yr	1736.00	5.87	14.48		14.53	0.000357	2.49	4241.35	8104.26	0.16
Upstream Main	14.1	Floodways	1736.00	5.87	15.46		15.56	0.000361	2.73	1688.06	892.45	0.17
Upstream Main	13.4	100-yr	1884.00	6.27	14.12		14.15	0.000375	2.24	5772.60	10954.32	0.16
Upstream Main	13.4	Floodways	1884.00	6.27	15.11		15.16	0.000388	2.53	2441.24	1481.59	0.17
Upstream Main	13.3	100-yr	1884.00	6.27	14.11	12.69	14.14	0.000381	2.26	5733.25	10954.05	0.17
Upstream Main	13.3	Floodways	1884.00	6.27	15.11	11.66	15.15	0.000317	2.29	2997.36	1988.35	0.16
Upstream Main	13.25		Culvert									
Upstream Main	13.2	100-yr	1884.00	5.67	14.12	12.59	14.14	0.000311	2.06	6655.19	10886.99	0.15
Upstream Main	13.2	Floodways	1884.00	5.67	15.12	13.08	15.14	0.000316	2.30	3170.80	1988.35	0.15
Upstream Main	13.1	100-yr	1884.00	5.67	14.12		14.14	0.000315	2.07	6626.40	10890.45	0.15
Upstream Main	13.1	Floodways	1884.00	5.67	15.11		15.14	0.000319	2.31	3151.99	1979.93	0.15
Upstream Main	12.4	100-yr	2032.00	5.12	13.92		13.93	0.000022	0.63	13210.85	5947.58	0.04
Upstream Main	12.4	Floodways	2032.00	5.12	14.93		14.93	0.000022	0.66	10294.79	3187.82	0.04
Upstream Main	12.3	100-yr	2032.00	5.12	13.92	10.75	13.92	0.000022	0.63	13205.44	5947.31	0.04
Upstream Main	12.3	Floodways	2032.00	5.12	14.92	10.03	14.93	0.000058	1.12	5491.52	1552.11	0.07
Upstream Main	12.25		Bridge									
Upstream Main	12.2	100-yr	2032.00	5.92	12.75		12.83	0.001235	3.37	2760.32	4082.16	0.29
Upstream Main	12.2	Floodways	2032.00	5.92	12.89	11.56	13.52	0.004835	6.75	605.35	877.70	0.57

ADD2014-00218 Lee County ePlan

HEC-RAS Plan: Imported Pla River: Mullock Creek Reach: Upstream Main (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Upstream Main	12.1	100-yr	2032.00	5.92	12.58	11.56	12.73	0.002097	4.30	2097.81	3709.60	0.37
Upstream Main	12.1	Floodways	2032.00	5.92	12.86	11.56	13.15	0.002935	5.24	1198.17	1570.42	0.44
Upstream Main	11.4	100-yr	2040.00	5.67	11.90		11.90	0.000025	0.54	11290.76	4193.48	0.04
Upstream Main	11.4	Floodways	2040.00	5.67	11.94		11.95	0.000075	0.94	6847.85	3020.87	0.07
Upstream Main	11.3	100-yr	2040.00	5.67	11.90	9.08	11.90	0.000025	0.54	11392.74	4744.86	0.04
Upstream Main	11.3	Floodways	2040.00	5.67	11.94	9.08	11.94	0.000075	0.94	6841.23	3020.86	0.07
Upstream Main	11.25		Culvert									
Upstream Main	11.2	100-yr	2040.00	5.17	10.17	8.97	10.17	0.000256	1.49	5323.99	4226.13	0.13
Upstream Main	11.2	Floodways	2040.00	5.17	10.70	8.97	10.73	0.000499	2.22	3345.30	2606.20	0.18
Upstream Main	11.1	100-yr	2040.00	5.17	10.16		10.17	0.000261	1.50	5291.41	4222.98	0.13
Upstream Main	11.1	Floodways	2040.00	5.17	10.67		10.71	0.000639	2.50	2965.59	2487.82	0.21
Upstream Main	10.9	100-yr	2040.00	-1.43	9.84		9.84	0.000018	0.67	13275.74	5681.07	0.04
Upstream Main	10.9	Floodways	2040.00	-1.43	9.94		9.94	0.000016	0.64	13835.91	5708.94	0.04
Upstream Main	10.8	100-yr	2040.00	-1.43	9.84	3.59	9.84	0.000018	0.67	13274.73	5681.02	0.04
Upstream Main	10.8	Floodways	2040.00	-1.43	9.93	3.59	9.94	0.000051	1.14	7283.59	3120.01	0.06
Upstream Main	10.75		Inl Struct									
Upstream Main	10.7	100-yr	2040.00	-1.43	9.83		9.84	0.000017	0.65	13905.61	5883.35	0.04
Upstream Main	10.7	Floodways	2040.00	-1.43	9.92		9.93	0.000041	1.03	8210.27	3379.11	0.06
Upstream Main	10.4	100-yr	2064.00	-1.43	9.83		9.84	0.000017	0.66	13905.28	5883.35	0.04
Upstream Main	10.4	Floodways	2064.00	-1.43	9.92		9.93	0.000042	1.04	8209.60	3379.08	0.06
Upstream Main	10.3	100-yr	2064.00	-1.43	9.83	3.63	9.83	0.000017	0.66	13903.47	5883.34	0.04
Upstream Main	10.3	Floodways	2064.00	-1.43	9.92	3.62	9.93	0.000042	1.04	8207.02	3379.08	0.06
Upstream Main	10.25		Culvert									
Upstream Main	10.2	100-yr	2064.00	-1.43	6.57	5.73	6.82	0.001867	5.27	1367.17	1287.19	0.37
Upstream Main	10.2	Floodways	2064.00	-1.43	7.41	5.27	8.26	0.003900	7.74	337.72	72.75	0.51
Upstream Main	10.1	100-yr	2064.00	-1.43	5.67	5.60	6.44	0.005534	8.18	612.12	475.04	0.62
Upstream Main	10.1	Floodways	2064.00	-1.43	6.53		7.77	0.006320	9.15	260.63	52.76	0.64
Upstream Main	9	100-yr	2064.00	-6.18	3.22		3.32	0.000316	2.47	933.70	478.45	0.16
Upstream Main	9	Floodways	2064.00	-6.18	4.08		4.15	0.000231	2.23	925.26	110.00	0.14
Upstream Main	8	100-yr	2064.00	-6.18	2.85		2.89	0.000143	1.59	2015.86	1565.10	0.11
Upstream Main	8	Floodways	2064.00	-6.18	3.80		3.83	0.000108	1.48	1397.08	180.00	0.09
Upstream Main	7	100-yr	2064.00	-6.78	2.66		2.70	0.000184	1.75	2355.44	2129.13	0.12
Upstream Main	7	Floodways	2064.00	-6.78	3.65		3.69	0.000146	1.70	1279.52	200.87	0.11
Upstream Main	3	100-yr	2064.00	-6.78	2.65		2.68	0.000173	1.67	3622.24	4257.20	0.12
Upstream Main	3	Floodways	2064.00	-6.78	3.62		3.67	0.000174	1.84	1189.80	200.87	0.12
Upstream Main	2	100-yr	2064.00	-4.33	2.50		2.54	0.000205	1.70	2194.58	1378.46	0.12
Upstream Main	2	Floodways	2064.00	-4.33	3.50		3.54	0.000164	1.68	1245.48	184.89	0.11
Upstream Main	1	100-yr	2751.00	-4.33	0.52	-1.40	0.75	0.001861	3.89	823.75	396.23	0.35
Upstream Main	1	Floodways	2751.00	-4.33	1.52	-1.39	1.68	0.000928	3.17	868.91	180.20	0.25

ADD2014-00218 Lee County ePlan

VILLA MAGNIFICA
CORRECTED EFFECTIVE

HEC-RAS Plan: Imported Pla River: Mullock Creek Reach: Upstream Main

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Upstream Main	21.4	100-yr	144.00	7.57	14.73		14.73	0.000005	0.23	3723.70	4967.74	0.02
Upstream Main	21.4	Floodways	144.00	7.57	15.77		15.77	0.000005	0.24	1979.62	1039.99	0.02
Upstream Main	21.3	100-yr	144.00	7.57	14.73	9.43	14.73	0.000005	0.23	3723.26	4967.73	0.02
Upstream Main	21.3	Floodways	144.00	7.57	15.77	9.43	15.77	0.000006	0.30	1610.62	860.98	0.02
Upstream Main	21.25		Culvert									
Upstream Main	21.2	100-yr	144.00	7.07	14.73	8.57	14.73	0.000003	0.20	3982.57	4965.90	0.01
Upstream Main	21.2	Floodways	144.00	7.07	15.77	8.58	15.77	0.000003	0.21	1992.92	915.62	0.01
Upstream Main	21.1	100-yr	144.00	7.07	14.73		14.73	0.000003	0.20	3983.51	4969.16	0.01
Upstream Main	21.1	Floodways	144.00	7.07	15.77		15.77	0.000003	0.21	1993.06	915.73	0.01
Upstream Main	20.	100-yr	144.00	7.07	14.72		14.72	0.000002	0.15	5822.93	7676.88	0.01
Upstream Main	20.	Floodways	144.00	7.07	15.76		15.76	0.000002	0.17	3052.65	1572.32	0.01
Upstream Main	19.	100-yr	144.00	4.82	14.72		14.72	0.000001	0.08	6333.61	7484.25	0.01
Upstream Main	19.	Floodways	144.00	4.82	15.76		15.76	0.000001	0.08	2873.71	1178.72	0.01
Upstream Main	18.4	100-yr	903.00	5.47	14.72		14.72	0.000067	0.97	6265.76	8193.60	0.07
Upstream Main	18.4	Floodways	903.00	5.47	15.76		15.76	0.000066	1.06	3304.31	1672.18	0.07
Upstream Main	18.3	100-yr	903.00	5.47	14.72	11.05	14.72	0.000068	0.98	6247.33	8230.41	0.07
Upstream Main	18.3	Floodways	903.00	5.47	15.75	11.05	15.76	0.000068	1.08	3244.29	1642.28	0.07
Upstream Main	18.25		Culvert									
Upstream Main	18.2	100-yr	903.00	6.47	14.71	9.56	14.71	0.000051	0.90	6220.15	8429.47	0.06
Upstream Main	18.2	Floodways	903.00	6.47	15.75	9.56	15.75	0.000050	0.98	3197.00	1642.28	0.06
Upstream Main	18.1	100-yr	903.00	6.47	14.71		14.71	0.000052	0.91	6208.57	8429.04	0.06
Upstream Main	18.1	Floodways	903.00	6.47	15.74		15.75	0.000050	0.98	3187.90	1638.33	0.06
Upstream Main	17.	100-yr	903.00	6.47	14.70		14.70	0.000052	0.91	6170.15	8424.41	0.06
Upstream Main	17.	Floodways	903.00	6.47	15.74		15.74	0.000051	0.99	3141.35	1602.21	0.06
Upstream Main	16	100-yr	903.00	5.97	14.70		14.70	0.000028	0.45	6530.15	8119.51	0.04
Upstream Main	16	Floodways	903.00	5.97	15.74		15.74	0.000028	0.52	2487.45	915.14	0.04
Upstream Main	15.	100-yr	903.00	5.97	14.63		14.64	0.000076	1.12	5492.24	8391.92	0.07
Upstream Main	15.	Floodways	903.00	5.97	15.67		15.68	0.000073	1.21	2684.14	1432.14	0.08
Upstream Main	14.4	100-yr	1736.00	5.97	14.53		14.56	0.000323	2.28	5140.24	8217.94	0.15
Upstream Main	14.4	Floodways	1736.00	5.97	15.56		15.61	0.000326	2.52	2027.63	813.53	0.16
Upstream Main	14.3	100-yr	1736.00	5.97	14.52	11.30	14.55	0.000341	2.34	5017.39	8199.57	0.16
Upstream Main	14.3	Floodways	1736.00	5.97	15.57	11.30	15.58	0.000155	1.74	3894.13	1998.65	0.11
Upstream Main	14.25		Culvert									
Upstream Main	14.2	100-yr	1736.00	6.27	14.55	12.63	14.55	0.000079	1.08	8912.34	8131.26	0.08
Upstream Main	14.2	Floodways	1736.00	6.27	15.57	11.43	15.58	0.000076	1.18	4922.34	1998.65	0.08
Upstream Main	14.1	100-yr	1736.00	5.87	14.48		14.53	0.000358	2.49	4234.70	8104.20	0.16
Upstream Main	14.1	Floodways	1736.00	5.87	15.47		15.56	0.000362	2.73	1687.29	892.45	0.17
Upstream Main	13.4	100-yr	1884.00	6.27	14.11		14.14	0.000381	2.26	5731.83	10954.18	0.17
Upstream Main	13.4	Floodways	1884.00	6.27	15.11		15.16	0.000389	2.54	2439.19	1481.59	0.17
Upstream Main	13.3	100-yr	1884.00	6.27	14.11	12.69	14.14	0.000388	2.28	5689.83	10953.81	0.17
Upstream Main	13.3	Floodways	1884.00	6.27	15.11	11.66	15.15	0.000317	2.29	2994.99	1988.35	0.16
Upstream Main	13.25		Culvert									
Upstream Main	13.2	100-yr	1884.00	5.67	14.12	12.59	14.14	0.000316	2.07	6620.43	10886.70	0.15
Upstream Main	13.2	Floodways	1884.00	5.67	15.12	13.08	15.14	0.000316	2.30	3169.23	1988.35	0.15
Upstream Main	13.1	100-yr	1884.00	5.67	14.12		14.13	0.000320	2.08	6589.90	10890.16	0.15
Upstream Main	13.1	Floodways	1884.00	5.67	15.11		15.14	0.000320	2.31	3150.28	1979.93	0.15
Upstream Main	12.4	100-yr	2032.00	5.12	13.93		13.93	0.000022	0.62	13217.65	5947.92	0.04
Upstream Main	12.4	Floodways	2032.00	5.12	14.93		14.93	0.000022	0.66	10294.79	3187.82	0.04
Upstream Main	12.3	100-yr	2032.00	5.12	13.93	10.75	13.93	0.000022	0.63	13212.25	5947.65	0.04
Upstream Main	12.3	Floodways	2032.00	5.12	14.92	10.03	14.93	0.000058	1.12	5491.52	1552.11	0.07
Upstream Main	12.25		Bridge									
Upstream Main	12.2	100-yr	2032.00	5.92	12.75		12.83	0.001232	3.37	2763.85	4084.06	0.29
Upstream Main	12.2	Floodways	2032.00	5.92	12.88	11.56	13.52	0.004883	6.78	598.82	870.31	0.57

ADD2014-00218 Lee County ePlan

HEC-RAS Plan: Imported Pla River: Mullock Creek Reach: Upstream Main (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Upstream Main	12.1	100-yr	2032.00	5.92	12.58	11.56	12.73	0.002075	4.28	2109.76	3716.66	0.37
Upstream Main	12.1	Floodways	2032.00	5.92	12.85	11.56	13.15	0.002988	5.28	1183.40	1561.08	0.45
Upstream Main	11.4	100-yr	2040.00	5.67	11.90		11.90	0.000025	0.54	11298.85	4193.50	0.04
Upstream Main	11.4	Floodways	2040.00	5.67	11.92		11.92	0.000077	0.96	6769.31	3020.78	0.07
Upstream Main	11.3	100-yr	2040.00	5.67	11.90	9.08	11.90	0.000025	0.54	11401.91	4747.67	0.04
Upstream Main	11.3	Floodways	2040.00	5.67	11.91	9.08	11.92	0.000078	0.96	6762.47	3020.78	0.07
Upstream Main	11.25		Culvert									
Upstream Main	11.2	100-yr	2040.00	5.17	10.13	8.97	10.14	0.000279	1.55	5170.66	4211.28	0.14
Upstream Main	11.2	Floodways	2040.00	5.17	10.76	8.97	10.78	0.000445	2.11	3492.81	2606.63	0.17
Upstream Main	11.1	100-yr	2040.00	5.17	10.12		10.13	0.000284	1.56	5135.14	4207.84	0.14
Upstream Main	11.1	Floodways	2040.00	5.17	10.73		10.77	0.000564	2.36	3116.22	2488.28	0.20
Upstream Main	11.03	100-yr	2040.00	3.27	10.08		10.10	0.000228	1.57	4920.47	3290.09	0.13
Upstream Main	11.03	Floodways	2040.00	3.27	10.61		10.68	0.000731	3.01	2619.37	2489.00	0.23
Upstream Main	11.02	100-yr	2040.00	2.29	10.00		10.00	0.000077	1.08	8558.47	5205.79	0.08
Upstream Main	11.02	Floodways	2040.00	2.29	10.36		10.38	0.000237	1.98	4232.63	2488.00	0.14
Upstream Main	11.017	100-yr	2040.00	3.18	9.97	7.87	9.98	0.000077	1.05	8407.60	4964.70	0.08
Upstream Main	11.017	Floodways	2040.00	3.18	10.32	7.87	10.32	0.000044	0.82	10139.55	5011.10	0.06
Upstream Main	11.015		Culvert									
Upstream Main	11.012	100-yr	2040.00	3.18	9.97		9.98	0.000077	1.05	8407.62	4964.70	0.08
Upstream Main	11.012	Floodways	2040.00	3.18	10.32		10.32	0.000044	0.82	10139.55	5011.10	0.06
Upstream Main	11.01	100-yr	2040.00	3.18	9.96		9.97	0.000078	1.05	8367.65	4956.21	0.08
Upstream Main	11.01	Floodways	2040.00	3.18	10.29		10.31	0.000279	2.07	4043.34	2483.37	0.15
Upstream Main	11	100-yr	2040.00	2.40	9.90		9.91	0.000162	1.72	5503.94	4179.54	0.11
Upstream Main	11	Floodways	2040.00	2.40	10.04		10.12	0.000507	3.08	2697.40	2686.85	0.20
Upstream Main	10.9	100-yr	2040.00	-1.43	9.85		9.86	0.000017	0.67	13360.46	5685.29	0.04
Upstream Main	10.9	Floodways	2040.00	-1.43	9.94		9.94	0.000016	0.64	13853.22	5709.80	0.04
Upstream Main	10.8	100-yr	2040.00	-1.43	9.85	3.59	9.86	0.000017	0.67	13359.47	5685.24	0.04
Upstream Main	10.8	Floodways	2040.00	-1.43	9.93	3.59	9.94	0.000050	1.14	7293.12	3120.87	0.06
Upstream Main	10.75		Inl Struct									
Upstream Main	10.7	100-yr	2040.00	-1.43	9.85		9.85	0.000016	0.65	13993.42	5883.95	0.04
Upstream Main	10.7	Floodways	2040.00	-1.43	9.93		9.93	0.000041	1.03	8220.59	3379.11	0.06
Upstream Main	10.4	100-yr	2064.00	-1.43	9.85		9.85	0.000017	0.65	13993.11	5883.95	0.04
Upstream Main	10.4	Floodways	2064.00	-1.43	9.92		9.93	0.000042	1.04	8219.91	3379.08	0.06
Upstream Main	10.3	100-yr	2064.00	-1.43	9.85	3.63	9.85	0.000017	0.65	13991.33	5883.94	0.04
Upstream Main	10.3	Floodways	2064.00	-1.43	9.92	3.62	9.93	0.000042	1.04	8217.34	3379.08	0.06
Upstream Main	10.25		Culvert									
Upstream Main	10.2	100-yr	2064.00	-1.43	6.58	5.73	6.82	0.001859	5.26	1370.48	1287.22	0.37
Upstream Main	10.2	Floodways	2064.00	-1.43	7.41	5.27	8.26	0.003894	7.73	337.93	72.75	0.51
Upstream Main	10.1	100-yr	2064.00	-1.43	5.67	5.60	6.44	0.005528	8.18	612.53	475.23	0.62
Upstream Main	10.1	Floodways	2064.00	-1.43	6.54		7.77	0.006306	9.14	260.86	52.76	0.64
Upstream Main	9	100-yr	2064.00	-6.18	3.22		3.32	0.000316	2.47	933.67	478.39	0.16
Upstream Main	9	Floodways	2064.00	-6.18	4.08		4.15	0.000231	2.23	925.27	110.00	0.14
Upstream Main	8	100-yr	2064.00	-6.18	2.85		2.89	0.000143	1.59	2015.71	1564.98	0.11
Upstream Main	8	Floodways	2064.00	-6.18	3.80		3.83	0.000108	1.48	1397.09	180.00	0.09
Upstream Main	7	100-yr	2064.00	-6.78	2.66		2.70	0.000184	1.75	2355.18	2129.07	0.12
Upstream Main	7	Floodways	2064.00	-6.78	3.65		3.69	0.000146	1.70	1279.54	200.87	0.11
Upstream Main	3	100-yr	2064.00	-6.78	2.65		2.68	0.000173	1.67	3622.24	4257.20	0.12
Upstream Main	3	Floodways	2064.00	-6.78	3.62		3.67	0.000174	1.84	1189.80	200.87	0.12
Upstream Main	2	100-yr	2064.00	-4.33	2.50		2.54	0.000205	1.70	2194.58	1378.46	0.12
Upstream Main	2	Floodways	2064.00	-4.33	3.50		3.54	0.000164	1.68	1245.48	184.89	0.11
Upstream Main	1	100-yr	2751.00	-4.33	0.52	-1.40	0.75	0.001861	3.89	823.75	396.23	0.35
Upstream Main	1	Floodways	2751.00	-4.33	1.52	-1.39	1.68	0.000928	3.17	868.91	180.20	0.25

ADD2014-00218 Lee County ePlan

VILLA MAGNIFICA
PROPOSED CONDITIONS

HEC-RAS Plan: Imported Pla River: Mullock Creek Reach: Upstream Main

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Upstream Main	21.4	100-yr	144.00	7.57	14.73		14.73	0.000005	0.23	3723.62	4967.74	0.02
Upstream Main	21.4	Floodways	144.00	7.57	15.77		15.77	0.000005	0.24	1979.62	1039.99	0.02
Upstream Main	21.3	100-yr	144.00	7.57	14.73	9.43	14.73	0.000005	0.23	3723.18	4967.72	0.02
Upstream Main	21.3	Floodways	144.00	7.57	15.77	9.43	15.77	0.000006	0.30	1610.62	860.98	0.02
Upstream Main	21.25		Culvert									
Upstream Main	21.2	100-yr	144.00	7.07	14.73	8.57	14.73	0.000003	0.20	3982.39	4965.89	0.01
Upstream Main	21.2	Floodways	144.00	7.07	15.77	8.58	15.77	0.000003	0.21	1992.92	915.62	0.01
Upstream Main	21.1	100-yr	144.00	7.07	14.73		14.73	0.000003	0.20	3983.33	4969.16	0.01
Upstream Main	21.1	Floodways	144.00	7.07	15.77		15.77	0.000003	0.21	1993.06	915.73	0.01
Upstream Main	20.	100-yr	144.00	7.07	14.72		14.72	0.000002	0.15	5822.65	7676.88	0.01
Upstream Main	20.	Floodways	144.00	7.07	15.76		15.76	0.000002	0.17	3052.65	1572.32	0.01
Upstream Main	19.	100-yr	144.00	4.82	14.72		14.72	0.000001	0.08	6333.34	7484.25	0.01
Upstream Main	19.	Floodways	144.00	4.82	15.76		15.76	0.000001	0.08	2873.71	1178.72	0.01
Upstream Main	18.4	100-yr	903.00	5.47	14.72		14.72	0.000067	0.97	6265.46	8193.60	0.07
Upstream Main	18.4	Floodways	903.00	5.47	15.76		15.76	0.000066	1.06	3304.31	1672.18	0.07
Upstream Main	18.3	100-yr	903.00	5.47	14.72	11.05	14.72	0.000068	0.98	6247.02	8230.41	0.07
Upstream Main	18.3	Floodways	903.00	5.47	15.75	11.05	15.76	0.000068	1.08	3244.29	1642.28	0.07
Upstream Main	18.25		Culvert									
Upstream Main	18.2	100-yr	903.00	6.47	14.71	9.56	14.71	0.000051	0.90	6219.24	8429.43	0.06
Upstream Main	18.2	Floodways	903.00	6.47	15.75	9.56	15.75	0.000050	0.98	3197.00	1642.28	0.06
Upstream Main	18.1	100-yr	903.00	6.47	14.71		14.71	0.000052	0.91	6207.65	8429.01	0.06
Upstream Main	18.1	Floodways	903.00	6.47	15.74		15.75	0.000050	0.98	3187.90	1638.33	0.06
Upstream Main	17.	100-yr	903.00	6.47	14.70		14.70	0.000052	0.91	6169.21	8424.37	0.06
Upstream Main	17.	Floodways	903.00	6.47	15.74		15.74	0.000051	0.99	3141.35	1602.21	0.06
Upstream Main	16	100-yr	903.00	5.97	14.70		14.70	0.000028	0.45	6529.24	8119.49	0.04
Upstream Main	16	Floodways	903.00	5.97	15.74		15.74	0.000028	0.52	2487.45	915.14	0.04
Upstream Main	15.	100-yr	903.00	5.97	14.63		14.63	0.000076	1.12	5491.08	8391.87	0.07
Upstream Main	15.	Floodways	903.00	5.97	15.67		15.68	0.000073	1.21	2684.14	1432.14	0.08
Upstream Main	14.4	100-yr	1736.00	5.97	14.53		14.56	0.000324	2.29	5138.55	8217.92	0.15
Upstream Main	14.4	Floodways	1736.00	5.97	15.56		15.61	0.000326	2.52	2027.63	813.53	0.16
Upstream Main	14.3	100-yr	1736.00	5.97	14.52	11.30	14.55	0.000341	2.34	5015.58	8199.56	0.16
Upstream Main	14.3	Floodways	1736.00	5.97	15.57	11.30	15.58	0.000155	1.74	3894.13	1998.65	0.11
Upstream Main	14.25		Culvert									
Upstream Main	14.2	100-yr	1736.00	6.27	14.55	12.63	14.55	0.000079	1.08	8913.38	8131.27	0.08
Upstream Main	14.2	Floodways	1736.00	6.27	15.57	11.43	15.58	0.000076	1.18	4922.34	1998.65	0.08
Upstream Main	14.1	100-yr	1736.00	5.87	14.48		14.53	0.000358	2.49	4236.23	8104.21	0.16
Upstream Main	14.1	Floodways	1736.00	5.87	15.47		15.56	0.000362	2.73	1687.29	892.45	0.17
Upstream Main	13.4	100-yr	1884.00	6.27	14.12		14.15	0.000376	2.24	5766.82	10954.30	0.17
Upstream Main	13.4	Floodways	1884.00	6.27	15.11		15.16	0.000389	2.54	2439.19	1481.59	0.17
Upstream Main	13.3	100-yr	1884.00	6.27	14.11	12.69	14.14	0.000382	2.26	5725.57	10954.01	0.17
Upstream Main	13.3	Floodways	1884.00	6.27	15.11	11.66	15.15	0.000317	2.29	2994.99	1988.35	0.16
Upstream Main	13.25		Culvert									
Upstream Main	13.2	100-yr	1884.00	5.67	14.12	12.59	14.14	0.000316	2.07	6620.74	10886.70	0.15
Upstream Main	13.2	Floodways	1884.00	5.67	15.12	13.08	15.14	0.000316	2.30	3169.23	1988.35	0.15
Upstream Main	13.1	100-yr	1884.00	5.67	14.12		14.13	0.000320	2.08	6590.21	10890.16	0.15
Upstream Main	13.1	Floodways	1884.00	5.67	15.11		15.14	0.000320	2.31	3150.28	1979.93	0.15
Upstream Main	12.4	100-yr	2032.00	5.12	13.93		13.93	0.000022	0.62	13217.95	5947.94	0.04
Upstream Main	12.4	Floodways	2032.00	5.12	14.93		14.93	0.000022	0.66	10294.79	3187.82	0.04
Upstream Main	12.3	100-yr	2032.00	5.12	13.93	10.75	13.93	0.000022	0.63	13212.56	5947.87	0.04
Upstream Main	12.3	Floodways	2032.00	5.12	14.92	10.03	14.93	0.000058	1.12	5491.52	1552.11	0.07
Upstream Main	12.25		Bridge									
Upstream Main	12.2	100-yr	2032.00	5.92	12.75		12.83	0.001233	3.37	2762.58	4083.37	0.29
Upstream Main	12.2	Floodways	2032.00	5.92	12.87	11.56	13.52	0.004940	6.81	591.23	861.64	0.57

ADD2014-00218 Lee County ePlan

HEC-RAS Plan: Imported Pla River: Mullock Creek Reach: Upstream Main (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Upstream Main	12.1	100-yr	2032.00	5.92	12.57	11.56	12.73	0.002116	4.32	2087.25	3703.36	0.37
Upstream Main	12.1	Floodways	2032.00	5.92	12.64	11.56	13.15	0.003052	5.33	1165.97	1549.99	0.45
Upstream Main	11.4	100-yr	2040.00	5.67	11.88		11.89	0.000025	0.55	11219.80	4193.31	0.04
Upstream Main	11.4	Floodways	2040.00	5.67	11.89		11.89	0.000081	0.97	6674.89	3020.68	0.08
Upstream Main	11.3	100-yr	2040.00	5.67	11.88	9.08	11.88	0.000025	0.55	11312.59	4720.17	0.04
Upstream Main	11.3	Floodways	2040.00	5.67	11.88	9.08	11.89	0.000081	0.98	6667.75	3020.67	0.08
Upstream Main	11.25		Culvert									
Upstream Main	11.2	100-yr	2040.00	5.17	10.13	8.97	10.14	0.000277	1.54	5183.82	4212.56	0.13
Upstream Main	11.2	Floodways	2040.00	5.17	10.75	8.97	10.78	0.000453	2.12	3470.39	2606.56	0.18
Upstream Main	11.1	100-yr	2040.00	5.17	10.12		10.13	0.000282	1.56	5148.57	4209.14	0.14
Upstream Main	11.1	Floodways	2040.00	5.17	10.72		10.76	0.000574	2.38	3093.29	2488.21	0.20
Upstream Main	11.03	100-yr	2040.00	3.27	10.09		10.10	0.000227	1.57	4931.35	3305.19	0.13
Upstream Main	11.03	Floodways	2040.00	3.27	10.59		10.67	0.000751	3.05	2587.17	2489.00	0.23
Upstream Main	11.02	100-yr	2040.00	2.29	10.00		10.01	0.000076	0.91	8091.43	4730.20	0.07
Upstream Main	11.02	Floodways	2040.00	2.29	10.35		10.37	0.000218	1.60	4243.53	2488.00	0.12
Upstream Main	11.017	100-yr	2040.00	3.18	9.97	7.82	9.98	0.000081	0.91	7937.93	4702.31	0.07
Upstream Main	11.017	Floodways	2040.00	3.18	10.31	7.82	10.31	0.000048	0.72	9525.17	4756.66	0.05
Upstream Main	11.015		Culvert									
Upstream Main	11.012	100-yr	2040.00	3.18	9.97		9.98	0.000081	0.91	7937.38	4702.18	0.07
Upstream Main	11.012	Floodways	2040.00	3.18	10.31		10.31	0.000048	0.72	9516.16	4756.49	0.05
Upstream Main	11.01	100-yr	2040.00	3.18	9.97		9.97	0.000082	0.92	7897.14	4692.76	0.07
Upstream Main	11.01	Floodways	2040.00	3.18	10.28		10.30	0.000254	1.66	4060.76	2487.00	0.12
Upstream Main	11	100-yr	2040.00	2.40	9.90		9.91	0.000162	1.72	5503.94	4179.54	0.11
Upstream Main	11	Floodways	2040.00	2.40	10.04		10.12	0.000507	3.08	2697.40	2686.85	0.20
Upstream Main	10.9	100-yr	2040.00	-1.43	9.85		9.86	0.000017	0.67	13360.46	5685.29	0.04
Upstream Main	10.9	Floodways	2040.00	-1.43	9.94		9.94	0.000016	0.64	13853.22	5709.80	0.04
Upstream Main	10.8	100-yr	2040.00	-1.43	9.85	3.59	9.86	0.000017	0.67	13359.47	5685.24	0.04
Upstream Main	10.8	Floodways	2040.00	-1.43	9.93	3.59	9.94	0.000050	1.14	7293.12	3120.87	0.06
Upstream Main	10.75		Inl Struct									
Upstream Main	10.7	100-yr	2040.00	-1.43	9.85		9.85	0.000016	0.65	13993.42	5883.95	0.04
Upstream Main	10.7	Floodways	2040.00	-1.43	9.93		9.93	0.000041	1.03	8220.59	3379.11	0.06
Upstream Main	10.4	100-yr	2064.00	-1.43	9.85		9.85	0.000017	0.65	13993.11	5883.95	0.04
Upstream Main	10.4	Floodways	2064.00	-1.43	9.92		9.93	0.000042	1.04	8219.91	3379.08	0.06
Upstream Main	10.3	100-yr	2064.00	-1.43	9.85	3.63	9.85	0.000017	0.65	13991.33	5883.94	0.04
Upstream Main	10.3	Floodways	2064.00	-1.43	9.92	3.62	9.93	0.000042	1.04	8217.34	3379.08	0.06
Upstream Main	10.25		Culvert									
Upstream Main	10.2	100-yr	2064.00	-1.43	6.58	5.73	6.82	0.001659	5.26	1370.48	1287.22	0.37
Upstream Main	10.2	Floodways	2064.00	-1.43	7.41	5.27	8.26	0.003894	7.73	337.93	72.75	0.51
Upstream Main	10.1	100-yr	2064.00	-1.43	5.67	5.60	6.44	0.005528	8.18	612.53	475.23	0.62
Upstream Main	10.1	Floodways	2064.00	-1.43	6.54		7.77	0.006306	9.14	260.86	52.76	0.64
Upstream Main	9	100-yr	2064.00	-6.18	3.22		3.32	0.000316	2.47	933.67	478.39	0.16
Upstream Main	9	Floodways	2064.00	-6.18	4.08		4.15	0.000231	2.23	925.27	110.00	0.14
Upstream Main	8	100-yr	2064.00	-6.18	2.85		2.89	0.000143	1.59	2015.71	1564.98	0.11
Upstream Main	8	Floodways	2064.00	-6.18	3.80		3.83	0.000108	1.48	1397.09	180.00	0.09
Upstream Main	7	100-yr	2064.00	-6.78	2.66		2.70	0.000184	1.75	2355.18	2129.07	0.12
Upstream Main	7	Floodways	2064.00	-6.78	3.65		3.69	0.000146	1.70	1279.54	200.87	0.11
Upstream Main	3	100-yr	2064.00	-6.78	2.65		2.68	0.000173	1.67	3622.24	4257.20	0.12
Upstream Main	3	Floodways	2064.00	-6.78	3.62		3.67	0.000174	1.84	1189.80	200.87	0.12
Upstream Main	2	100-yr	2064.00	-4.33	2.50		2.54	0.000205	1.70	2194.58	1378.46	0.12
Upstream Main	2	Floodways	2064.00	-4.33	3.50		3.54	0.000164	1.68	1245.48	184.89	0.11
Upstream Main	1	100-yr	2751.00	-4.33	0.52	-1.40	0.75	0.001861	3.89	823.75	396.23	0.35
Upstream Main	1	Floodways	2751.00	-4.33	1.52	-1.39	1.68	0.000928	3.17	868.91	180.20	0.25

ADD2014-00218 Lee County ePlan

VILLA MAGNIFICA

Predevelopment and Postdevelopment Water Stage Comparison

Reach	River Sta	Profile	CE W.S. Elev (ft)	Prop W.S. Elev (ft)	Difference
Upstream Main	21.4	100-yr	14.7312	14.7312	0.00
Upstream Main	21.4	Floodways	15.7718	15.7718	0.00
Upstream Main	21.3	100-yr	14.7311	14.7311	0.00
Upstream Main	21.3	Floodways	15.7714	15.7714	0.00
Upstream Main	21.25				
Upstream Main	21.2	100-yr	14.7281	14.7281	0.00
Upstream Main	21.2	Floodways	15.7659	15.7659	0.00
Upstream Main	21.1	100-yr	14.728	14.728	0.00
Upstream Main	21.1	Floodways	15.7658	15.7658	0.00
Upstream Main	20	100-yr	14.7247	14.7247	0.00
Upstream Main	20	Floodways	15.7626	15.7626	0.00
Upstream Main	19	100-yr	14.7246	14.7246	0.00
Upstream Main	19	Floodways	15.7625	15.7625	0.00
Upstream Main	18.4	100-yr	14.7199	14.7199	0.00
Upstream Main	18.4	Floodways	15.7557	15.7557	0.00
Upstream Main	18.3	100-yr	14.7156	14.7156	0.00
Upstream Main	18.3	Floodways	15.7512	15.7512	0.00
Upstream Main	18.25				
Upstream Main	18.2	100-yr	14.708	14.7079	0.00
Upstream Main	18.2	Floodways	15.7457	15.7457	0.00
Upstream Main	18.1	100-yr	14.7066	14.7065	0.00
Upstream Main	18.1	Floodways	15.7443	15.7443	0.00
Upstream Main	17	100-yr	14.6997	14.6997	0.00
Upstream Main	17	Floodways	15.7376	15.7376	0.00
Upstream Main	16	100-yr	14.6978	14.6977	0.00
Upstream Main	16	Floodways	15.7362	15.7362	0.00
Upstream Main	15	100-yr	14.6279	14.6279	0.00
Upstream Main	15	Floodways	15.6662	15.6662	0.00
Upstream Main	14.4	100-yr	14.5334	14.5333	0.00
Upstream Main	14.4	Floodways	15.5569	15.5569	0.00
Upstream Main	14.3	100-yr	14.5195	14.5194	0.00
Upstream Main	14.3	Floodways	15.5654	15.5654	0.00
Upstream Main	14.25				
Upstream Main	14.2	100-yr	14.5462	14.5462	0.00

ADD2014-00218 Lee County ePlan

VILLA MAGNIFICA

Predevelopment and Postdevelopment Water Stage Comparison

Upstream Main	14.2	Floodways	15.5749	15.5749	0.00
Upstream Main	14.1	100-yr	14.4777	14.4778	0.00
Upstream Main	14.1	Floodways	15.4745	15.4745	0.00
Upstream Main	13.4	100-yr	14.1136	14.1148	0.00
Upstream Main	13.4	Floodways	15.1097	15.1097	0.00
Upstream Main	13.3	100-yr	14.1098	14.111	0.00
Upstream Main	13.3	Floodways	15.1132	15.1132	0.00
Upstream Main	13.25				
Upstream Main	13.2	100-yr	14.1182	14.1183	0.00
Upstream Main	13.2	Floodways	15.115	15.115	0.00
Upstream Main	13.1	100-yr	14.1154	14.1154	0.00
Upstream Main	13.1	Floodways	15.112	15.112	0.00
Upstream Main	12.4	100-yr	13.926	13.926	0.00
Upstream Main	12.4	Floodways	14.9303	14.9303	0.00
Upstream Main	12.3	100-yr	13.9251	13.9251	0.00
Upstream Main	12.3	Floodways	14.9228	14.9228	0.00
Upstream Main	12.25				
Upstream Main	12.2	100-yr	12.7487	12.7485	0.00
Upstream Main	12.2	Floodways	12.881	12.8723	-0.01
Upstream Main	12.1	100-yr	12.581	12.5788	0.00
Upstream Main	12.1	Floodways	12.8496	12.8383	-0.01
Upstream Main	11.4	100-yr	11.9035	11.8967	-0.01
Upstream Main	11.4	Floodways	11.9165	11.8852	-0.03
Upstream Main	11.3	100-yr	11.9028	11.896	-0.01
Upstream Main	11.3	Floodways	11.9142	11.8829	-0.03
Upstream Main	11.25				
Upstream Main	11.2	100-yr	10.1287	10.122	-0.01
Upstream Main	11.2	Floodways	10.7588	10.7193	-0.04
Upstream Main	11.1	100-yr	10.1202	10.1135	-0.01
Upstream Main	11.1	Floodways	10.7321	10.6896	-0.04
Upstream Main	11.03	100-yr	10.0848	10.0778	-0.01
Upstream Main	11.03	Floodways	10.6062	10.5448	-0.06
Upstream Main	11.02	100-yr	10.0004	9.9976	0.00
Upstream Main	11.02	Floodways	10.3587	10.3038	-0.05
Upstream Main	11.017	100-yr	9.9721	9.9727	0.00
Upstream Main	11.017	Floodways	10.3185	10.2722	-0.05

ADD2014-00218 Lee County ePlan

VILLA MAGNIFICA

Predevelopment and Postdevelopment Water Stage Comparison

Upstream Main	11.015				
Upstream Main	11.012	100-yr	9.9721	9.9719	0.00
Upstream Main	11.012	Floodways	10.3185	10.2698	-0.05
Upstream Main	11.01	100-yr	9.964	9.9637	0.00
Upstream Main	11.01	Floodways	10.2901	10.251	-0.04
Upstream Main	11	100-yr	9.8971	9.8971	0.00
Upstream Main	11	Floodways	10.036	10.036	0.00
Upstream Main	10.9	100-yr	9.854	9.854	0.00
Upstream Main	10.9	Floodways	9.9405	9.9405	0.00
Upstream Main	10.8	100-yr	9.8538	9.8538	0.00
Upstream Main	10.8	Floodways	9.9348	9.9348	0.00
Upstream Main	10.75				
Upstream Main	10.7	100-yr	9.8488	9.8488	0.00
Upstream Main	10.7	Floodways	9.9251	9.9251	0.00
Upstream Main	10.4	100-yr	9.8487	9.8487	0.00
Upstream Main	10.4	Floodways	9.9249	9.9249	0.00
Upstream Main	10.3	100-yr	9.8484	9.8484	0.00
Upstream Main	10.3	Floodways	9.9241	9.9241	0.00
Upstream Main	10.25				
Upstream Main	10.2	100-yr	6.5774	6.5774	0.00
Upstream Main	10.2	Floodways	7.4098	7.4098	0.00
Upstream Main	10.1	100-yr	5.6749	5.6749	0.00
Upstream Main	10.1	Floodways	6.5353	6.5353	0.00
Upstream Main	9	100-yr	3.2231	3.2231	0.00
Upstream Main	9	Floodways	4.0752	4.0752	0.00
Upstream Main	8	100-yr	2.8494	2.8494	0.00
Upstream Main	8	Floodways	3.8004	3.8004	0.00
Upstream Main	7	100-yr	2.6588	2.6588	0.00
Upstream Main	7	Floodways	3.6457	3.6457	0.00
Upstream Main	3	100-yr	2.6459	2.6459	0.00
Upstream Main	3	Floodways	3.6208	3.6208	0.00
Upstream Main	2	100-yr	2.5	2.5	0.00
Upstream Main	2	Floodways	3.5	3.5	0.00
Upstream Main	1	100-yr	0.52	0.52	0.00
Upstream Main	1	Floodways	1.52	1.52	0.00