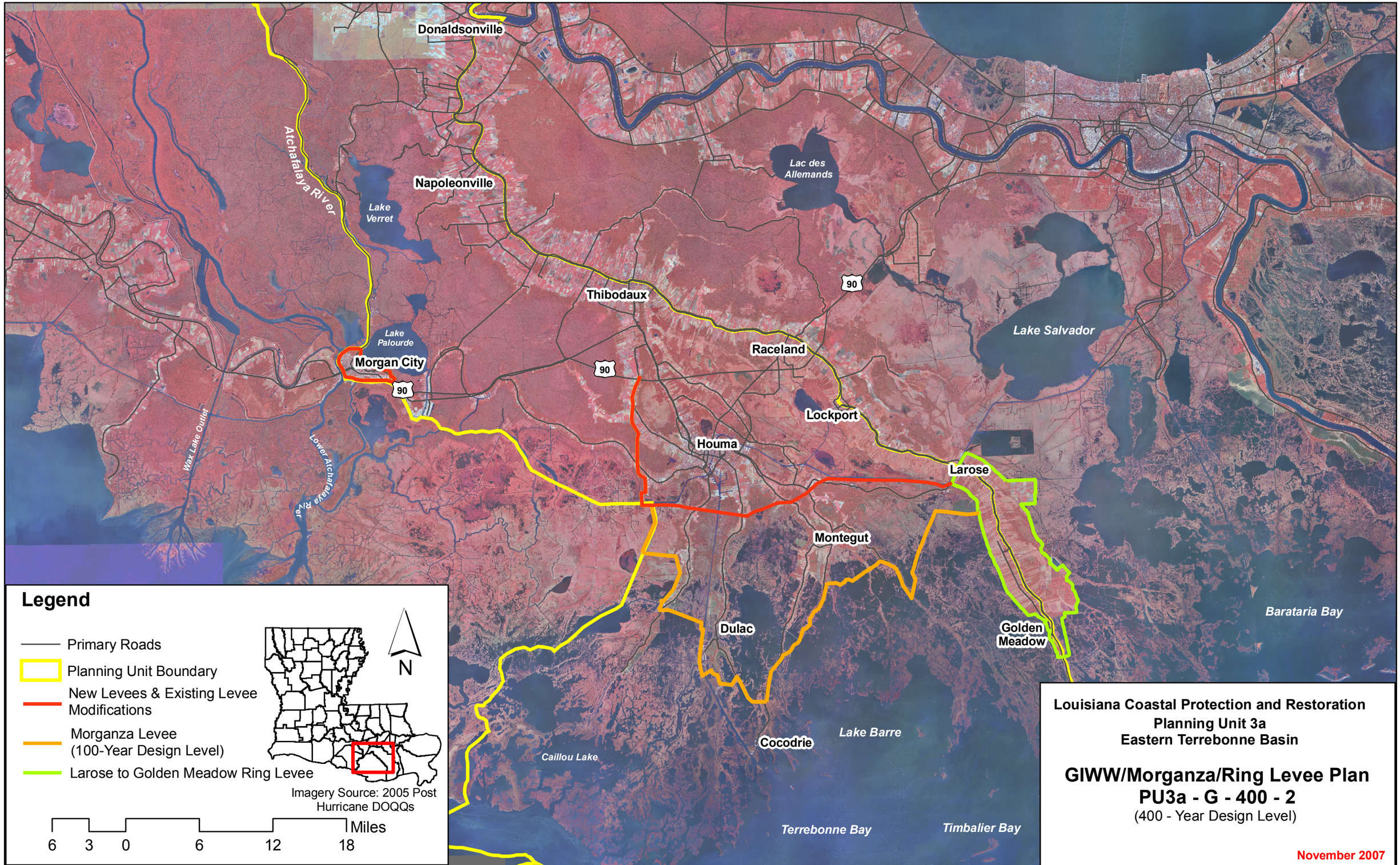
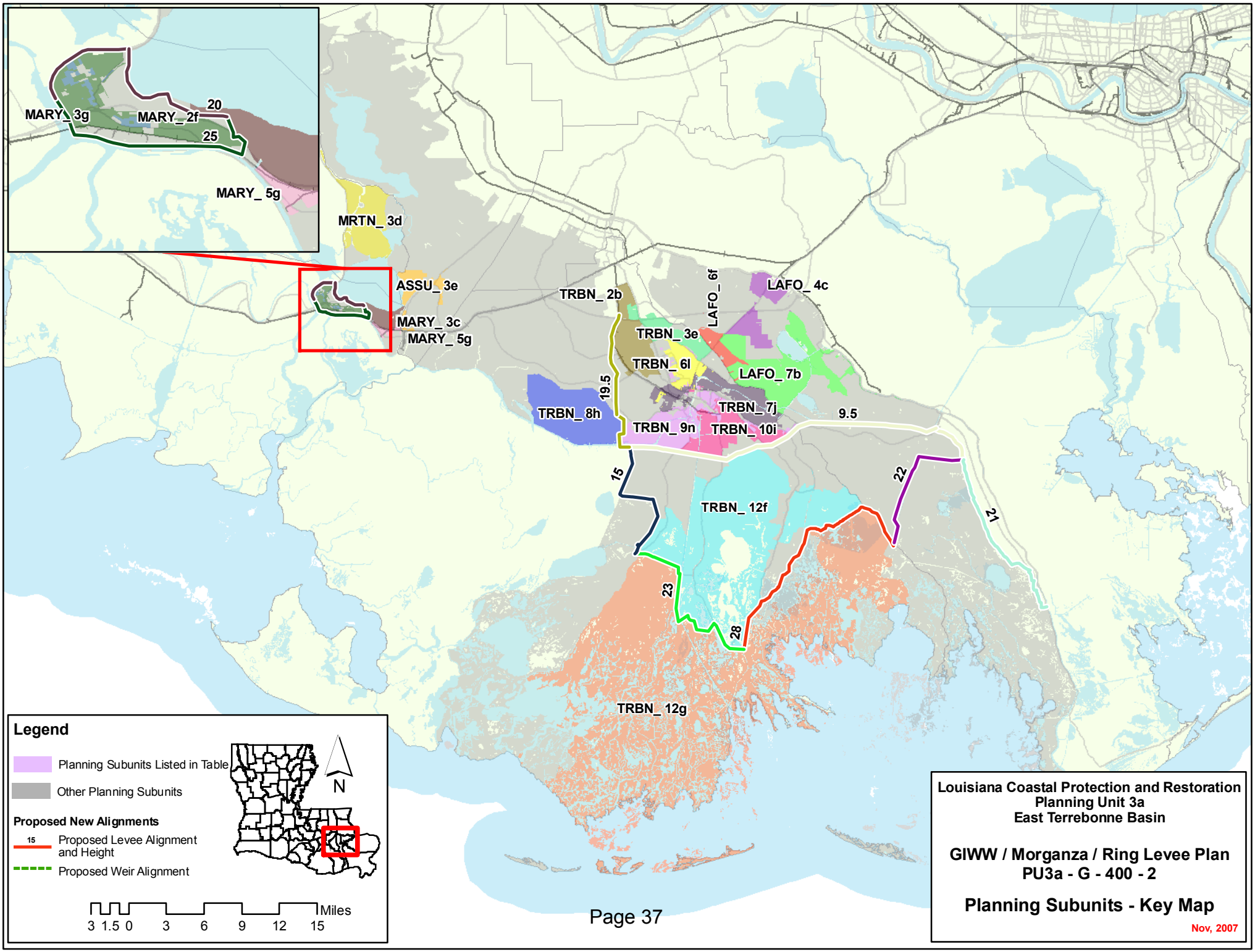

Donaldsonville
Napoleonville
Lake Verret
Atchafalaya River
Lake Palourde
Morgan City
90
Thibodaux
Lac des Allemands
Raceland
Lockport
Houma
Larose
Lake Salvador
Wax Lake Outlet
Lower Atchafalaya River
Montegut
Dulac
Golden Meadow
Barataria Bay
Cocodrie
Lake Barre
Caillou Lake
Terrebonne Bay
Timbalier Bay
Legend
Primary Roads
Planning Unit Boundary
New Levees & Existing Levee Modifications
Morganza Levee (100-Year Design Level)
Larose to Golden Meadow Ring Levee
N
Imagery Source: 2005 Post Hurricane DOQQs
Miles
6 3 0 6 12 18
Louisiana Coastal Protection and Restoration
Planning Unit 3a
Eastern Terrebonne Basin
GIWW/Morganza/Ring Levee Plan
PU3a - G - 400 - 2
(400 - Year Design Level)
November 2007


MARY_ 3g
MARY_ 2f
20
25
MARY_ 5g
MRTN_ 3d
ASSU_ 3e
MARY_ 3c
MARY_ 5g
TRBN_ 2b
LAFO_ 6f
LAFO_ 4c
TRBN_ 3e
TRBN_ 6l
LAFO_ 7b
19.5
TRBN_ 8h
TRBN_ 7j
9.5
TRBN_ 9n
TRBN_ 10i
15
22
TRBN_ 12f
21
23
28
TRBN_ 12g
Legend
Planning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
15
Proposed Levee Alignment and Height
Proposed Weir Alignment
N
Miles
3 1.5 0 3 6 9 12 15
Louisiana Coastal Protection and Restoration
Planning Unit 3a
East Terrebonne Basin
GIWW / Morganza / Ring Levee Plan
PU3a - G - 400 - 2
Planning Subunits - Key Map
Nov, 2007

Alternative: PU3a-G-400-2
Water Surface Elevations (feet - NAVD88 2004.65)

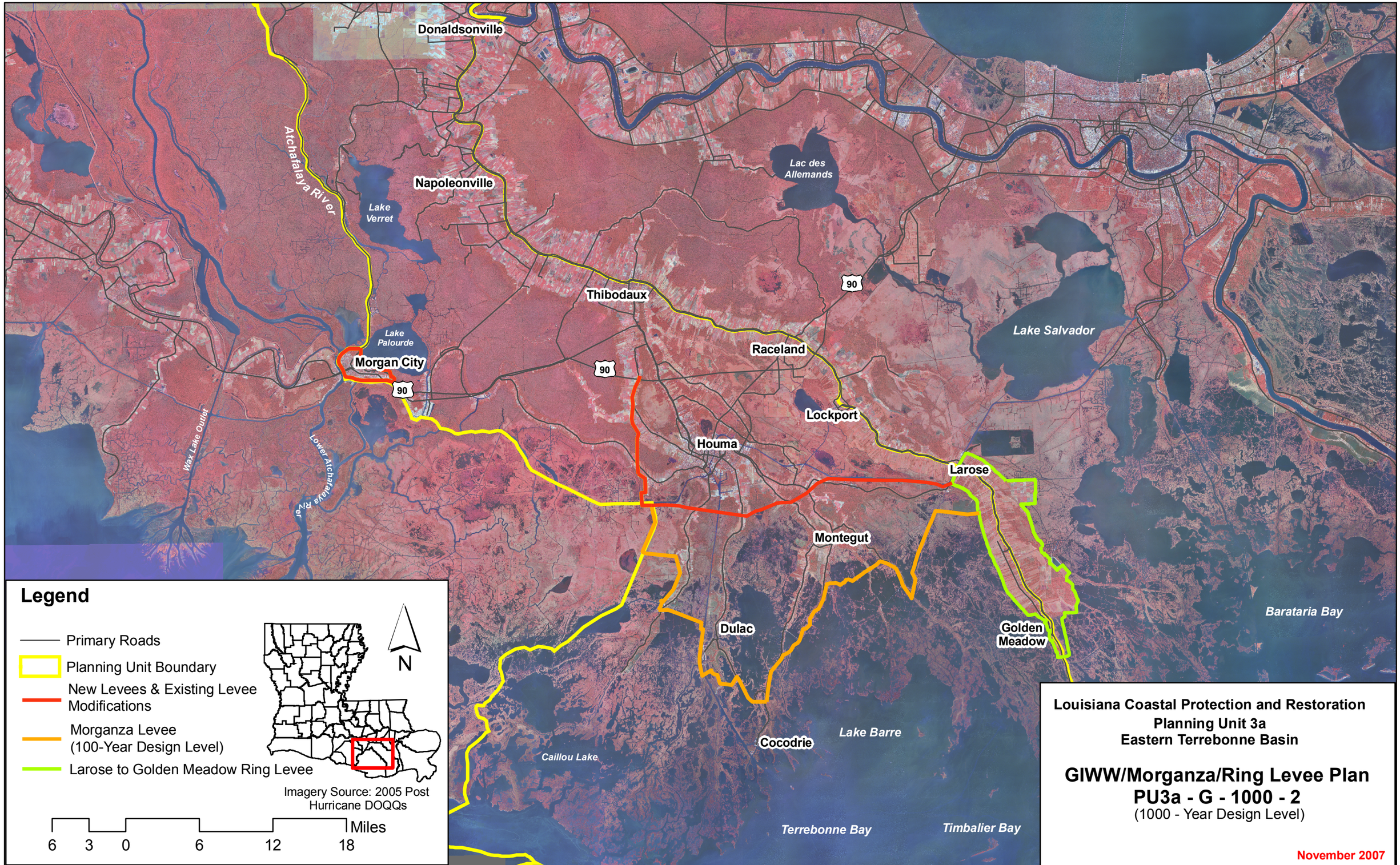
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ASSU_ 3e	7.8	2.8	7.8	3.9	7.8	4.5	11.0	6.0	11.0	7.1	11.0	7.7
LAFO_ 4c	7.8	1.3	7.8	1.4	10.0	9.5	11.0	1.3	11.0	1.4	13.1	9.5
LAFO_ 6f	8.4	1.3	13.4	1.4	16.7	9.5	11.7	1.3	16.6	1.4	19.8	9.5
LAFO_ 7b	7.8	1.3	11.5	1.4	13.6	9.5	11.2	1.3	14.7	1.4	16.7	9.5
MARY_ 2f	7.8	0.8	7.8	1.3	7.8	2.8	11.0	0.8	11.0	1.3	11.0	2.8
MARY_ 3c	7.8	0.9	7.8	3.7	7.8	4.4	11.0	4.1	11.0	6.9	11.0	7.6
MARY_ 3g	7.8	0.8	7.8	1.3	7.8	2.8	11.0	0.8	11.0	1.3	11.0	2.8
MARY_ 5g	7.8	3.0	9.9	4.1	12.0	4.7	11.0	6.2	13.9	7.3	15.6	7.9
MRTN_ 3d	7.8	0.9	7.8	4.0	7.8	4.8	11.0	4.1	11.0	7.2	11.4	8.0
TRBN_ 10i	11.2	1.3	16.1	1.4	19.5	9.5	14.7	1.3	19.1	1.4	22.6	9.5
TRBN_ 12f	13.5	1.0	18.0	6.6	20.8	15.0	16.4	1.0	20.3	6.6	22.8	15.0
TRBN_ 12g	13.2	11.7	16.9	16.3	19.0	18.5	16.4	14.9	19.6	19.5	21.7	21.7
TRBN_ 2b	7.8	1.3	7.9	1.4	9.3	9.5	17.9	1.3	28.5	1.4	32.9	9.5
TRBN_ 3e	7.8	1.3	7.9	1.4	9.3	9.5	11.0	1.3	11.3	1.4	12.7	9.5
TRBN_ 6l	7.8	1.3	8.8	1.4	10.5	9.5	11.0	1.3	12.2	1.4	13.9	9.5
TRBN_ 7j	9.3	1.3	14.0	1.4	16.3	9.5	13.6	1.3	19.5	1.4	22.1	9.5
TRBN_ 8h	9.7	8.6	14.5	13.5	17.4	16.5	13.8	11.8	18.8	16.7	21.7	19.7
TRBN_ 9n	8.4	1.3	12.1	1.4	14.1	9.5	12.6	1.3	17.6	1.4	20.0	9.5

Evaluation Parameters					
	Confidence Level:	90%	Levee Design:	No Friction Waves	
	Future Sea Level Rise:	High	Levee Overtopping:	No Friction Waves	

Planning Unit:	3a	**Alt. No.**	PU3a-G-1000-2	**Category**	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct Morganza to the Gulf levee at the 100-year design level and a second levee along the GIWW with tieback to high ground south of Thibodaux and ring levee around Morgan City providing a 1000-year level of risk reduction for Houma and Morgan City.				
Coastal Component:	R1			**Nonstructural Component:**	None
Structural Component:	See alternative description.				

		Metric Results by Scenario with Uncertainty Bands								
		Life-cycle Cost	Resident Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
		$ Billions	Ann. Equiv. #	Ann. Equiv ($ 1000's)	Ann. Equiv ($ 1000's)	Ann. Equiv #	Ann. Equiv ($ 1000's)	# Sites	# Properties	# Districts
Scenario 1	**Low**		9,187	461,856	526,820	1,681	96,600	128	16	1
	Mean	50.9	14,418	913,005	949,915	3,357	180,927	151	17	1
	High		15,938	1,211,854	1,224,586	4,667	240,089	174	17	1
Scenario 2	**Low**		9,573	496,383	621,697	1,862	113,833	128	16	1
	Mean	51.4	14,728	945,541	984,724	3,452	189,137	151	16	1
	High		16,117	1,244,064	1,257,870	4,767	248,344	174	16	1
Scenario 3	**Low**		7,958	397,799	489,332	1,535	88,048	128	16	1
	Mean	50.9	12,453	784,012	885,491	3,124	166,427	151	16	1
	High		14,268	1,040,036	1,133,885	4,264	218,926	174	17	1
Scenario 4	**Low**		8,238	429,454	586,992	1,718	106,268	128	16	1
	Mean	51.4	12,695	815,659	920,730	3,221	175,068	151	16	1
	High		14,399	1,072,165	1,164,499	4,354	226,398	174	16	1

Other Metric Results							
Construction Time (years)	10	**Wetlands Created/ Protected (acres)**	**Scen 1&3**	**Scen 2&4**	**PV Cost of NS Comp ($ Billions)**	**Scen 1&2**	**Scen 3&4**
Direct Wetland Impacts (acres)	-6,642		107,662	110,019		**N/A**	**N/A**
Indirect Impacts	-5	**PV Cost of Coastal Component ($ Billions)**	23.28	23.70			
Spatial Integrity	0.525						
		PV Cost of Structural Component ($ Billions)	27.63	27.70			


Donaldsonville
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Lake Palourde
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Thibodaux
Lac des Allemands
Raceland
Lockport
Houma
Larose
Lake Salvador
Wax Lake Outlet
Lower Atchafalaya River
Montegut
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Golden Meadow
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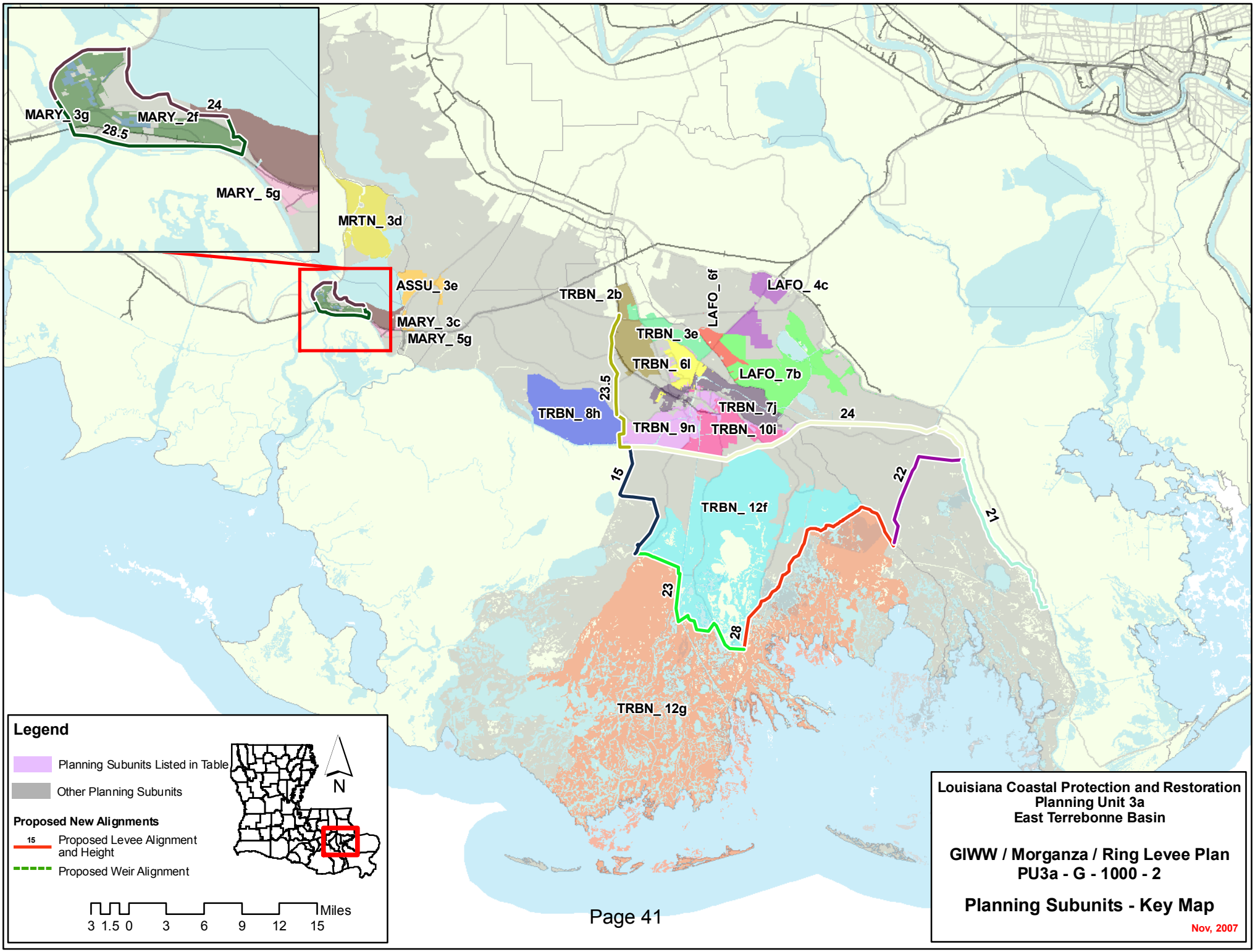
Caillou Lake
Terrebonne Bay
Timbalier Bay
Legend
Primary Roads
Planning Unit Boundary
New Levees & Existing Levee Modifications
Morganza Levee (100-Year Design Level)
Larose to Golden Meadow Ring Levee
N
Imagery Source: 2005 Post Hurricane DOQQs
Miles
6 3 0 6 12 18
Louisiana Coastal Protection and Restoration
Planning Unit 3a
Eastern Terrebonne Basin
GIWW/Morganza/Ring Levee Plan
PU3a - G - 1000 - 2
(1000 - Year Design Level)
November 2007


MARY_ 3g
MARY_ 2f
24
28.5
MARY_ 5g
MRTN_ 3d
ASSU_ 3e
MARY_ 3c
MARY_ 5g
TRBN_ 2b
LAFO_ 6f
LAFO_ 4c
TRBN_ 3e
TRBN_ 6l
LAFO_ 7b
23.5
TRBN_ 8h
TRBN_ 7j
24
TRBN_ 9n
TRBN_ 10i
15
22
TRBN_ 12f
21
23
28
TRBN_ 12g
Legend
Planning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
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Proposed Levee Alignment and Height
Proposed Weir Alignment
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Miles
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Louisiana Coastal Protection and Restoration
Planning Unit 3a
East Terrebonne Basin
GIWW / Morganza / Ring Levee Plan
PU3a - G - 1000 - 2
Planning Subunits - Key Map
Nov, 2007

Alternative: PU3a-G-1000-2
Water Surface Elevations (feet - NAVD88 2004.65)

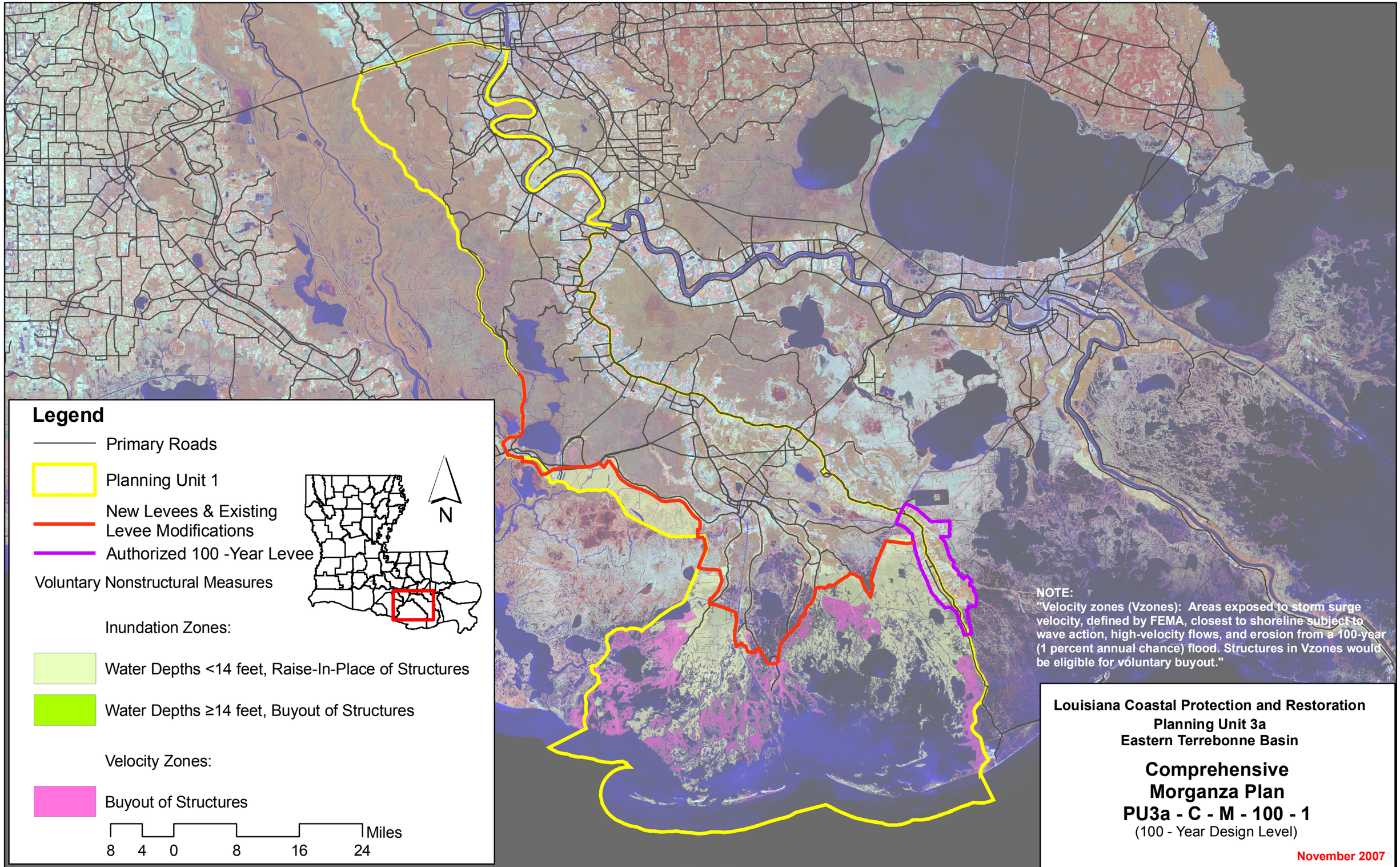
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ASSU_ 3e	7.8	2.8	7.8	3.9	7.8	4.5	11.0	6.0	11.0	7.1	11.0	7.7
LAFO_ 4c	7.8	1.3	7.8	1.3	10.0	1.4	11.0	1.3	11.0	1.3	13.1	1.4
LAFO_ 6f	8.4	1.3	13.4	1.3	16.7	1.4	11.7	1.3	16.6	1.3	19.8	1.4
LAFO_ 7b	7.8	1.3	11.5	1.3	13.6	1.4	11.2	1.3	14.7	1.3	16.7	1.4
MARY_ 2f	7.8	0.8	7.8	0.9	7.8	1.3	11.0	0.8	11.0	0.9	11.0	1.3
MARY_ 3c	7.8	0.9	7.8	3.7	7.8	4.4	11.0	4.1	11.0	6.9	11.0	7.6
MARY_ 3g	7.8	0.8	7.8	0.9	7.8	1.3	11.0	0.8	11.0	0.9	11.0	1.3
MARY_ 5g	7.8	3.0	9.9	4.1	12.0	4.7	11.0	6.2	13.9	7.3	15.6	7.9
MRTN_ 3d	7.8	0.9	7.8	4.0	7.8	4.8	11.0	4.1	11.0	7.2	11.4	8.0
TRBN_ 10i	11.2	1.3	16.1	1.3	19.5	1.4	14.7	1.3	19.1	1.3	22.6	1.4
TRBN_ 12f	13.5	1.0	18.0	6.6	20.8	15.0	16.4	1.0	20.3	6.6	22.8	15.0
TRBN_ 12g	13.2	11.7	16.9	16.3	19.0	18.5	16.4	14.9	19.6	19.5	21.7	21.7
TRBN_ 2b	7.8	1.3	7.9	1.3	9.3	1.4	17.9	1.3	28.5	1.3	32.9	1.4
TRBN_ 3e	7.8	1.3	7.9	1.3	9.3	1.4	11.0	1.3	11.3	1.3	12.7	1.4
TRBN_ 6l	7.8	1.3	8.8	1.3	10.5	1.4	11.0	1.3	12.2	1.3	13.9	1.4
TRBN_ 7j	9.3	1.3	14.0	1.3	16.3	1.4	13.6	1.3	19.5	1.3	22.1	1.4
TRBN_ 8h	9.7	8.6	14.5	13.5	17.4	16.5	13.8	11.8	18.8	16.7	21.7	19.7
TRBN_ 9n	8.4	1.3	12.1	1.3	14.1	1.4	12.6	1.3	17.6	1.3	20.0	1.4

Evaluation Parameters					
	Confidence Level:	90%	Levee Design:	No Friction Waves	
	Future Sea Level Rise:	High	Levee Overtopping:	No Friction Waves	

Planning Unit:	3a	Alt. No.	PU3a-C-M-100-1	Category	Comprehensive (Coastal + Structural + Nonstructural)
Alternative Description:	Comprehensive plan--Same as Alternative PU3a-M-100-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1			Nonstructural Component:	See alternative description.
Structural Component:	See alternative description.				

		Metric Results by Scenario with Uncertainty Bands								
		Life-cycle Cost	Resident Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
		$ Billions	Ann. Equiv. #	Ann. Equiv ($ 1000's)	Ann. Equiv ($ 1000's)	Ann. Equiv #	Ann. Equiv ($ 1000's)	# Sites	# Properties	# Districts
Scenario 1	Low		9,823	422,072	483,992	1,662	91,203	157	13	0
	Mean	45.37	15,012	854,066	883,280	3,301	170,457	180	17	1
	High		16,519	1,160,671	1,146,663	4,519	228,864	203	18	1
Scenario 2	Low		10,034	444,466	540,991	1,796	103,140	157	8	0
	Mean	46.31	15,069	876,464	950,899	3,448	185,082	180	14	1
	High		16,529	1,180,440	1,169,094	4,595	234,838	203	18	1
Scenario 3	Low		8,612	364,265	455,762	1,540	84,042	157	13	0
	Mean	45.36	13,055	732,280	819,674	3,077	155,758	180	17	1
	High		14,849	991,718	1,063,729	4,141	208,624	203	18	1
Scenario 4	Low		8,758	384,290	509,490	1,669	95,903	157	8	0
	Mean	46.30	13,105	753,535	891,559	3,231	171,543	180	14	1
	High		14,857	1,010,829	1,082,297	4,205	213,656	203	18	1

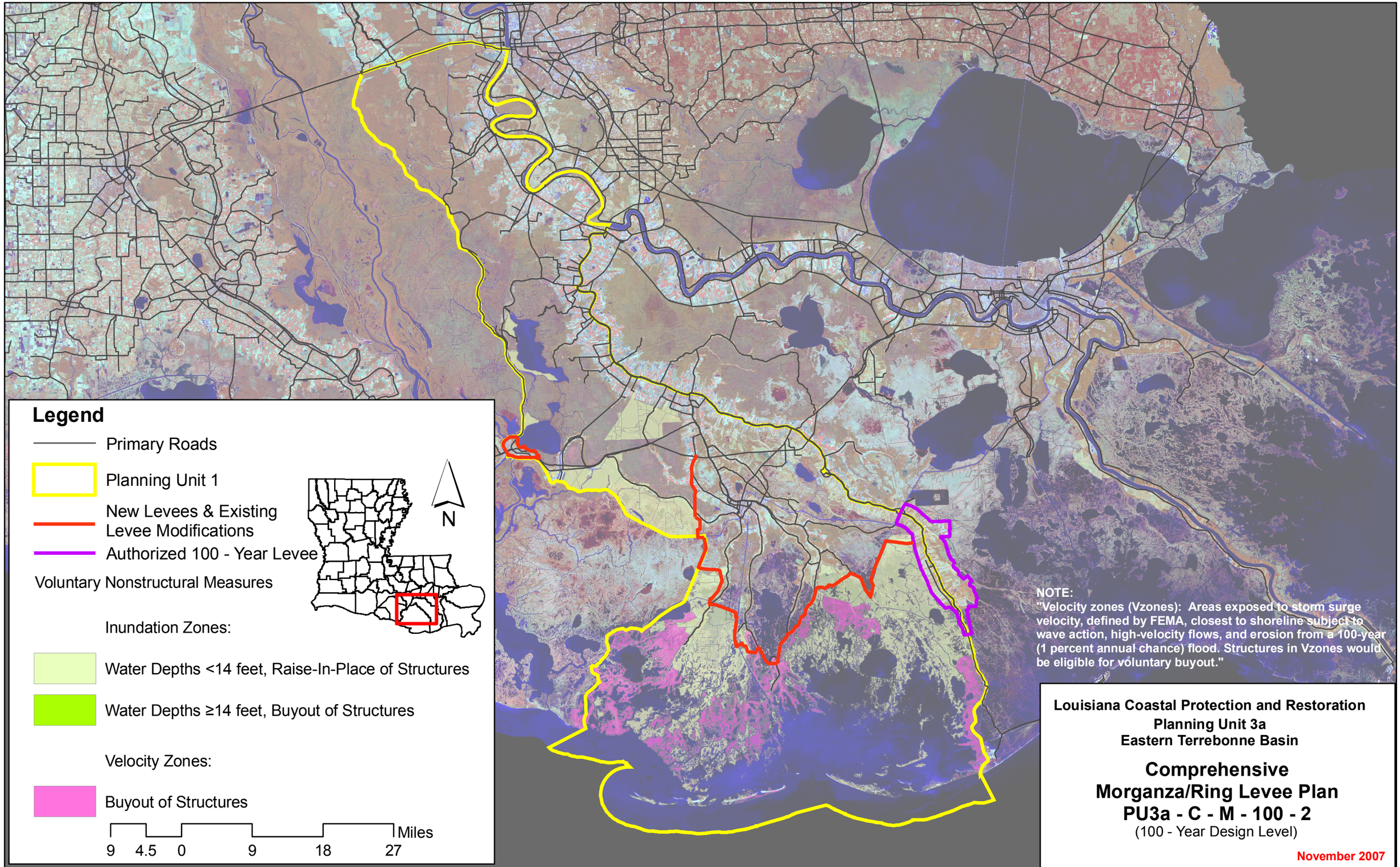
Other Metric Results							
Construction Time (years)	10	Wetlands Created/ Protected (acres)	Scen 1&3	Scen 2&4	PV Cost of NS Comp ($ Billions)	Scen 1&2	Scen 3&4
Direct Wetland Impacts (acres)	-4,880		107,662	110,019		0.68	0.67
Indirect Impacts	-5	PV Cost of Coastal Component ($ Billions)	23.28	23.70			
Spatial Integrity	0.525						
		PV Cost of Structural Component ($ Billions)	21.41	21.93			


Legend
Primary Roads
Planning Unit 1
New Levees & Existing Levee Modifications
Authorized 100 -Year Levee
Voluntary Nonstructural Measures
Inundation Zones:
Water Depths <14 feet, Raise-In-Place of Structures
Water Depths ≥14 feet, Buyout of Structures
Velocity Zones:
Buyout of Structures
8 4 0 8 16 24 Miles
N
NOTE:
"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."
Louisiana Coastal Protection and Restoration
Planning Unit 3a
Eastern Terrebonne Basin
Comprehensive
Morganza Plan
PU3a - C - M - 100 - 1
(100 - Year Design Level)
November 2007

Planning Unit:	3a	Alt. No.	PU3a-C-M-100-2	Category	Comprehensive (Coastal + Structural + Nonstructural)
Alternative Description:	Comprehensive plan--Same as Alternative PU3a-M-100-2 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1			Nonstructural Component:	See alternative description.
Structural Component:	See alternative description.				

		Metric Results by Scenario with Uncertainty Bands								
		Life-cycle Cost	Resident Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
		$ Billions	Ann. Equiv. #	Ann. Equiv ($ 1000's)	Ann. Equiv ($ 1000's)	Ann. Equiv #	Ann. Equiv ($ 1000's)	# Sites	# Properties	# Districts
Scenario 1	Low		9,227	403,281	478,331	1,563	89,256	128	10	0
	Mean	45.97	14,637	843,183	885,703	3,226	169,969	151	14	1
	High		16,492	1,168,116	1,181,366	4,533	234,255	174	17	1
Scenario 2	Low		9,613	435,246	541,943	1,708	102,152	128	8	0
	Mean	46.51	14,947	878,040	966,436	3,392	186,391	151	11	0
	High		16,671	1,204,289	1,214,622	4,633	242,508	174	15	1
Scenario 3	Low		8,009	345,693	448,768	1,439	81,833	128	10	0
	Mean	46.12	12,640	720,833	820,723	2,999	154,907	151	14	1
	High		14,752	997,136	1,092,827	4,140	212,855	174	17	1
Scenario 4	Low		8,289	374,835	509,375	1,579	94,745	128	8	0
	Mean	46.66	12,882	754,009	905,166	3,171	172,521	151	11	0
	High		14,883	1,031,951	1,123,421	4,229	220,325	174	15	1

Other Metric Results							
Construction Time (years)	10	Wetlands Created/ Protected (acres)	Scen 1&3	Scen 2&4	PV Cost of NS Comp ($ Billions)	Scen 1&2	Scen 3&4
Direct Wetland Impacts (acres)	-4,201		107,662	110,019		3.71	3.86
Indirect Impacts	-5	PV Cost of Coastal Component ($ Billions)	23.28	23.70			
Spatial Integrity	0.525						
		PV Cost of Structural Component ($ Billions)	18.98	19.10			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Planning Unit 1
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Water Depths ≥14 feet, Buyout of Structures
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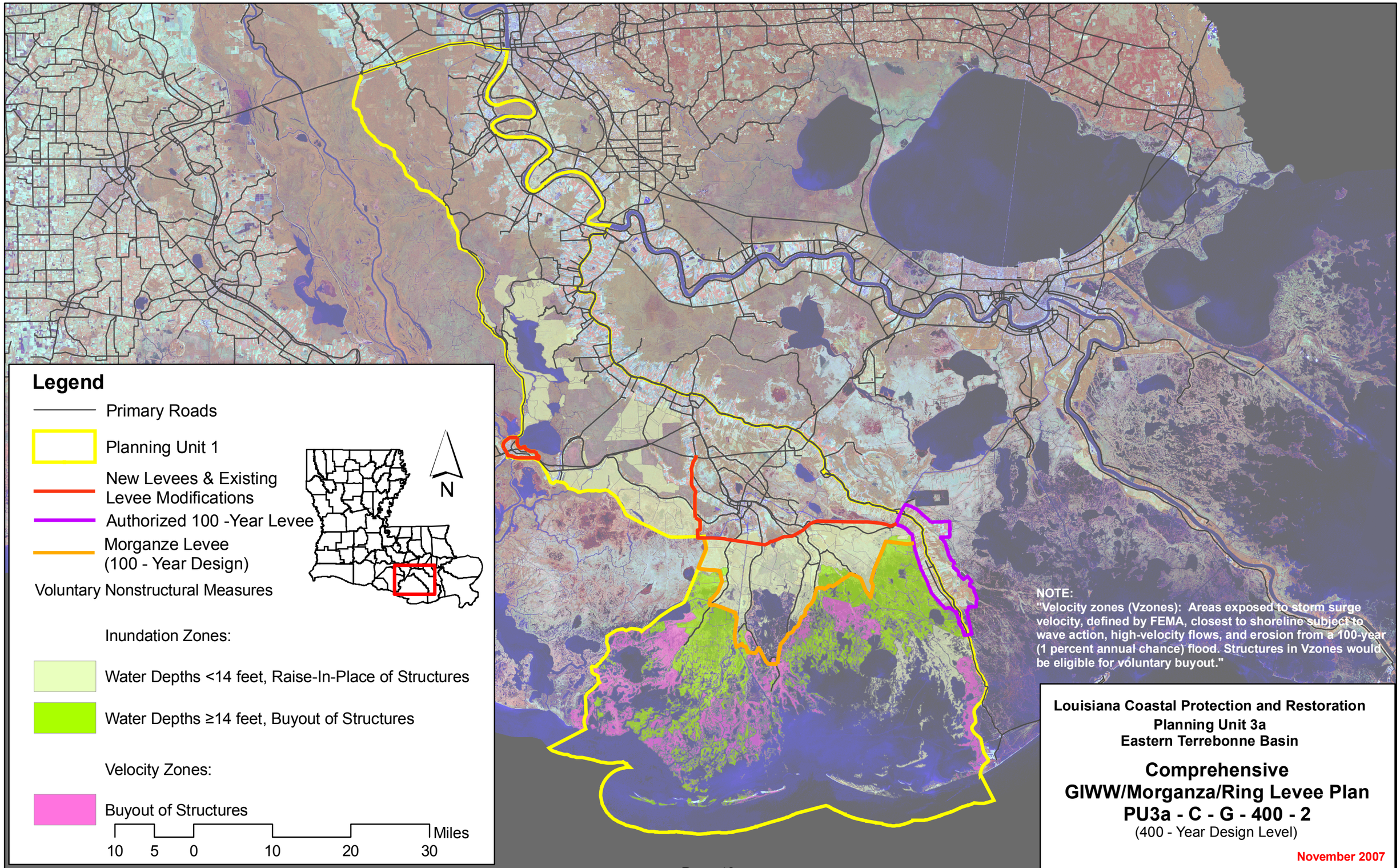
Buyout of Structures
9 4.5 0 9 18 27 Miles
N
NOTE:
"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."
Louisiana Coastal Protection and Restoration
Planning Unit 3a
Eastern Terrebonne Basin
Comprehensive
Morganza/Ring Levee Plan
PU3a - C - M - 100 - 2
(100 - Year Design Level)
November 2007

Planning Unit:	3a	**Alt. No.**	PU3a-C-G-400-2	**Category**	Comprehensive (Coastal + Structural + Nonstructural)
Alternative Description:	Comprehensive plan--Same as Alternative PU3a-G-400-2 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1			**Nonstructural Component:**	See alternative description.
Structural Component:	See alternative description.				

		Metric Results by Scenario with Uncertainty Bands								
		Life-cycle Cost	Resident Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
		$ Billions	Ann. Equiv. #	Ann. Equiv ($ 1000's)	Ann. Equiv ($ 1000's)	Ann. Equiv #	Ann. Equiv ($ 1000's)	# Sites	# Properties	# Districts
Scenario 1	**Low**		8,956	413,335	481,127	1,589	89,044	128	5	1
	Mean	51.08	14,188	835,512	863,535	3,173	165,205	151	11	1
	High		15,707	1,112,472	1,061,671	4,217	209,591	174	13	1
Scenario 2	**Low**		9,343	443,006	539,183	1,721	100,467	128	4	1
	Mean	51.57	14,498	865,528	905,652	3,280	175,503	151	9	1
	High		15,887	1,141,801	1,095,416	4,315	218,510	174	11	1
Scenario 3	**Low**		7,699	351,741	447,513	1,454	80,694	128	5	1
	Mean	51.12	12,195	711,642	798,088	2,945	149,995	151	11	1
	High		14,011	946,864	975,614	3,839	188,950	174	13	1
Scenario 4	**Low**		7,978	378,585	503,248	1,581	92,067	128	4	1
	Mean	51.61	12,437	740,461	841,190	3,055	160,880	151	9	1
	High		14,143	975,733	1,006,703	3,926	197,106	174	11	1

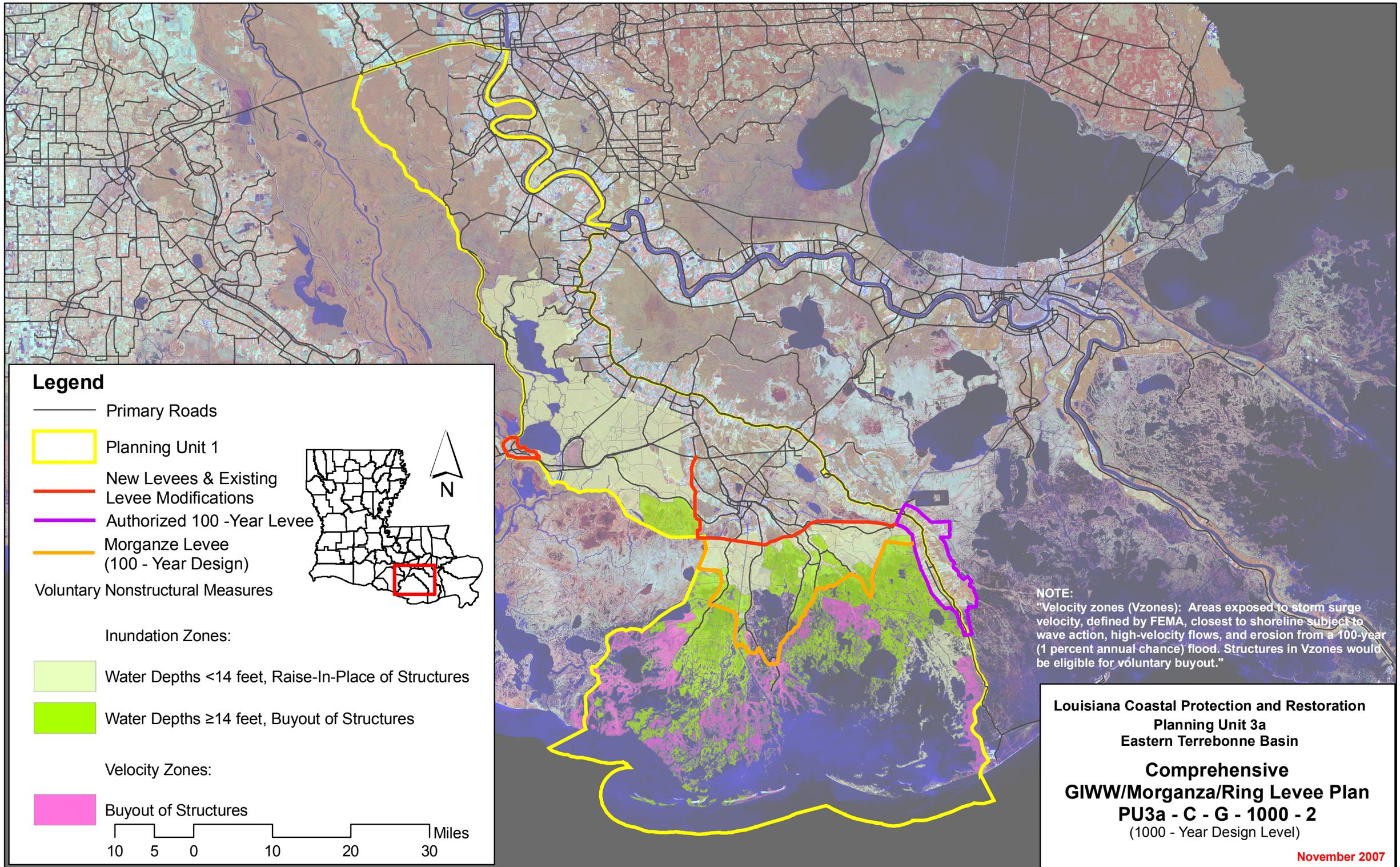
Other Metric Results							
Construction Time (years)	10	**Wetlands Created/ Protected (acres)**	**Scen 1&3**	**Scen 2&4**	**PV Cost of NS Comp ($ Billions)**	**Scen 1&2**	**Scen 3&4**
Direct Wetland Impacts (acres)	-5,261		107,662	110,019		**2.59**	**2.63**
Indirect Impacts	-5	**PV Cost of Coastal Component ($ Billions)**	23.28	23.70			
Spatial Integrity	0.525						
		PV Cost of Structural Component ($ Billions)	25.21	25.28			


Legend
Primary Roads
Planning Unit 1
New Levees & Existing Levee Modifications
Authorized 100 -Year Levee
Morganze Levee (100 - Year Design)
Voluntary Nonstructural Measures
Inundation Zones:
Water Depths <14 feet, Raise-In-Place of Structures
Water Depths ≥14 feet, Buyout of Structures
Velocity Zones:
Buyout of Structures
10 5 0 10 20 30 Miles
N
NOTE:
"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."
Louisiana Coastal Protection and Restoration
Planning Unit 3a
Eastern Terrebonne Basin
Comprehensive
GIWW/Morganza/Ring Levee Plan
PU3a - C - G - 400 - 2
(400 - Year Design Level)
November 2007

Planning Unit:	3a	Alt. No.	PU3a-C-G-1000-2	Category	Comprehensive (Coastal + Structural + Nonstructural)
Alternative Description:	Comprehensive plan--Same as Alternative PU3a-G-1000-2 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1			Nonstructural Component:	See alternative description.
Structural Component:	See alternative description.				

		Metric Results by Scenario with Uncertainty Bands								
		Life-cycle Cost	Resident Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
		$ Billions	Ann. Equiv. #	Ann. Equiv ($ 1000's)	Ann. Equiv ($ 1000's)	Ann. Equiv #	Ann. Equiv ($ 1000's)	# Sites	# Properties	# Districts
Scenario 1	Low		8,242	396,534	462,799	1,528	85,166	128	16	1
	Mean	54.22	13,456	816,270	840,442	3,101	160,375	151	17	1
	High		14,915	1,086,395	1,031,798	4,127	203,550	174	17	1
Scenario 2	Low		8,629	422,516	516,947	1,651	95,840	128	16	1
	Mean	54.71	13,766	842,382	872,363	3,188	167,863	151	16	1
	High		15,095	1,112,678	1,062,145	4,219	211,031	174	16	1
Scenario 3	Low		7,081	338,603	432,901	1,403	77,676	128	16	1
	Mean	54.29	11,558	696,351	778,479	2,883	145,970	151	16	1
	High		13,316	925,116	949,053	3,759	183,649	174	17	1
Scenario 4	Low		7,361	362,142	484,390	1,521	88,218	128	16	1
	Mean	54.78	11,800	721,349	810,695	2,971	153,859	151	16	1
	High		13,448	950,482	976,132	3,839	190,277	174	16	1

Other Metric Results							
Construction Time (years)	10	Wetlands Created/ Protected (acres)	Scen 1&3	Scen 2&4	PV Cost of NS Comp ($ Billions)	Scen 1&2	Scen 3&4
Direct Wetland Impacts (acres)	-6,642		107,662	110,019		3.31	3.38
Indirect Impacts	-5	PV Cost of Coastal Component ($ Billions)	23.28	23.70			
Spatial Integrity	0.525						
		PV Cost of Structural Component ($ Billions)	27.63	27.70			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