Y N N/A		Urban Service District & Urban Planning Area			
	1.	1. Name of proposed development 24.5.4.7.1			
	2.	2. Name of developer 24.5.4.7.2			
	3.	3. Signature of Civil Engineer, Seal 24.5.4.8; R.S.37:696-LAC19-3:(10.2, 10.3, 10.4)			
		a. Plat required 24.5.4.6.5; R.S.33:5051			
		b. Specifications received 24.5.3.3			
	4.	Vicinity map 24.5.4.7.4			
	5.	Located by Township, Range and Section 24.5.4.3.7.E			
		a. Section, Township, Range, City Limits, and/or Parish Boundaries which abut or cross the proposed subdivision <i>24.5.4.7.8</i>			
	6.	Date, scale (1" = 200 ' minimum suggested) and north arrow $24.5.4.7.5$			
	7. 8.	Preliminary approval granted and written staff comments submitted 24.5.3.3 Development Improvements Residential			
		a. Proposed street names 24.5.4.7.6			
		b. Lot and block numbers 24.5.4.7.6			
		 c. Alignment of existing streets, rights-of-way, easements, and servitudes which join or cross the proposed subdivision shown 24.5.4.7.7 1. Right-of-way 			
		a. City/residential - no street less than 40' 24.7.6.1.3			
		1. Blocks \leq 600' in length 24.7.6.3			
		2. Roadway			
		a. Street jogs with centerline offsets of less than 125' avoided 24.7.6.1.5			
		b. City - test cylinders (2,750 psi @ 7 days or 4,000 psi @ 28 days) & 2 per 500' of pavement 24.7.6.1.9, 24.7.6.1.10			
		1. General - 6" thick, 27' wide from back-to-back of curb PCC pavement or equivalent asphaltic concrete design with curb and gutter. Curb must be roll-over not less than 12" in width and 4" ir height and/or barrier type curb not less than 6" in width and 6" ir height 24.7.1.1.1			
		d. Cul-de-sacs & Turnarounds			
		1. Cul-de-sacs as per A.A.S.H.T.O. specifications (1984) inside radius \geq 35' 24.7.6.1.6			
		2. Turnarounds 80' wide by 40' each side of centerline 24.7.6.1.6			
		e. Plans use current LADOTD construction standards 24.7.6.1.10			
		f. Street and Traffic signs as per "Louisiana Manual on Uniform Traffic Control			
Page 1		8/1/2008			

Y N N/A		Urban Service District & Urban Planning Area Devices" 24.7.6.1.7
	g.	Profiles of all streets 24.5.4.8.3
	h. i.	No more than one lot created at the end of a stubout cross street 24.7.6.3.1 Lots
		1. Lot size shall be sufficient to provide set back to conform to the Urban Service District Zoning Code 24.7.1.1.2
		2. Lot size shall be sufficient to provide space for residence and off-street parking in single-family and multi-family residential areas consisting of two (2) parking spaces per dwelling unit 24.7.1.1.3
		3. Minimum residential lot size shall be 6000 sq. ft. if connected to a sewerage disposal system (public or private) that is approved by the state department of health and hospitals 24.7.1.1.4
		4. All lots must front along a public roadway or a servitude of passage 24.7.1.1.4
		5. All lots shall contain adequate footage and depth to enclose a 50' square, none of which may encroach upon a public road right-of-way or access servitude to adjacent property 24.7.1.1.4
		6. Minimum frontage width of a lot or servitude of passage is 25' 24.7.1.1.4
		7. Primary means of access is a publicly dedicated street, alley, or on a non-publicly dedicated passageway for vehicular traffic 24.7.1.5
	0 D	8. If subdivision involves new street construction: No primary access is an arterial, major or collector street 24.7.1.5 rainage
	9. D a.	7
		Existing contours at one (1) foot intervals or less shown on final drainage plan 24.5.4.8
	c. d.	All lots graded to drain to the street or to major drainage arteries as defined by the SDDM 24.7.1.2.6 Rights-of-way
		1. Definition 22-186
		2. Construction in right-of-way without consent 22-189
		 3. Storm drainage pipe shall be located within street right-of-way, special outfall or interconnection right-of-way may be required 24.7.1.2.6 4. Servitudes not adjacent to roadway:
		a. 15' on both sides of ditch that is less than 4' in depth and less than 18'in width plus width of ditch 24.7.6.2.2.i
		b. 15' on one side and 20' on the other side of a ditch greater than or
Page 2		8/1/2008

Y N N/A	Urban Service District & Urban Planning Area equal to 4' in depth or greater than or equal to 18' in width plus width of ditch 24.6.2.2.i.i
	 c. Can right-of-way be accessed e. Complies with the T.P.C.G. Storm Drainage Design Manual as per 24.7.6.2.6 IV. HYDROLOGY
	A. Rainfall
	Desgined for 25-year, 24-hour duration as defined by TP40 (Exhibit 3)
	Discharge limited to 10-year, 24-hour pre-development unless downstream improvements are made as to not cause adverse impacts (Exhibit 4)
	B. Hydrologic Data: Preliminary Plan
	Vicinity Map
	Topographic Map
	Aerial photographs Stream flow records
	Historical high water elevations
	FEMA 100 year flood elevation
	Soil types
	Land use
	Slope
	Surface infiltration
	Storage
	C. Coordination: Maximum stage elevation furnished or approved by Terrebonne Parish Engineering DivisionD. Runoff Computation, Hydrograph Development and Modeling:
	Rational Method
	Drainage area no greater than 150 acres
	c value taken from Exhibit 5
	DOTD HYDR6020 and HYDR6000 used for storm drain and
	inlet spacing
	2. Soil Conservation Service (SCS) Method (NRCS) (TR-55)
	Curve Number (CN) taken from Exhibit 5
	Type III, 24-hour rainfall distribution
	Shape factor 256
	3. Unit Hydrograph Method (HEC-1, SWMM, TR-20)
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Y	N N/A	Urban Service District & Urban Planning Area E. Flood Routing:
		1. Stream Flow Routing
		2. Reservoir Routing
		F. Land Use
		G. Datum: Elevation referenced to the latest Parish adopted Vertical Datum
		 H. Gage Reading (Historic Data) at major drainage artery V. HYDRAULIC DESIGN A. Storm Design Requirements: 1. Existing site plan:
		Minimum scale 1"=100'
		Drainage features
		1 foot contours
		Utilities
		Roads
		Structures
		Impervious areas
		Flood encroachment areas 2. Proposed site plan:
		Minimum scale 1"=100'
		Streets
		Utilities
		Drainage features
		Lot lines
		Lot grading
		Discharge canals
		Location of major drainage artery 3. Plan/Profile Sheets Drainage
		Horizontal Scale 1"=50' minimum
		Vertical Scale 1"=5' minimum
		Roads
		Horizontal Scale 1"=40' minimum
		Vertical Scale 1"=4' minimum
Pa	ge 4	8/1/2008

Y	N N/A	Urban Service District & Urban Planning Area Geometric layout
		Centerline
		Roadway stations
		Finished centerline slopes (0.35% minimum curb and gutter)
		Points of vertical intersection
		Drainpipes
		Size
		Туре
		Invert elevation Structures & Utility lines
		Size
		Туре
		Invert elevation
		Top elevation
		Finished grade at right-of-way
		Hydraulic gradient
		Tailwater elevation
		Ditch flow lines
		Utility lines
		Dimension of all servitudes
		North arrow
		Legend 4. Drainage Map/Hydraulic Computations Drainage Map
		All drainage features
		Right-of-ways and servitudes
		Tributary areas
		Watershed boundaries
		Structure reference numbers
		Discharge points
		North arrow
		Legend

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Y N N/A	Urban Service District & Urban Planning Area Hydraulic Computations
	Design criteria
	Rounded to nearest 0.10 foot
	Maximum stages at all nodes
	Tailwater elevation
	Graphic representation of surface and subsurface flow
	Statement of no adverse impact
	Maximum flows (pre vs. post)
	Volume runoff (pre vs. post)
	Hydrographs at discharge points (pre vs. post) (Exhibit 6)
	Runoff factors
	Time of concentration
	Land slope
	Onsite elevation determined by routing flows from
	downstream tailwater elevation 5. Typical roadway section
	Roadway width
	Roadway width Roadway thickness
	Shoulder width
	Ditch dimensions
	Ditch side slopes
	Location of all utilities
	Subsurface drainage location
	Right-of-way width
	Transverse road slopes
	6. Lot drainage
	Storm drain pipe located within street right-of-way
	Special servitude for interconnection or outfall purposes within subdivision
	All lots inside the Urban Services District and Urban Planning Area graded to drain to the street or to a Major Drainage Artery (Exhibit 1)
	All lots inside Rural Subdivisions graded to drain to the street or to a Major Drainage Artery (Exhibit 1)
Page 6	8/1/2008

Y N N/A	Urban Service District & Urban Planning Area Outside the Urban Services District and Urban Planning Are HTRPC can allow a portion to drain to the rear if:		
	Drainage is to be perpetually privately maintained, or		
	i. Drainage to the rear already exists or is to be dedicated; however, the percentage may not exceed 60% of the total depth of lots up to 225' deep, or that portion greater than 135' on lots greater than 225' deep unless a greater percentage is required to comply with items ii or iii below		
	ii. Where the size limitation of the roadside ditches will be exceeded		
	iii. Where the size of the curb and gutter drainage pipe exceeds 36" in diameter		
	7. Reference standard plan details of all drainage structures		
	8. Existing cross sections at maximum 100' intervals showing:		
	Roadway		
	Ditch		
	Lot grades		
	9. Time of concentration		
	a. Rational method		
	b. SCS LAG method		
	10. South of the South Terrebonne Development Zone		
	Minimum roadway elevation +3.5'		
	Minimum lot elevation +2.0'		
	B. Closed Storm Drainage System1. Minimum sizes		
	15" minimum diameter		
	8" minimum diameter for restrictor pipe		
	2. Minimum Service Life		
	Diameter less than 48" 50 year service life		
	Diameter greater than or equal to 48" 70 years		
	Side drain 30 years		
	3. Sized to operate full with a minimum self cleansing velocity4. Slopes		
	Maximum slope 10 ft/sec		
	Outlet protection for velocity above 10 ft/sec		
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Y N N/A	Urban Service I 5. Manholes o		_	Area	
	Located at a	all changed	in vertical an	d horizontal d	direction
	Maximum 9 exceed 250		DOTD Hydr	aulics Manua	l), but shall not
	Pipe Diameter	3-7 ft/sec	8-12 ft/sec	13-20 ft/sec	7
	15"	150'	250'	300'	
	18"	300'	350'	400']
	24" – 36"	400'	450'	500'	
	42" and larger	600'	650'	700'	_
	6. n value take	en from Exh	nibit 8		
	7. Minimu of drain pip		distance of 6'	' from bottom	of pavement to top
	8. All drainpip Type 3 join		adway joined	d in conforma	nce with LaDOTD
	9. Catch basin standard pla 10. Minimum s	ans	_	lets in confor	mance with LaDOTD
	Diameter le				
	Diameter 42				
	11. Inlet spacin	_			
	LaDOTD H	YDR6000	used		
	Gutter flow	less than 10	0 cfs		
	Width of flo	ooding less	than 8'		
	Spacing les				
	12. Pipe size an	•	· ·		
	LaDOTD H	YDR6020	used		
	Maximum l	nydraulic cl	earance at gu	tter line of 0.2	2' above gutter grade
	Design sket	ches of nun	nbered structi	ures& drainag	ge areas provided
	13. Other mode	-			
	C. Open Storm Dr 1. Minimum s		em		
	15" minimu	ım diameter	•		
	8" minimur 2. Minimum S		for restrictor	pipe	
	Cross drain	s 50 year se	rvice life		
Page 8				8	3/1/2008

Y N N/A	Urban Service District & Urban Planning Area
	All Storm drain pipe 70 years
	Side drain 30 years
	3. Pipes installed in major drainage arteries shall be sized for a maximum allowable headwater of 0.5' or 1.0' below the edge of roadway whichever is less
	4. Outlet protection for velocity above 10 ft/sec
	5. n value taken from Exhibit 8
	6. Entrance loss coefficients in conformance with LaDOTD Hydraulics Manual
	7. Minimum vertical distance of 6" from bottom of pavement to top of drain pipe
	8. All drainpipes under roadway joined in conformance with LaDOTD Type 3 joints9. Minimum servitude for drain pipe
	Diameter less than 42" = 15'
	Diameter 42" and greater = 20' 10. Roadside ditches
	3:1 side slope
	Maximum depth of 3'-6"
	11. Ditch centerline not less than 12' from edge of roadway
	12. Minimum longitudinal ditch invert slope = 0.001 ft/ft
	13. Minimum road right-of-way with open ditch = 60'
	 LaDOTD HYDR1140 used to determine normal depth of flow in channel
	15. Minimum width of ditch bottom 2'
	16. n for channels taken from Exhibit 8
	17. Water surface profile computed and shown on final drawings18. Culvert sizes
	Future driveway sizes shown on plat
	Culverts sized as though entire subdivision was subsurface
	19. Other model with prior approval VI. SYSTEM STORAGE A. Detention Facilities:
	1. Greater than 1 acre
	2. Compensatory storage
Page 9	8/1/2008

Y N N/A	Urban Service District & Urban Planning Area 3. Type
	Open basin or pond
	Roof top storage
	Parking lot ponding
	Underground storage
	Uninhabited areas
	Designated as raw land
	4. Drainage Plan
	Plan
	Profile
	Cross Section
	Pipes & Structures
	Size
	Length
	Invert
	Design volume
	Grades
	Bottom Elevation
	Maximum stage elevation
	 Onsite system designed to handle both on-site runoff and conveyance through the site of off-site runoff
	6. Designed to anticipate, enable and minimize future maintenance needs
	7. Multiple uses encouraged
	8. Visual impacts considered
	9. Adequate access for maintenance personnel
	10. Maximum depth of parking lot detention 8"
	11. Slopes for parking lot detention no less than 1% no more than 3%
	12. Flood surface elevation of parking lot detention at least 1' below the lowest habitable floor elevation of building within 50' of the detention area13. Detention pond slopes
	Interior slope does not exceed 2:1
	Exterior slope does not exceed 3:1
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Y N N/A	Urban Service District & Urban Planning Area		
	14. Private benefit = private ownership		
	Methods, procedures and guarantees, including appropriate documentation, that the facilities will be perpetually maintained so as to function as designed and not result in nuisances or health hazards 15. Pond dimensions		
	If depth is less than 3' deep minimum width $= 6$ '		
	If depth is 3' or deeper minimum width = 15'		
	16. Landscaped for aesthetic purposes and to stabilize banks		
	Seeding and sodding		
	No floatable or erodible material (bark mulch) in interior		
	17. Failure of owner to maintain will be cause for Parish to perform work and bill owner		
	18. Parish maintained pond control structures that do not abut a public right-of-way should be accessible by a 15' minimum right-of-way to allow vehicle access		
	19. Control structures designed and constructed to operate automatically as much as possible		
	20. Designed with 1' of freeboard above the elevation of the design flood (except parking lot ponds)21. Pond design		
	Dry - Sloped no flatter than 0.3% toward drainage outlet		
	Wet – "low flow" channel installed with lining at minimum 0.3% slope		
	Wet pond bottom elevation 1.5 ft below normal low water elevation if constructed flat		
	23. "Flow through" pond has well defined low flow channel		
	24. Ponds greater than 4' in depth have fence and locked gate 25. Design Volume		
	Shown on plans		
	Storage measured from the on-site 25 year stage elevation to a maximum depth of the pump drawdown elevation		
	Wet and dry basins designed so that the portion of their bottom area, which is intended to be dry, shall have standing water no longer than 48 hours for all runoff events equal to or less than the 25-year event		

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Y N N/A	Urban Service District & Urban Planning Area
	26. Hydraulic losses and structural integrity considered in closed systems on private property
	27. Written restriction on final plat stating that no structure, fill or obstructions shall be located within any drainage easement or delineated flood plain
	 28. All publicly maintained facilities located in a recorded drainage servitude including any necessary for access VII. EROSION AND SEDIMENT CONTROL A. Design:
	1. Required on all proposed developed sites of one acre or greater
	2. Incorporated into excavation, construction and post-construction
	3. Provisions for interception of all potential silt-laden runoff made before initial clearing and grading
	4. Erosion control and storm water pollution plan provided
	5. Erosion protection provided for all disturbed areas
	B. Maintenance agreement provided before building permit is obtainedC. Best Management Practices:
	1. Existing vegetation preserved where feasible and disturbed portions stabilized as soon as practicable
	 Structural practices to divert flows from exposed soild, store flows, or otherwise limit runoff and the discharge of pollutants from the site to the extent feasible
	3. Prevention of the discharge of building materials into the Parish storm sewers or waters of the United States
	4. Provide general good housekeeping measures to prevent and contain spills
	5. Implementation of proper waste disposal and waste management techniques
	 Timely maintenance of vegetation, erosion and sediment control measures
	VIII. SERVITUDE REQUIREMENTS AND DEDICATION
	A. Ditches not adjacent to a roadway
	1. Ditch less than or equal to 4' deep or 18' wide 15' on both sides
	2. Ditch greater than 4' deep and/or 18' wide 15' on one side and 20' on the other
	3. Parallel ditches minimum 20' crown between

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Y NN/A		Urban Service District & Urban Planning Area	
		4. Ditch adjacent to roadway not greater than 3.5' and 23'	wide
		5. Minimum servitude for drain pipe	
		Diameter less than 42" = 15'	
		Diameter 42" and greater = 20'	
		B. Letter Of No Objeaction required for work in parish right-or property	f-way or parisl
		C. Developer's responsibility to record any necessary servitude needed to connect a development site with an approved point	
	f.	City – Subsurface drainage requires, i.e. culverts and catch basi	ns 24.7.1.1.1
	g.	Minimum size and grade of culverts denoted and profiles of all submitted 24.5.4.8.2,3	ditches
		- Proposed culverts fit within ditch	
	h.	Building of bulkheads on Bayou Black (permit) 6-6	
	10. Ut	tilities	
	a.	Water	
		1. Fire hydrants – spacing ≤ 500 ' 24.7.6.1.8	
	b.	2. Approval letter from Waterworks 24.5.4.6.7, 24.7.5.6 Gas	
		1. Gas mains 2" I.D. 3' deep 24.7.5.4.1	
		2. Servitude for gas main provided 24.7.5.4.2	
		3. Approval letter from Gas Utility 24.5.4.6.7	
	c.	Electricity	
		1. Light Standards 22-51	
		a. Standards, "cobra head" or decorative type of appropria and lamping 24.7.5.2	te height style
		b. Easements 24.7.5.2	
		c. Location, spacing (spacing 300' > x > 150' and one at e intersection within street right of way) 24.7.5.2	ach
		3. Approval Letter from Electric Utility 24.5.4.6.7	
	d.	Sewerage	
		1. Sewerage collection system provided 24.7.5.5	
		2. Approval letter from Department of Health and Hospitals 24	4.5.4.6.7
		3. Approval letter from TPCG Pollution Control 24.5.4.6.7	
		4. Easements 24.7.5.1	
	e.	General servitudes 24.7.5.1	
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Y N N/A	Urban Service District & Urban Planning Area			
	11. Benchmarks: brass or aluminum disk located in the street near the centerline of each road intersection shown on engineering plan 24.7.6.4			
	a. Location			
	b. Description			
	c. Elevation msl Datum used			
	12. Miscellaneous compliance			
	 a. Drawings showing final alignment of streets and sewerage, method of sewerage disposal and/or tie-in with existing collective systems, lagoons, lift stations, force mains, etc. 24.5.4.8 b. Sidewalks 24.7.6.5 			
	Within street right-of-way			
	2. Parallel to the street3. Placement			
	a. Abut the curb -5 ' in width			
	b. Separated from curb – 4' in width4. Thickness			
	a. 4" thick typical			
	b. 6" thick at points of vehicle crossings with welded wire fabric			
	5. PCC concrete with compressive strength of 4000 psi			

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Recommended Runoff Coefficients For Subdivisions

Description of Area	Runoff Coefficients
Business Downtown Neighborhood	0.80 0.50
Residential Single-family Multi-units, detached Multi-units, attached	0.50 0.50 0.65
Residential (suburban)	0.50
Apartment	0.60
Industrial Light Heavy	0.65 0.75
Parks, cemeteries	0.40
Playgrounds	0.25
Railroad yard	0.30
Unimproved	0.20

Period of Recurrence in Years to Determine the Design Discharge

TRIBUTARY AREA IN ACRES	UNIMPROVED	OPEN SPACE FOR PUBLIC AND INDUSTRIAL USE	RESIDENTIAL	INDUSTRIAL	COMMERCIAL AREAS
UP TO 150	10	10	10	25	25
150 TO 3,000	25	25	25	50	50
OVER 3,000	100	100	100	100	100

Use TPR 40 and HDR 35 published by the U.S.N.O.A.A.

MAJOR DRAINAGE ARTERIES

TERREBONNE PARISH, LOUISIANA

Bayou Black

Bayou Blue

Bayou Cane

Bayou Chauvin

Bayou Dularge

Bayou Grand Caillou

Bayou LaCache

Bayou Petit Caillou

Bayou Point Au Chien

CCC Ditch

Chacahoula Bayou

Company Canal

Donner Canal

Falgout Canal

Gulf Intracoastal Waterway

Hanson Canal

Little Bayou Black

Marmande Canal

Minors Canal

Ouiski Bayou

Ringo-Cocke Canal

Six Foot Ditch

St. Louis Bayou

St. Louis Canal

Terrebonne-Lafourche Drainage Canal

Also include any forced drainage pumping station feeder channel.

EXHIBIT NO. 14 8/1/2008

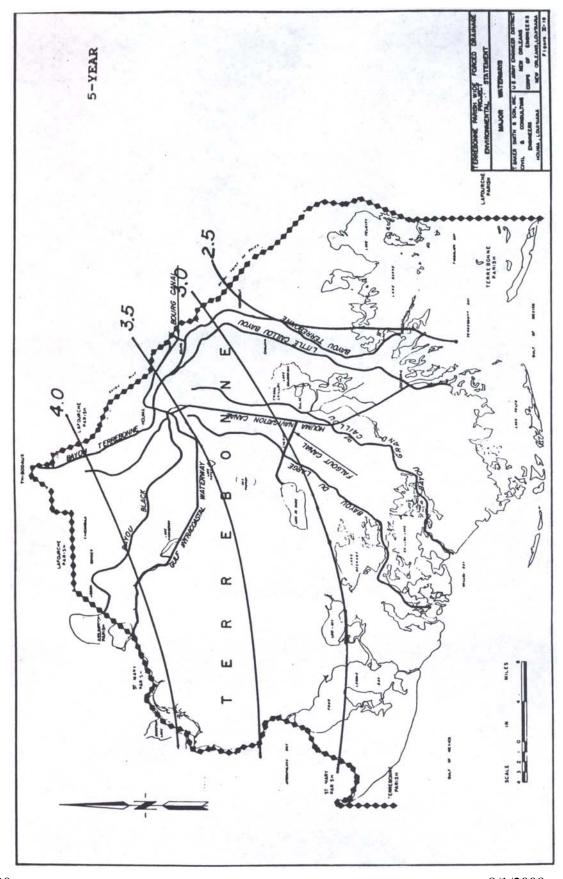
FLOOD ELEVATIONS RESULTING FROM EXTRA-TROPICAL DESIGN STORM

	LEVEE MIN	100YR	25 YR MAX	10 YR		2 YR MAX
PROJECT NAME	EL	MAX EL	EL	MAX EL	EL	EL
1-1A (Bonanza)	4.30	4.21	3.31	2.47	1.76	0.15
1-2 (Ashland)	6.00	3.84	3.59	3.29	3.14	2.74
1-3 (Industrial Blvd)	4.92	3.47	2.50	1.33	0.33	-4.00
1-5 (Bayou Chauvin)	5.00	4.48	3.62	3.02	2.10	0.00
1-7 (Baroid)	6.00	6.45	6.20	5.97	5.64	5.13
1-8 (M&L)	5.10	6.80	6.00	5.22	4.69	3.26
2-1A (Schriever)	1.24	2.92	2.05	1.34	1.22	1.15
2-1B (Summerfield)	10.00	2.59	2.19	1.66	1.33	0.65
3-1B (Boudreaux)	3.00	1.19	1.00	1.00	0.85	0.67
3-1C (Boudreaux)	3.70	2.12	1.67	1.31	1.15	1.02
4-1 (Pnt Aux Chien)	4.00	1.58	1.24	1.02	0.95	0.00
4-2A (Smithridge)	5.00	4.47	4.09	3.80	3.50	3.02
4-7 (Bourg)	4.20	4.73	3.95	3.34	2.85	1.60
4-MONTE (Montegut)	5.00	2.23	1.71	1.26	1.08	1.01
5-1A (Chauvin)	2.50	1.68	1.33	1.08	1.00	0.92
5-1B (Chauvin)	1.10	1.19	1.00	0.91	0.75	0.50
6-1 (Gibson)	4.30	1.16	1.01	0.88	0.74	0.51
6-2A (Donner)	4.20	4.20	4.20	4.20	3.53	0.00
8-2 (Bayou Dularge)	2.80	2.52	1.65	1.16	1.01	1.00
D-38 (Concord Rd)	3.67	3.33	2.40	1.00	0.42	-0.80
D-39 (Barataria)	10.00	6.83	6.26	5.73	5.36	1.87
D-40 (Cenac St)	3.00	1.74	1.47	1.27	1.18	1.04
D-41 (Williams St)	5.00	4.98	4.21	3.49	-1.20	-3.00
HOUMA LAKE S.A.	-	2.03	1.60	1.20	1.04	0.73
OUISKI BAYOU S.A.	-	0.94	0.74	0.60	0.51	0.38
TIGER BAYOU S.A.	-	1.40	0.81	0.65	0.60	0.41
COTEAU-ST LOUIS S.A.	-	2.34	1.82	1.42	1.20	0.82
BULL RUN S.A.	-	1.44	1.12	0.90	0.70	0.50

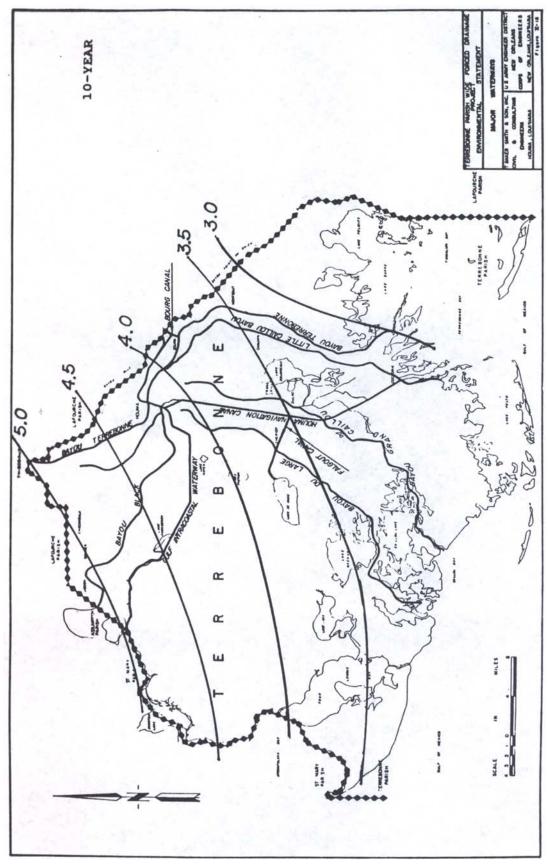
TABLE 4-3. Extra-tropical storm peak pump station reservoir flood elevations.

Check with Engineering Division to see if these elevations have changed.

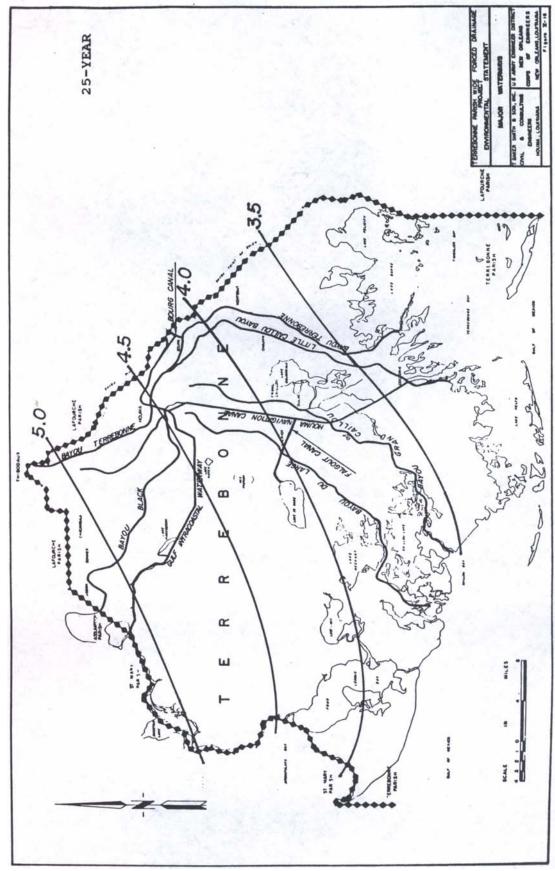
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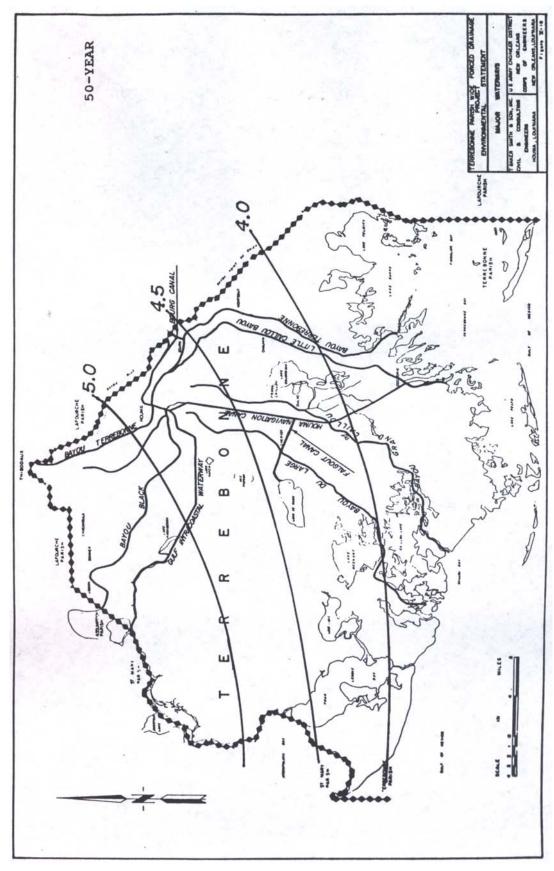
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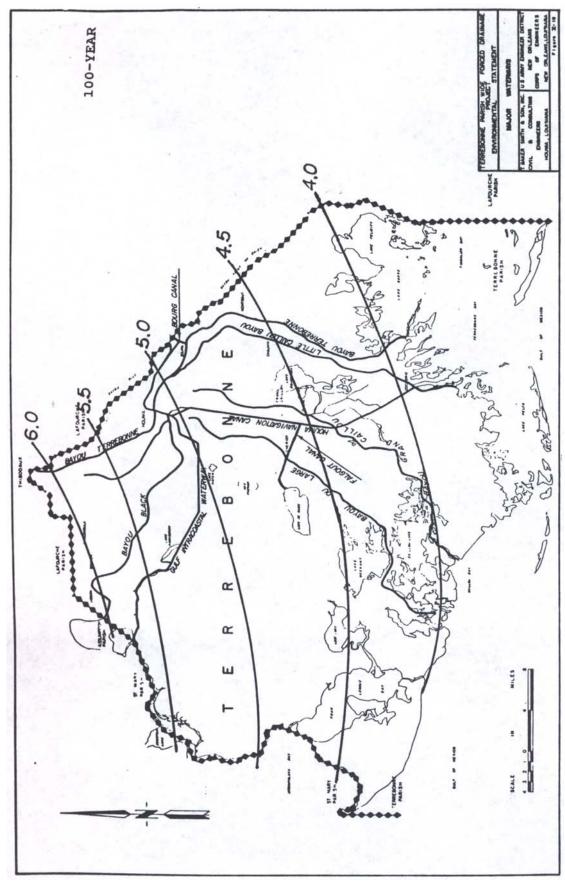
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