

PUBLIC WORKS DEPARTMENT

**Council Presentation
OCTOBER 23, 2023**

MILES B. BINGHAM, PE

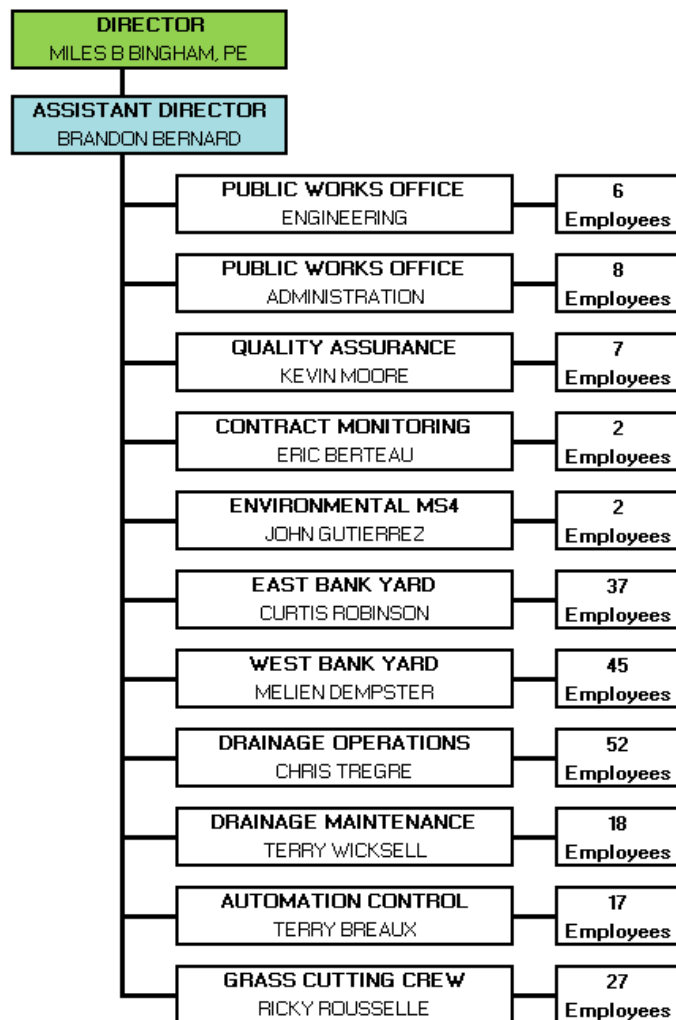


PUBLIC WORKS

AGENDA:

- **Public Works Organization**
- **Public Works Engineering**
- **Master Drainage Plan**
- **Pavement Maintenance Program (2022/2023)**
- **Roadway Capital Projects**
- **Pump Stations**
- **Pump Station Capital Projects**
- **Drainage Conveyance Capital Projects**
- **Public Works Field Crews**

PUBLIC WORKS



• **TOTAL POSITIONS** **223**

• **CURRENT STAFF** **181**

• **OPEN POSITIONS** **42**

- Drainage Ops. 10 Openings
- Grass Cutting 9 Openings
- East Bank Yard 7 Openings
- West Bank Yard 7 Openings
- Automation 3 Openings
- Drainage Maint. 3 Openings
- PW Office 3 Openings

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PUBLIC WORKS ENGINEERING

ENGINEERING PROJECT REPORT

Public Works Capital Projects

PROJECT STATUS	COUNT BY STATUS	
	DRAINAGE	ROADWAY
PROPOSAL	1	0
PLANNING	2	0
SURVEY	1	1
CONCEPTUAL DESIGN	1	1
PRELIMINARY DESIGN	9	7
FINAL DESIGN	9	3
BIDDING	3	0
CONSTRUCTION	4	4
ON HOLD (AWAITING FUNDING)	16	7
TOTAL PROJECTS	46	23

Other Engineering Tasks:

- Subdivision Reviews
- Commercial Development Reviews
- Driveway Culvert Permits
- Subsurface Culvert Permits
- Utility Installation Permits
- Assist during Emergencies
- Help resolve field issues
- Respond to residential complaints
- And so much more!

PUBLIC WORKS CAPITAL PROJECTS FUNDING PROGRAM

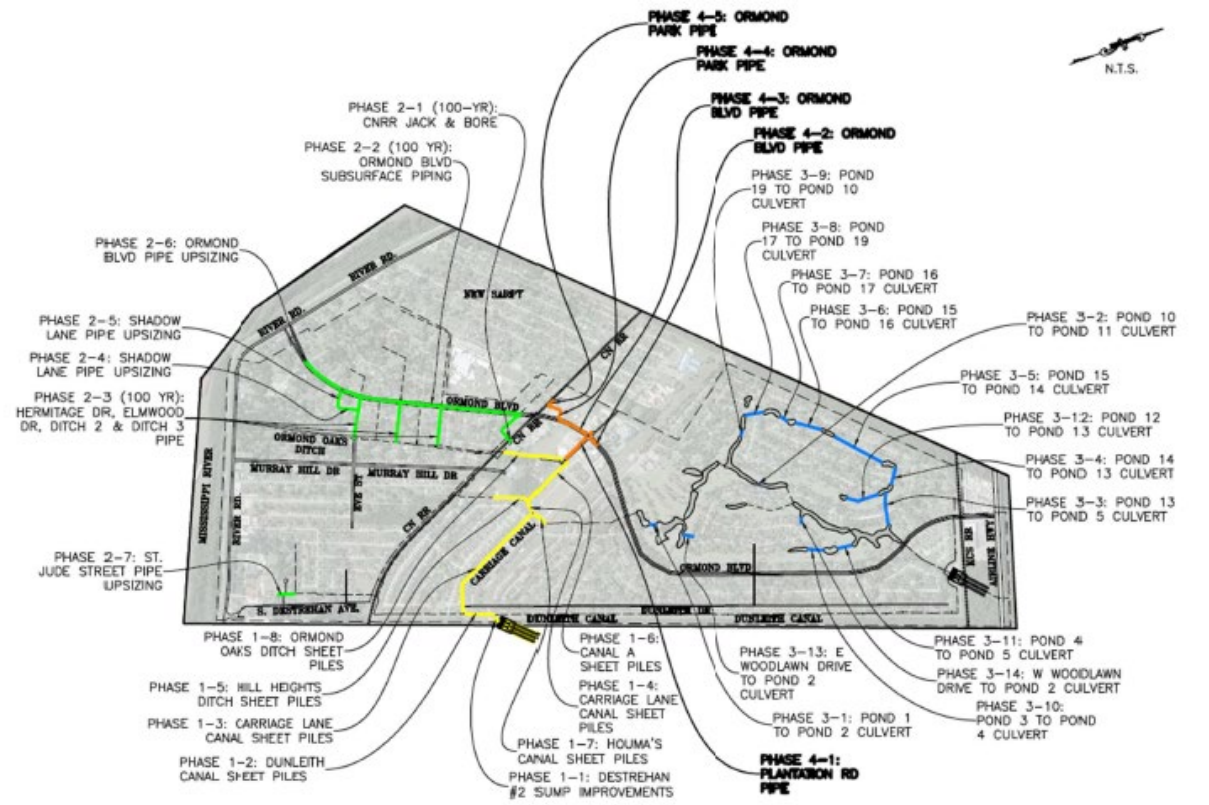
PROJECTS	TOTAL CONSTRUCTION COST	GRANTS FUNDING				NET PARISH COST
		STATE GRANTS	FEDERAL GRANTS	FUTURE GRANTS	TOTAL AMOUNT OF GRANTS	
Ama Pump Station Upgrade	\$ 2,752,705.00	\$ 1,000,000.00	\$ -	\$ -	\$ 1,000,000.00	\$ 1,752,705.00
Hill Heights Drainage Improvements - East Ditch Phase 1	\$ 728,098.20	\$ -	\$ -	\$ -	\$ -	\$ 728,098.20
Dunleith Canal - Hydraulic Bottleneck at Destrehan Pump Station #2	\$ 2,264,960.00	\$ 658,800.00	\$ -	\$ -	\$ 658,800.00	\$ 1,606,160.00
Destrehan Pump Station #2 - Bar Screen & Sump Improvements	\$ 9,190,697.00	\$ 330,000.00	\$ -	\$ -	\$ 330,000.00	\$ 8,860,697.00
Barber Road Bank Stabilization	\$ 2,880,543.00	\$ -	\$ -	\$ -	\$ -	\$ 2,880,543.00
Lakewood Drive Rehabilitation	\$ 5,979,591.63	\$ -	\$ 5,043,673.30	\$ -	\$ 5,043,673.30	\$ 935,918.33
Paul Maillard (LA 52) Revitalization Phase 1	\$ 10,954,325.00	\$ -	\$ 8,763,460.00	\$ -	\$ 8,763,460.00	\$ 2,190,865.00
Asphalt Pavement Maintenance 2022/2023	\$ 2,499,902.00	\$ 1,000,000.00	\$ -	\$ -	\$ 1,000,000.00	\$ 1,499,902.00
Des Allemands Bulkhead (Phase 1 -Permanent Repairs)	\$ 5,744,915.00	\$ 493,387.00	\$ 3,179,224.00	\$ -	\$ 3,672,611.00	\$ 2,072,304.00
Engineer's Canal Bank Stabilization (Phase 1)	\$ 1,353,000.00	\$ 729,750.00	\$ -	\$ -	\$ 729,750.00	\$ 623,250.00
Primrose Canal Cleaning & Improvements (Phase 1A)	\$ 2,757,000.00	\$ -	\$ -	\$ -	\$ -	\$ 2,757,000.00
Omond CN Railways Culverts (Sites 1 & 2)	\$ 6,314,616.00	\$ 6,314,616.00	\$ -	\$ -	\$ 6,314,616.00	\$ -
Engineers Canal Pump Station Improvements	\$ 9,000,000.00	\$ -	\$ 8,601,935.00	\$ -	\$ 8,601,935.00	\$ 398,065.00
Willowdale Boulevard Right Turn Lane	\$ 400,000.00	\$ -	\$ -	\$ -	\$ -	\$ 400,000.00
Pavement Management Program - Concrete Roads	\$ 1,800,000.00	\$ -	\$ -	\$ -	\$ -	\$ 1,800,000.00
Murray Hill And Destrehan Drive Drainage Improvements	\$ 3,000,000.00	\$ -	\$ -	\$ 1,500,000.00	\$ 1,500,000.00	\$ 1,500,000.00
King and Hahn Street Drainage Improvements	\$ 2,800,000.00	\$ -	\$ 2,779,000.00	\$ -	\$ 2,779,000.00	\$ 21,000.00
Kinler & Paul Fredrick Roadway & Drainage Improvements	\$ 5,000,000.00	\$ -	\$ -	\$ 3,000,000.00	\$ 3,000,000.00	\$ 2,000,000.00
Des Allemands Boat Launch Road	\$ 3,000,000.00	\$ -	\$ 2,300,000.00	\$ -	\$ 2,300,000.00	\$ 700,000.00
Sunset Auto Bar Screens	\$ 10,000,000.00	\$ -	\$ 6,000,000.00	\$ -	\$ 6,000,000.00	\$ 4,000,000.00
Sunset Pump Station Upgrades	\$ 10,000,000.00	\$ -	\$ -	\$ 10,000,000.00	\$ 10,000,000.00	\$ -
Montz Pump Station # 1 (at CN Tracks) (267 CFS Station)	\$ 11,600,000.00	\$ -	\$ 10,000,000.00	\$ -	\$ 10,000,000.00	\$ 1,600,000.00
Total Construction Cost	\$ 110,020,352.83	\$ 10,526,553.00	\$ 46,667,292.30	\$ 14,500,000.00	\$ 71,693,845.30	\$ 38,326,507.53

65.16% of Cost is Covered By Grants

MASTER DRAINAGE PLAN

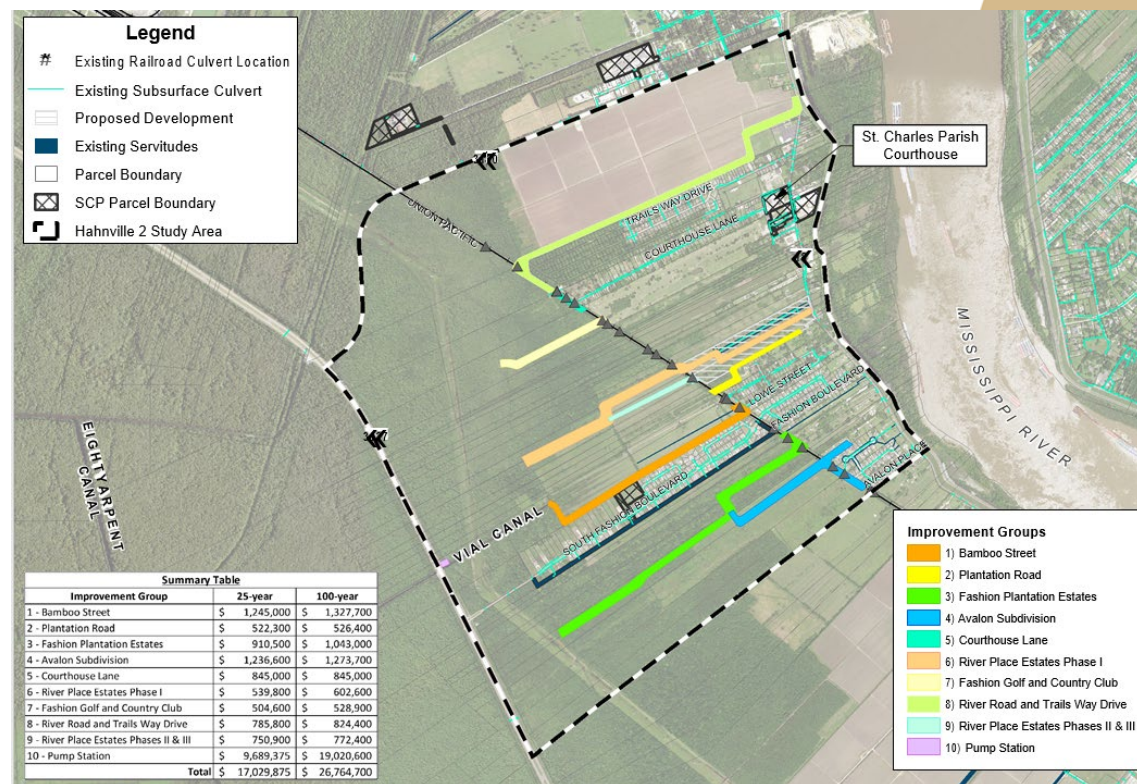
MASTER DRAINAGE PLAN EAST BANK

- The Montz, Norco, New Sarpy and Ormond Watersheds were completed December 14, 2021.
- The St. Rose, Dianne Place, Bar None, Turtle Pond and Almedia Watersheds were completed March 21, 2023.
- The Destrehan Plantation, Plantation Business Center, Destrehan West and Destrehan East Watersheds are currently being analyzed.
- The Parish has moved forward with design of Priority 1 projects in the Montz, Norco, New Sarpy and Ormond Watersheds.
- The Parish is evaluating Priority 1 projects in the Destrehan Plantation, Plantation Business Center, Destrehan West and Destrehan East Watersheds .



MASTER DRAINAGE PLAN WEST BANK

- The Ama-Sellers, Hahnville 1 and Hahnville 2 Watersheds were completed November 24, 2021.
- The Luling, Luling I-310 and Mimosa/Willowdale Watersheds were completed March 7, 2023.
- The Des Allemands/Sunset/Paradis and Killona/Taft Watersheds are currently be analyzed.
- The Parish has moved forward with design of Priority 1 projects in the Ama-Sellers, Hahnville 1 and Hahnville 2 Watersheds.
- The Parish is evaluating Priority 1 projects in the Luling, Luling I-310 and Mimosa /Willowdale Watersheds.



PAVEMENT MAINTENANCE PROGRAM (2022/2023)

PAVEMENT MAINTENANCE PROGRAM

ROAD MANUALS UPDATED



PREPARED FOR
St. Charles Parish Government



PREPARED BY
Digital Engineering & Imaging, Inc.
527 West Esplanade Avenue, Suite 200, Kenner, LA 70065



DECEMBER 2022



PHYSICAL CONDITION	SURFACE TYPE	DISTRICT							TOTAL ROADS	% TOTAL ROADS
		1	2	3	4	5	6	7		
EXCELLENT	CONCRETE	6	6	1	0	2	4	11	30	17.97%
	ASPHALT	13	27	4	22	12	21	16	115	
	LIMESTONE	0	0	0	0	0	0	0	0	
GOOD	CONCRETE	27	30	54	7	36	30	37	221	60.22%
	ASPHALT	48	46	3	71	21	49	26	264	
	BRICK	0	0	0	0	0	0	1	1	
	LIMESTONE	0	0	0	0	0	0	0	0	
FAIR	CONCRETE	6	3	14	0	14	8	4	49	17.97%
	ASPHALT	16	28	3	18	4	16	7	92	
	LIMESTONE	1	0	0	1	0	2	0	4	
POOR	CONCRETE	2	5	1	1	0	0	0	9	3.34%
	ASPHALT	0	2	0	4	1	6	3	16	
	LIMESTONE	1	1	0	0	0	0	0	2	
VERY POOR	CONCRETE	0	1	0	0	0	0	0	1	0.49%
	ASPHALT	0	2	0	0	0	0	0	2	
	LIMESTONE	0	1	0	0	0	0	0	1	
TOTAL ROADS		120	152	80	124	90	136	105	807	100.00%

SURFACE TYPE	DISTRICT							TOTAL ROADS	% TOTAL ROADS
	1	2	3	4	5	6	7		
CONCRETE	41	45	70	8	52	42	52	310	38.41%
ASPHALT	77	105	10	115	38	92	52	489	60.59%
BRICK	0	0	0	0	0	0	1	1	0.12%
LIMESTONE	2	2	0	1	0	2	0	7	0.87%
TOTAL ROADS	120	152	80	124	90	136	105	807	
% ROADS/DISTRICT	14.87%	18.84%	9.91%	15.37%	11.15%	16.85%	13.01%		100.00%

PAVEMENT MAINTENANCE PROGRAM

STATE TRANSPORTATION FUND

- STATE TRANSPORTATION FUND PROVIDES \$500k PER YEAR FOR MILLING AND PAVING ROADS.
- THE PARISH NEEDS TO SELECT THE ROADS USING AN APPROVED RATING SYSTEM.
- THE SYSTEM BEING USED BY THE PARISH RATES THE ROADS ON A SCALE OF 1 TO 30.
- THE PARISH TRIES TO SELECT ROADS THAT HAVE A RATING OF 10 OR ABOVE.

STATE RATING	DISTRICT							TOTAL ROADS	% TOTAL ROADS
	1	2	3	4	5	6	7		
15	0	0	0	0	0	2	0	2	0.25%
14	0	2	0	0	0	2	2	6	0.74%
13	3	3	1	2	0	3	0	12	1.49%
12	1	6	1	1	7	3	4	23	2.85%
11	5	10	5	4	6	4	4	38	4.71%
10	5	10	5	3	5	15	7	50	6.20%
9	18	17	6	11	5	9	8	74	9.17%
8	20	25	10	24	16	15	16	126	15.61%
7	21	22	11	31	14	20	17	136	16.85%
6	20	31	13	30	16	25	24	159	19.70%
5	20	18	9	12	16	24	19	118	14.62%
4	5	6	10	6	4	6	4	41	5.08%
3	2	2	8	0	1	6	0	19	2.35%
2	0	0	1	0	0	2	0	3	0.37%
1	0	0	0	0	0	0	0	0	0.00%
TOTAL ROADS	120	152	80	124	90	136	105	807	100.00%

PAVEMENT MAINTENANCE PROGRAM STATE APPROVED RATING SYSTEM

A. Characteristics 3 Pts.

B. Number of Dwellings 3 Pts.

C. Services Provided

1. Emergency Evacuation 2 Pts.

2. Emergency Vehicle Use 4 Pts.

D. Estimated Daily Traffic 3 Pts.

E. Existing Conditions

1. Roadway Surface 7 Pts.

2. Roadway Width 3 Pts.

3. Roadway Shoulder 2 Pts.

4. Roadway Ditches 2 Pts.

F. Special Conditions 1 Pt.

TOTAL POINTS 30

PAVEMENT MAINTENANCE PROGRAM

STATE APPROVED RATING SYSTEM

STREET NAME:	MOTT STREET	DATE OF SURVEY:	October-22
DISTRICT:	4	STREET LENGTH (ft.):	697
BOUNDARY:	US 90 - DEAD END	STREET WIDTH (ft.):	14
COMMUNITY:	DES ALLEMANDS	SURFACE TYPE:	ASPHALT
MAP CODE:	D-18, E-18	PHYSICAL CONDITION:	POOR
STREET # / REACH:	52	NO. OF DWELLINGS:	10
CONNECTS 2 HARD SURFACE ROADS:	<input type="checkbox"/>	HOSPITAL ACCESS:	<input type="checkbox"/>
CONNECTS 2 DISTRICTS OF PARISH:	<input type="checkbox"/>	FIRE STATION:	<input type="checkbox"/>
CONNECTS 2 COMMUNITIES:	<input type="checkbox"/>	SPECIAL CONDITION:	<input type="checkbox"/>
EMERGENCY EVACUATION :	ROADWAY SHOULDERS :	SIDEWALKS (EVEN PARTIAL) :	
ONLY ROUTE AVAIL. <input checked="" type="checkbox"/>	BOTH SIDES <input checked="" type="checkbox"/>	BOTH SIDES <input type="checkbox"/>	
ONE ALT. ROUTE AVAIL. <input type="checkbox"/>	ONE SIDE <input type="checkbox"/>	ONE SIDE <input type="checkbox"/>	
ALT. ROUTES AVAIL. <input type="checkbox"/>	NO SHOULDERS <input type="checkbox"/>	NONE <input checked="" type="checkbox"/>	
ESTIMATED DAILY TRAFFIC :	ROADWAY DITCHES :	ROADWAY STRIPING :	
0-25 <input type="checkbox"/> 26-100 <input checked="" type="checkbox"/>	NO DITCHES <input type="checkbox"/>	SCHOOL/CROSSWALK <input type="checkbox"/>	
101-200 <input type="checkbox"/> 201+ <input type="checkbox"/>	ONE SIDE <input type="checkbox"/>	CENTER/EDGE <input type="checkbox"/>	
	BOTH SIDES <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>	
PRIORITY:	13		

DEGREE OF DISTRESS:				DESCRIPTION AND ESTIMATED COST OF REPAIRS:			
Percentage of Area 1-15% 16-30% 31% +				TYPE OF REPAIR	QUANTITY	UNIT PRICE	ESTIMATED COST
Slight Cracking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6-INCH PATCHING (TONS)	53.67	\$125.00	\$6,709
Moderate Cracking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2-INCH MILLING (SY)	1084.22	\$2.50	\$2,711
Severe Cracking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2-INCH OVERLAY (SY)	1084.22	\$14.00	\$15,179
Slight Patching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SHOULDER MATERIAL (LF)	1394.00	\$2.00	\$2,788
Moderate Patching	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MISC. (40% OF SUBTOTAL)			\$10,955
Severe Patching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
				TOTAL ESTIMATED COST =			
				\$38,341			

COMMENTS: ISOLATED PATCHING REQUIRED

STREET NAME:	ADAMS STREET (1)	DATE OF SURVEY:	October-22
DISTRICT:	1	STREET LENGTH (ft.):	4442
BOUNDARY:	JULIA ST. (2) - KILLONA DR. (1)	STREET WIDTH (ft.):	16
COMMUNITY:	KILLONA	SURFACE TYPE:	ASPHALT
MAP CODE:	C-8	PHYSICAL CONDITION:	FAIR
STREET # / REACH:	55	NO. OF DWELLINGS:	41
CONNECTS 2 HARD SURFACE ROADS:	<input checked="" type="checkbox"/>	HOSPITAL ACCESS:	<input type="checkbox"/>
CONNECTS 2 DISTRICTS OF PARISH:	<input type="checkbox"/>	FIRE STATION:	<input checked="" type="checkbox"/>
CONNECTS 2 COMMUNITIES:	<input type="checkbox"/>	SPECIAL CONDITION:	<input type="checkbox"/>
EMERGENCY EVACUATION :	ROADWAY SHOULDERS :	SIDEWALKS (EVEN PARTIAL) :	
ONLY ROUTE AVAIL. <input type="checkbox"/>	BOTH SIDES <input checked="" type="checkbox"/>	BOTH SIDES <input type="checkbox"/>	
ONE ALT. ROUTE AVAIL. <input type="checkbox"/>	ONE SIDE <input type="checkbox"/>	ONE SIDE <input type="checkbox"/>	
ALT. ROUTES AVAIL. <input checked="" type="checkbox"/>	NO SHOULDERS <input type="checkbox"/>	NONE <input checked="" type="checkbox"/>	
ESTIMATED DAILY TRAFFIC :	ROADWAY DITCHES :	ROADWAY STRIPING :	
0-25 <input type="checkbox"/> 26-100 <input type="checkbox"/>	NO DITCHES <input type="checkbox"/>	SCHOOL/CROSSWALK <input type="checkbox"/>	
101-200 <input checked="" type="checkbox"/> 201+ <input type="checkbox"/>	ONE SIDE <input type="checkbox"/>	CENTER/EDGE <input type="checkbox"/>	
	BOTH SIDES <input checked="" type="checkbox"/>	OTHER <input checked="" type="checkbox"/>	
PRIORITY:	13		

DEGREE OF DISTRESS:				DESCRIPTION AND ESTIMATED COST OF REPAIRS:			
Percentage of Area 1-15% 16-30% 31% +				TYPE OF REPAIR	QUANTITY	UNIT PRICE	ESTIMATED COST
Slight Cracking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6-INCH PATCHING (TONS)	390.90	\$125.00	\$48,862
Moderate Cracking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2-INCH MILLING (SY)	7896.89	\$2.50	\$19,742
Severe Cracking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2-INCH OVERLAY (SY)	7896.89	\$14.00	\$110,556
Slight Patching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SHOULDER MATERIAL (LF)	8884.00	\$2.00	\$17,768
Moderate Patching	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MISC. (40% OF SUBTOTAL)			\$78,771
Severe Patching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
				TOTAL ESTIMATED COST =			
				\$275,700			

COMMENTS: ISOLATED PATCHING REQUIRED; OTHER STRIPING: STOP BAR

STREET NAME:	COURTHOUSE LANE	DATE OF SURVEY:	October-22
DISTRICT:	1	STREET LENGTH (ft.):	5364
BOUNDARY:	RIVER RD. (W. BANK) - DEAD END	STREET WIDTH (ft.):	18
COMMUNITY:	HAHNVILLE	SURFACE TYPE:	ASPHALT
MAP CODE:	F-10	PHYSICAL CONDITION:	GOOD
STREET # / REACH:	18	NO. OF DWELLINGS:	59
CONNECTS 2 HARD SURFACE ROADS:	<input checked="" type="checkbox"/>	HOSPITAL ACCESS:	<input type="checkbox"/>
CONNECTS 2 DISTRICTS OF PARISH:	<input type="checkbox"/>	FIRE STATION:	<input type="checkbox"/>
CONNECTS 2 COMMUNITIES:	<input type="checkbox"/>	SPECIAL CONDITION:	<input checked="" type="checkbox"/>
EMERGENCY EVACUATION :	ROADWAY SHOULDERS :	SIDEWALKS (EVEN PARTIAL) :	
ONLY ROUTE AVAIL. <input checked="" type="checkbox"/>	BOTH SIDES <input checked="" type="checkbox"/>	BOTH SIDES <input type="checkbox"/>	
ONE ALT. ROUTE AVAIL. <input type="checkbox"/>	ONE SIDE <input type="checkbox"/>	ONE SIDE <input type="checkbox"/>	
ALT. ROUTES AVAIL. <input type="checkbox"/>	NO SHOULDERS <input type="checkbox"/>	NONE <input checked="" type="checkbox"/>	
ESTIMATED DAILY TRAFFIC :	ROADWAY DITCHES :	ROADWAY STRIPING :	
0-25 <input type="checkbox"/> 26-100 <input type="checkbox"/>	NO DITCHES <input type="checkbox"/>	SCHOOL/CROSSWALK <input type="checkbox"/>	
101-200 <input type="checkbox"/> 201+ <input checked="" type="checkbox"/>	ONE SIDE <input type="checkbox"/>	CENTER/EDGE <input type="checkbox"/>	
	BOTH SIDES <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>	
PRIORITY:	13		

DEGREE OF DISTRESS:				DESCRIPTION AND ESTIMATED COST OF REPAIRS:			
Percentage of Area 1-15% 16-30% 31% +				TYPE OF REPAIR	QUANTITY	UNIT PRICE	ESTIMATED COST
Slight Cracking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6-INCH PATCHING (TONS)	531.04	\$125.00	\$66,380
Moderate Cracking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2-INCH MILLING (SY)	10728.00	\$2.50	\$26,820
Severe Cracking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2-INCH OVERLAY (SY)	10728.00	\$14.00	\$150,192
Slight Patching	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SHOULDER MATERIAL (LF)	10728.00	\$2.00	\$21,456
Moderate Patching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MISC. (40% OF SUBTOTAL)			\$105,939
Severe Patching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
				TOTAL ESTIMATED COST =			
				\$370,787			

COMMENTS: SPECIAL CONDITION: COURTHOUSE AND SCHOOL LOCATED ON STREET; ISOLATED PATCHING REQUIRED

PAVEMENT MAINTENANCE PROGRAM

ASPHALT ROADS - MILL & OVERLAY

Street Name	District	Boundary
Milling Avenue	2	Talbot Drive to Dead End
Milling Avenue	2	Angus Drive to Hall Street
Palmer Lane	2	River Road to Dead End
Lorraine Street	2	River Road to Noel Street
Willowdale Boulevard	2	E. Heather Drive to Concrete (Willowridge)
West Court Drive	2	E. Levert Drive to Dead End
East Court Drive	2	E. Levert Drive to Dead End
Weinning Drive	2	Cathy Drive to W. Levert Drive
Plantation Road	3	Ormond Boulevard to Dead End
Fonda Street	4	Bayou Gauche Road (LA 306) to Dead End
Hale Street	4	US 90 to Fonda Street
South Street	4	US 90 to Barber Road
Louisiana Street	4	US 90 to Barber Road
Third Street	4	US 90 to LA 63
Union Street	6	River Road to Dead End
Ninth Street	6	Vans Lane to E. Terrace Street
Primrose Drive	7	Maryland Drive to St. John Street

17 Streets Completed in Round 1
 29 Streets Completed in Round 2
 \$3.5 Million of Work Completed

Street Name	District	Boundary
General Taylor Drive	1	Union Drive to Fashion Boulevard S.
Gourgues Street	1	River Road (WB) to Plum Street
Pecan Street	1	Dead End to Oak Street to Dead End
St. Francis Street	1	S. Destrehan Avenue to Parking Lot
Smith Street	1	River Road (WB) to Dead End
Rose Street	1	Dead End to Lowe Street to Dead End
Third Street	2	Paul Maillard Road (LA 52) to Sugarhouse Road
Fifth Street	2	Paul Maillard Road (LA 52) to Ellington Avenue
Ellington Avenue	2	Fifth Street to Railroad
St. Paul Street	2	S. Destrehan Avenue to S. Destrehan Avenue
Ruth Street	3	Murray Hill Drive to Concrete
Bayou Road	4	LA 631 (Dead End) to Up The Bayou Road
Breezeway Street	4	Mitchell Lane to Dead End
Common Street	4	Eula Drive to Dead End
Evans Street	4	Williams Street to Dead End
First Street	4	LA 631 to Dead End
Mott Street	4	US 90 to Dead End
Maple Street	4	Sharon Avenue to Dead End
Pony Lane	5	Opal Lane to Palomino Drive
Opal Alne	5	River Road to Pony Lane
Clayton Street	6	First Street (Dead End) to Third Street
Clayton Street	6	Third Street to Sixth Street (Dead End)
Short Street	6	Diamond Road to East Street
St. Charles Street	6	Apple Street to Apple Street
West B Street	6	Sixth Street to Fourth Street
Blouin Street	7	Kellogg Drive to Monsanto Avenue
Faith Place	7	River Ridge Drive to Cul-De-Sac
Fern Drive	7	Oak Lane to Kellogg Drive
River Oaks Drive	7	US 90 to Dead End

PAVEMENT MAINTENANCE PROGRAM

ASPHALT ROADS



PAVEMENT MAINTENANCE PROGRAM CONCRETE ROADS

- **\$1.8 Million has been included in 2023 Budget for maintenance of Concrete Roads.**
- **Ten (10) Concrete Roads in the Parish are rated Poor or Very Poor.**
- **The Engineer's Contract has been amended to include development of plans and specifications to repair concrete roads.**
- **The Goal is to repair all of the Concrete Roads rated Poor and Very Poor within the next two (2) years.**

ROADWAY CAPITAL PROJECTS

PAUL MAILLARD (LA 52) REVITALIZATION PHASE 1 – BLUEBERRY HILL TO ANGUS



Reconstruct Paul Maillard (LA 52) including roadway, sidewalk, drainage, sewer and water replacement/upgrades.

CONTRACTOR: Hard Rock Construction
ENGINEER: Evans-Graves
CONSTRUCTION COST: \$10,954,325.00
CONSTRUCTION START: July 31, 2023
CONSTRUCTION END: August/Sept. 2024



LAKEWOOD DRIVE REHABILITATION (US 90 TO HEATHER DRIVE)



CONTRACTOR: Byron E. Talbot Contractor

ENGINEER: Shread-Kuyrkendall

CONSTRUCTION COST: \$5,979,592.00

CONSTRUCTION START: May 25, 2023

CONSTRUCTION END: February/March 2024

Reconstruction of Lakewood Drive including new concrete road surface, concrete curbing, drainage repairs and sewer point repairs.

BARBER ROAD BANK STABILIZATION PHASE 2 – WISNER TO LOUISIANA



CONTRACTOR: Command Construction

ENGINEER: Richard C Lambert

CONSTRUCTION COST: \$2,880,543.00

CONSTRUCTION START: August 1, 2023

CONSTRUCTION END: 2024

Roadway Repair and Bank Stabilization.
The Project will install sheet pile to stabilize the bank and create a safer roadway. The asphalt roadway surface will be milled and overlaid.

UPCOMING ROADWAY PROJECTS

Willowdale Boulevard Right Turn Lane At US 90

- **Construction anticipated March/April 2024**

Kinler & Paul Fredrick Roadway & Drainage Improvements

- **Construction anticipated September/October 2024**

Des Allemands Boat Launch Road

- **Construction anticipated May/June 2024**

PUMP STATIONS

PUMP STATIONS EAST BANK

➤ Total Stations 24

➤ Total Pumps 63

➤ Stations on SCADA 14

➤ East Bank 2,605,440 GPM

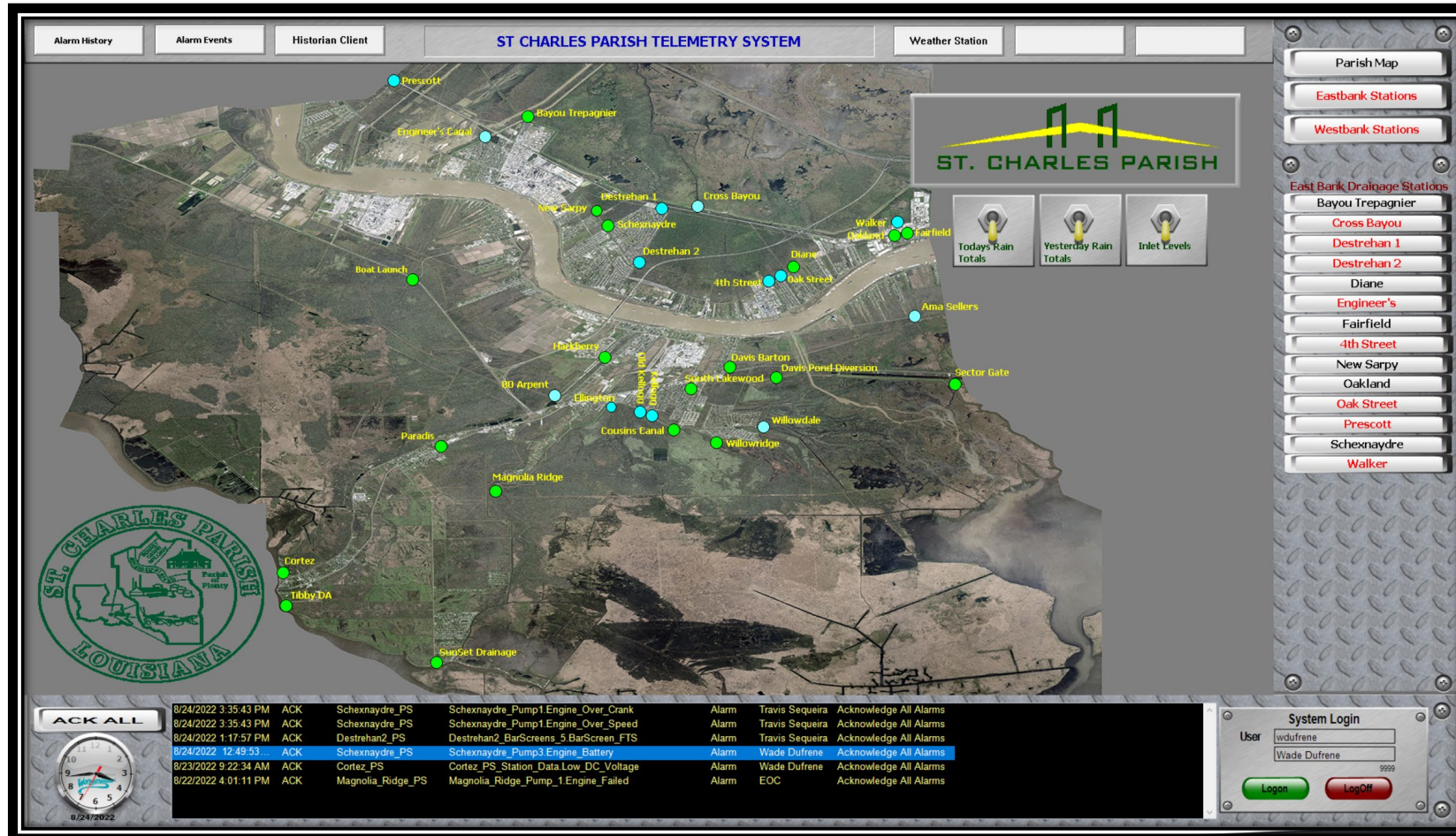
EAST BANK								
	STATION NAME	PUMP SIZE						TOTAL GPM
		Pump #1	Pump #2	Pump #3	Pump #4	Pump #5	Pump #6	
1	BAYOU TREPAGNIER	60"	60"	60"	30"			359,100
2	CROSS BAYOU	60"	60"	60"	60"	60"	30"	587,000
3	DESTREHAN 1	48"	48"	48"	48"	54"	54"	340,000
4	DESTREHAN 2	48"	48"	48"	72"	72"		418,000
5	DIANNE	24"	24"	30"				63,000
6	ENGINEER'S CANAL	26"	26"	26"				84,000
7	FAIRFIELD	18"						11,000
8	4TH STREET	20"	24"					33,000
9	MONTZ PRESCOTT CANAL	30"	30"	30"				76,000
10	NEW SARPY	36"	36"	36"				102,000
11	OAK STREET	20"	24"					33,000
12	OAKLAND	18"	24"					30,000
13	SCHEXNAYDRE	36"	48"	36"				123,000
14	WALKER CANAL	36"	12"	36"				74,000
15	ALMEDIA ROAD	24"	24"	24"				54,000
16	ALMEDIA STRUCTURE	30"						26,000
17	BANKONE	24"						24,000
18	FOX LANE	24"						18,000
19	HARDING STREET	6"						1,400
20	RIVER BEND #1	24"	24"					36,000
21	RIVER BEND #2	24"	24"					36,000
22	TURTLE POND HYDRAULIC	24"	12"					24,500
23	WALKER STRUCTURE	30"	30"					52,000
24	WET LAND WATCHERS	3"	3"					440

PUMP STATIONS WEST BANK

- Total Stations 34
- Total Pumps 91
- Stations on SCADA 17
- West Bank 3,082,155 GPM

WEST BANK										
	STATION NAME	PUMP SIZE								TOTAL GPM
		Pump #1	Pump #2	Pump #3	Pump #4	Pump #5	Pump #6	Pump #7	Pump #8	
1	AMA SELLERS	42"	42"	36"	36"					154,000
2	CORTEZ	24"	24"							38,000
3	DAVIS / BARTON	42"	20"	42"						100,980
4	DAVIS POND	48"	48"	48"						165,000
5	EIGHTY ARPENT	48"	48"	42"	42"	48"	48"	48"	48"	422,000
6	ELLINGTON	42"	42"	42"	42"					144,800
7	GEORGE COUSINS	48"	48"	42"	42"	48"	48"	48"	48"	418,000
8	HACKBERRY	16"	16"							16,000
9	KELLOGG	42"	42"	42"						155,325
10	LAKEWOOD SOUTH	36"	36"							68,000
11	MAGNOLIA RIDGE	42"	42"	42"	42"					152,000
12	OLD KELLOGG ELECTRIC	12"	8"							7,000
13	PARADIS	30"	20"	24"						63,000
14	SUNSET	60"	60"	60"	30"	30"	36"			384,750
15	TIBBY	42"	42"							92,000
16	WILLOWDALE	54"	54"	54"						235,500
17	WILLOWRIDGE	48"	48"	48"						134,400
18	3127/BARRIERE	24"								24,000
19	BARTON SUMP	12"								4,000
20	BAYOU ROAD	3"	3"							320
21	BOUTTE	24"	24"							53,000
22	CORONADO #1	18"	18"							28,000
23	CORONADO #2	18"	18"							28,000
24	DAVIS SUMP	12"								4,000
25	ERIC SUMP	3"	1.5"							160
26	HAHNVILLE HIGH SCHOOL	16"								8,000
27	LAGATTUTA	20"	18"	8"						24,000
28	LAKEWOOD NORTH	8"	8"	30"						36,800
29	LAKEWOOD SCHOOL	16"								8,000
30	LOW STREET HYDRAULIC	24"								24,000
31	MIMOSA	24"	24"							27,800
32	NOLA STREET	30"	12"							27,000
33	RANDOLPH	36"								34,000
34	TUNNEL SUMP	3"	3"							320

PUMP STATIONS TELEMETRY MAP



PUMP STATION CAPITAL PROJECTS

AMA PUMP STATION UPGRADE



Add two 36" Pumps to the existing station to increase the station capacity from 92,000 GPM to 154,000 GPM. Install new bar screens and a new outfall pipe.

CONTRACTOR: Couvillion Group

ENGINEER: Civil & Environmental Consulting

CONSTRUCTION COST: \$2,752,705.00

CONSTRUCTION START: February 22, 2022

CONSTRUCTION END: June 8, 2023



DESTREHAN PUMP STATION NO. 2 BAR SCREEN AND SUMP IMPROVEMENTS



This Renovation Project will enlarge the Sump, remove sheet piles to open the entry to the sump, add new bar screens, and provide access from the back sump to the 72" Pumps.



CONTRACTOR: Sealevel Construction

ENGINEER: Picciola & Associates

CONSTRUCTION COST: \$9,190,697.00

CONSTRUCTION START: August 1, 2023

CONSTRUCTION END: June/July 2024

UPCOMING PROJECTS

Sunset Auto Bar Screens

- Construction anticipated in First Quarter 2024

Montz Pump Station No. 1 (at CN Railroad)

- Construction anticipated in Second Quarter 2024

Sunset Pump Station Upgrade

- Construction anticipated in Third Quarter 2024

Engineers Canal Pump Station Improvements

- Construction anticipated in Fourth Quarter 2024

DRAINAGE CONVEYANCE CAPITAL PROJECTS

HILL HEIGHTS DRAINAGE IMPROVEMENTS EAST DITCH PHASE 1 – EMERGENCY REPAIR



CONTRACTOR: APC Construction

ENGINEER: BBEC

CONSTRUCTION COST: \$728,098.20

CONSTRUCTION START: March 20, 2023

CONSTRUCTION END: June 19, 2023



DUNLEITH CANAL – HYDRAULIC BOTTLENECK SOUTH OF DESTREHAN PUMP STATION 2



CONTRACTOR: Cycle Construction

ENGINEER: Evans-Graves

CONSTRUCTION COST: \$2,264,960.00

CONSTRUCTION START: March 6, 2023

CONSTRUCTION END: Nov./Dec. 2023

Project will straighten the canal bank by installing steel sheet pile to enlarge the canal capacity and eliminate an existing bottleneck in the canal.

IMTT DRAINAGE CONVEYANCE IMPROVEMENTS



The Drainage Ditches on the East and West sides of the IMTT Plant were cleared allowing for better drainage flow from River Road to the CN Railroad Tracks.



PROJECTS IN BID PROCESS

Primrose Canal Cleaning & Improvements – Phase 1A

- Bid Opening was on August 8, 2023
- Low Bidder was Omega Foundation Services with a bid of \$2,757,000.00

Engineers Canal Bank Stabilization – Phase 1: Station 10+50 to Station 15+70

- Bid Opening was on October 3, 2023
- Low Bidder was Cycle Construction with a bid of \$1,405,350.00

Des Allemands Bulkhead Phase 1 – Permanent Repair

- Bid Opening is on October 24, 2023
- Engineer's Estimate – \$5,744,915.00

UPCOMING PROJECTS

Ormond CN Railways Culverts (Sites 1 & 2)

- Construction anticipated in First Quarter of 2024

King and Hahn Street Drainage Improvements

- Construction anticipated in Second Quarter 2024

Ormond Center Drainage Improvements

- Construction anticipated in Second Quarter 2024

Primrose Canal Cleaning and Improvements – Phase 1B

- Construction anticipated in Third Quarter of 2024

UPCOMING PROJECTS

Murray Hill and Destrehan Drive Drainage Improvements

- Construction anticipated in Third Quarter 2024 (When Funding is Available)

Evangeline Road & CN Railroad Box Culverts

- Construction anticipated in Third Quarter 2024

Hill Heights Drainage Improvements Phase 2

- Construction anticipated in Third Quarter 2024 (When Funding is Available)

UP Railroad Drainage Ditch and Outfall Improvements

- Construction anticipated in Fourth Quarter 2024 (GOMESA Funding if Available)

Lemoine Lane, Hirsch Street and St. Mark Street Drainage Improvements

- Construction anticipated in Fourth Quarter 2024 (GOMESA Funding if Available)

PUBLIC WORKS FIELD CREWS

WORK ORDER REPORT

- Total of 13,977 Work Orders completed January 1, 2023 to September 30, 2023.
- 13,000 Work Orders were completed for the operation and maintenance of the Parish Pump Station System.
- Work Order numbers for Drainage Heavy Equipment and West & East Bank Road Crews include projects completed by those groups.

Work Order By Group	Count by Group
SUNSET DRAINAGE	336
DRAINAGE MAINTENANCE	2,289
WEST BANK DRAINAGE OPERATIONS	6,152
EAST BANK DRAINAGE OPERATIONS	3,532
SCADA-TELEMETRY	695
DRAINAGE HEAVY EQUIPMENT	93
WEST BANK ROAD CREWS	265
EAST BANK ROAD CREWS	350
EAST BANK SHOP	175
WEST BANK SHOP	90
TOTAL WORK ORDERS	13977

PUBLIC WORKS EQUIPMENT

TO BE PURCHASED WITH \$1.3M GRANT

ST. CHARLES PARISH EQUIPMENT LIST

Grabber Truck	1	@	\$250,000.00	=	\$250,000.00
Skid Steer with Chipper	1	@	\$100,000.00	=	\$100,000.00
5100e Bush Hog Tractor	1	@	\$70,000.00	=	\$70,000.00
F250 Pickup Truck Box Bodies	4	@	\$50,000.00	=	\$200,000.00
F150 Pickup Truck	8	@	\$35,000.00	=	\$280,000.00
24" Hydraulic Pump	2	@	\$200,000.00	=	\$400,000.00
TOTAL EQUIPMENT COST				=	\$1,300,000.00

NOTE: Tractor cost was \$81,000. Parish had \$11,000 from insurance for wrecked tractor

PUBLIC WORKS – TORNADO RESPONSE



ZELLER STREET DRAINAGE IMPROVEMENTS

ST. MARKS STREET DITCH



New drainage system next to the Park eliminated the ditch.

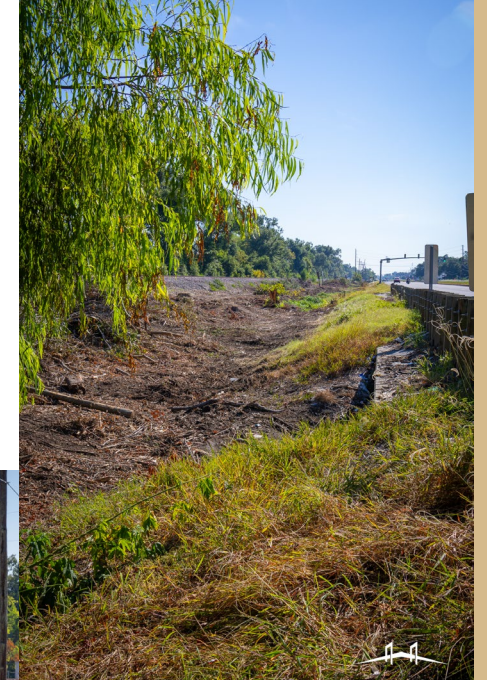
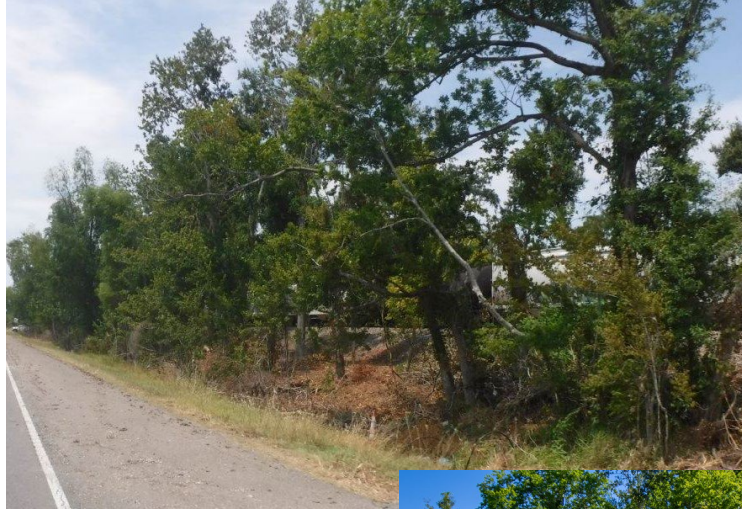


Project redirected flow off Zeller Street and into improved St. Mark Drainage System.



Finished Catch Basin next to Park.

US 90 BEAUTIFICATION OAK LANE TO WALMART SIGNAL

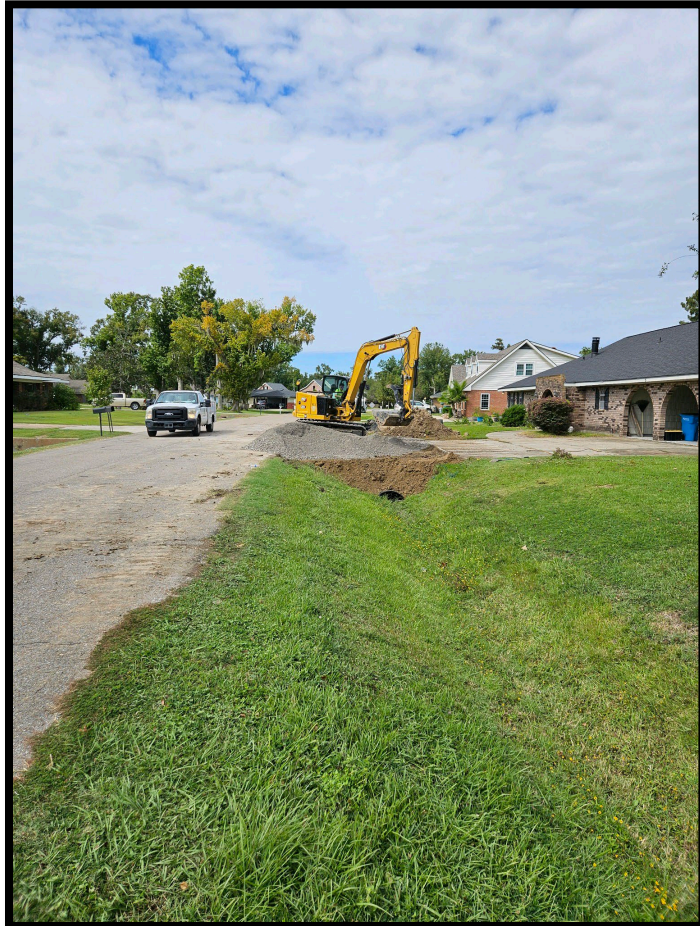


Working with the LDOTD and BNSF Railroad, Public Works cleared the overgrowth along US 90 to improve drainage and beautify the US 90 Corridor.



MICHAEL DRIVE SUBSURFACE DRAINAGE REPLACEMENT

The Subsurface Drainage system collapsed. Public Works replaced pipes and catch basins to improve flow.



EVANGELINE ROAD COULEE DRAINAGE IMPROVEMENTS



In Montz where the Coulee crosses Evangeline Road, Public Works improved catch basins and laid new pipe to improve drainage flow.



PUBLIC WORKS – WORK ORDERS



4th Street
Drainage
Improvements



Ormond Meadows
Culvert Replacement

Ditch Cleaning along
CN Railroad Tracks



SUPPORTING THE FUN SIDE OF LIFE



Public Works provides Traffic Control and Barricades for events throughout the Parish. The following are examples:

- **Hahnville/Destrehan Football Game**
- **4th of July Fireworks**
- **Mardi Gras**
- **Norco Christmas Parade**
- **Alligator Festival**
- **Catfish Festival**
- **Battle for the Paddle**
- **United Way 5k Bridge Run**



QUESTIONS?

The Project Construction Cycle - The Tree Swing



How the client described it



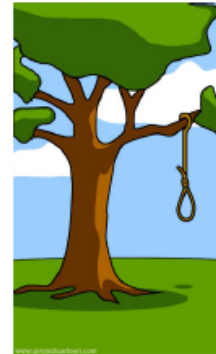
How the architect envisioned it



How the engineer designed it



What the budget allowed



How the liability insurance agent described it



How the estimator bid it



How the manufacturer made it



What the building inspector expected



How the contractor installed it



What the customer really wanted



How the project was documented



How the customer was billed