

WATER MAIN BREAK/UN-PLANNED WATER OUTAGE

INCIDENT REPORT

Event Date/Time: **November 21, 2023 +/- 3pm**

Personnel Onsite: Valerie Mundy P.E., Sidney Silas, Youth Thompson

1. Cause of Damage:

Directional drilling being performed by Duke Energy contractor damaged an existing 6" water main

2. Company Responsible for Damage:

Duke Energy/KAM Services

3. Company Performing Repair:

Frank Gay, Surface King

4. Pipe Conditions:

On Tuesday November 21st, the Duke Energy contractor, KAM Services, struck a 6" water main while directional drilling on Kennedy Blvd., at the intersection of Wymore Rd. The Public Works director spoke to KAM Services and they notified us that they did not have a Town of Eatonville Right of Way (ROW) permit, but they had an Orange County ROW permit. We immediately notified them to stop work.

The Town Public Works department had a blackout on all drilling by contractors during the Thanksgiving week. The Town was not aware that the Duke Energy contractor was drilling on that Tuesday, because they did come through the Town for a permit. That contractor was not aware of the drilling black-out during the holiday week that was required by contractors working in the town. They were working without the supervision of the Eatonville Public Works department because there was no permit.

The Frank Gay team responded to our emergency call to repair the water main damage from the directional drilling for a new fiber installation for Duke Energy's fiber run to their transmission yard on Wymore.

The Frank Gay team began to excavate at 6pm the evening of Nov. 21st. Once the damaged pipe was located it was found to be asbestos concrete (AC), which is known to crumble if not handled properly.

We attempted to place a collar on the pipe but could not unless we could isolate the water. For several hours, attempts were made to locate working gate valves, but no success.

A decision was made to shut down the water at the plant and the tower. We notified the Town residents in the system On-Call alert. After turning the water off, we were able to repair the pipe. By 11pm, the water was able to be turned back on, everything was functioning properly.

DAY 1 – Tuesday 11/22/23





Orange County Public Works

RIGHT OF WAY UTILIZATION CONSTRUCTION PERMIT APPLICATION

Submit three (3) Completed Application Copies with Three (3) sets of Plans

CHECK APPROPRIATE BOX

- Right of Way Utilization
- Underground Utility
- Pipeline Construction

OFFICIAL USE ONLY

| | | | |
|---------------------------|--------|-------------|-----------|
| Permit #: 23-R-2743 | Fee \$ | Receipt #: | COPIES |
| Permit #: | Fee \$ | Receipt #: | ORIGINAL |
| DATE RECEIVED: 06/18/2023 | | DISTRICT: 2 | INSPECTOR |
| | | | FILE |

SECTION I GENERAL INFORMATION

Applicant Name: Kim Ray Firm Name: PLR Consulting
 Address: 13726 Fareham Rd. Odessa, FL 33556
 Phone No.: 8132451816 Start Work Date: _____
 Construction/Installation Location: _____
 MOT REQUIRED? MOT # 23-MOT-02889 SECTION: _____ TOWNSHIP: _____ RANGE: _____
 Description of Proposed Work: A 1x2" hdpe will be placed from the substation on the east side of N Wymore Rd. It will continue south to W Kennedy Blvd. A HH will be placed on the SE side of N Wymore and W

SECTION II COMPLETE APPLICABLE SECTIONS

Number and Type of Underground Road Crossing(s)
 NONE OPEN CUT (Paved) OPEN CUT (Unpaved) BORE/JACK OTHER (Specify) _____
 I certify that all other right of way users and municipalities in the immediate vicinity of the proposed construction/installation, have been notified in writing on (DATE) _____ of the proposed work, by the applicant, in order to determine if there are any objections to the proposed construction/installation, including the franchised gas company, whose name and Gas I.D. number is furnished herewith.
 GAS _____ I.D. NO.: _____
 Title of Approved Plans and Date of County Engineer's Approval (if Applicable): _____ Date: _____

Construction Cost (Contract Amount - Includes Labor, Materials, etc) \$ 22000
 Date: _____ Applicants Signature: _____ Title: _____

SECTION III STAMPS OF DIRECTIVES

PERMIT INSPECTION NOTICE Call 48 HOURS prior to Construction Phone (407) 836-7920 Fax (407) 836-8003

TRAFFIC CONTROL TO BE IN ACCORDANCE WITH APPROVED M.O.T.

48 HOURS BEFORE YOU DIG CALL SUNSHINE 1-800-432-4770 PER THE LAW OF FLORIDA

RESORTATION TO BE AS DIRECTED BY INSPECTION

*APPROVED provided Florida Statutes 125.022, issuance of this development permit by the County does not in any way create any right on the part of the applicant to obtain a permit from a state or federal agency and does not create any liability on the part of the County for issuance of the permit if the applicant fails to obtain requisite approvals or fulfill the obligations imposed by a state or federal agency or undertakes actions that result in a violation of state or federal law. The applicant shall obtain all other applicable state or federal permits before commencement of development.

SECTION IV THIS SECTION IS FOR OFFICE USE ONLY

Approval subject to General Law and the following (if box is checked see attached): **CONDITIONS OF APPROVAL**
 Permit Approval Date: 09/27/2023 Permit Expiration Date: 09/25/2024

Approved by: Julia C Sevilla Morales For the County Engineer
 NOTE: Notify the Inspection Section of Development Engineering at (407) 836-7920 24 HOURS prior to the commencement of construction. All materials must be inspected prior to installation.

SECTION V CERTIFICATE OF COMPLETION

Inspector: 124713@OCFL.NET Date: _____

DAY 2 – Wednesday 11/23/23



6. Did Isolation Valves turn off water to the affected site?

No.

7. Duration of Water Repair?

12 hrs

8. Disinfection Testing Performed?

Yes, by Biometric Utilities - on 11/27 and 11/28 - Both tests were absent of contamination.

9. Loss of Water

60,000 gallons

Rate \$2.50/1000 gallons

Estimated cost of water loss - \$ 150.00

10. Repair contractor expense

Frank Gay - \$26,700.00

Surface King - \$43,155.00

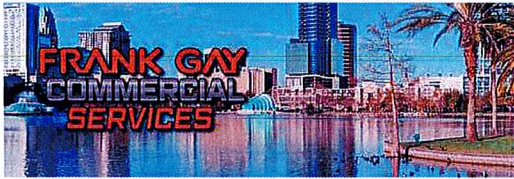
Lapin - \$ 5,350.00

Flash Rite - \$ 1,218.00

11. Staff Overtime

18 hrs overtime \$ 990.00

Total cost of break \$77,413.00



Frank Gay Services, LLC.
 3763 Mercy Star Ct.
 Orlando, FL 32808
 (407) 777-2256

BILL TO

Town of Eatonville
 307 East Kennedy Boulevard
 Eatonville, FL 32751 USA

| | |
|-----------------------------|-------------------------------------|
| INVOICE 144985178 | INVOICE DATE Nov 30, 2023 |
|-----------------------------|-------------------------------------|

JOB ADDRESS

RHONDA ANDERSON- TOWN OF EATONVILLE
 307 East Kennedy Boulevard
 Eatonville, FL 32751 USA

Completed Date: 11/30/2023
Technician: Brandon Wright
License #: SP-50
Technician: Joseph Lindsey
License #: SP-49
Technician: Tyler Bennett
License #: SP-111
Technician: Matthew Mabbitt
Technician: Nicholas Shaw
Payment Term: Net 30
Due Date: 12/30/2023

DESCRIPTION OF WORK

- Mobilized and arrived on site to address the issue of water coming up from one side of the road.
- Started digging at the location but later discovered that the water was actually traveling under the road.
- Identified the actual leak on the other side of the road and used a laptins vactor truck to prevent water from affecting our work.
- Found a hole in the pipe caused by boring and attempted to isolate the area using various valves, but none were successful.
- The Town of Eatonville made the decision to shut off the water supply to the entire town to facilitate the repair process.
- Installed two hymax couplings to fix the pipe, but encountered a defect in one of them which caused a leakage. Replaced it with a different style repair clamp to reconnect to the existing pipe.
- We will return the next day to fill in the excavation and ensure cleanliness of the area.
- The following working day, we met with Orange County inspectors to determine the necessary road repairs.
- Collaborated with Surface King for assistance in repairing the road.
- Cut out a 5'x 30' trench across Kennedy Blvd at the washed-out area, and brought in new base material which was compacted and underwent compaction tests after each layer.
- Removed all excess dirt and asphalt from the site, and used a street sweeper to clean the area.

| TASK | DESCRIPTION | QTY | PRICE | TOTAL |
|------|---------------------------|-------|----------|------------|
| 1 | Plumbing Technician (OT): | 50.00 | \$180.00 | \$9,000.00 |

Overtime Labor rate for Commercial Plumbing Technician (Per Hour)

| | | | | |
|---|--|-------|------------|------------|
| 2 | Plumbing Technician: Labor Rate for Commercial Plumbing Technician (Per Hour) | 80.00 | \$120.00 | \$9,600.00 |
| 3 | TRACKHOE: Daily TRACKHOE Price for FGS Equipment | 1.00 | \$600.00 | \$600.00 |
| 4 | DUMP TRUCK: Daily DUMP TRUCK Price for FGS Equipment | 1.00 | \$600.00 | \$600.00 |
| 5 | Misc Service: Street sweeper | 1.00 | \$3,200.00 | \$3,200.00 |

Materials

| MATERIAL | DESCRIPTION | QUANTITY | YOUR PRICE | YOUR TOTAL |
|----------|-----------------------------------|----------|------------|------------|
| 1 | 2 hymax couplings and sch 80 pipe | 1.00 | \$2,750.00 | \$2,750.00 |
| 2 | Road base | 1.00 | \$950.00 | \$950.00 |

| | |
|--------------------|--------------------|
| SUB-TOTAL | \$26,700.00 |
| TAX | \$0.00 |
| TOTAL DUE | \$26,700.00 |
| BALANCE DUE | \$26,700.00 |

Thank you for choosing Frank Gay Commercial Services

CUSTOMER AUTHORIZATION

This invoice is agreed and acknowledged. Payment is due upon receipt. A service fee will be charged for any returned checks, and a financing charge of 1% per month shall be applied for overdue amounts.

As a condition precedent to Frank Gay Services LLC being obligated to the giving of credit or replacement Frank Gay Services, LLC. must be given written notice identifying the defective good and specifying the defect within ten (10) days after receipt of the goods by customer. This part has to be saved for our inspection of the defective part.

Acknowledgment of Estimate – The above prices, specifications, and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made upon completion unless otherwise specified. If payment is not received when work has been completed by a representative of Frank Gay Services, LLC, an 18% compounded interest will be added monthly to the total outstanding balance. Note: This proposal may be withdrawn by us if not accepted in 30 days. When signed, this will become a legal binding contract under Florida law with consideration of a \$10.00 value.

Sign here

Date

CUSTOMER ACKNOWLEDGEMENT



Surface King, LLC
 9712 S. Orange Ave
 Orlando, FL 32824 US
 (407)855-5959
 donald@surfaceking.com
 http://www.surfaceking.com

Invoice

BILL TO
 Town of Eatonville
 307 East Kennedy Blvd.
 Eatonville, FL 32751

SHIP TO
 Town of Eatonville
 19 East Kennedy Blvd.
 Eatonville, FL 32751

| INVOICE # | DATE | TOTAL DUE | TERMS | ENCLOSED |
|-----------|------------|-------------|----------------|----------|
| 2023-286 | 11/30/2023 | \$43,155.00 | Day of Invoice | |

| ACTIVITY | QTY | RATE | AMOUNT |
|---|-----|------|-----------|
| 1. Mobilization and De-mobilization | | | 6,525.00 |
| 2. Base Rock Compaction and Testing | | | 3,565.00 |
| 3. Asphalt Pavement Installation - Mill and Pave | | | 27,465.00 |
| 4. Temp Striping (Minimum Flat Rate) | | | 1,950.00 |
| 5. Permanent Striping - Thermo (Minimum Flat Rate) | | | 3,650.00 |

BALANCE DUE

\$43,155.00

1.5% Carrying Cost/Interest Fee Per Month if This Invoice
 is Not Paid in 30 Days from Date of Invoice

LAPIN SEPTIC TANK SERVICE, INC.
 3031 W. 40TH STREET
 ORLANDO, FL 32839
 (407) 841-8200 (407) 425-9265 (FAX)



Invoice

| Date | Invoice # |
|------------|------------|
| 11/24/2023 | 0000167512 |

Billing Address

TOWN OF EATONVILLE
 307 EAST KENNEDY
 EATONVILLE, FL 32751

Service Address

TOWN OF EATONVILLE
 307 EAST KENNEDY
 EATONVILLE, FL 32751

| Customer PO | Project | TAX ID | Terms | Due Date |
|---|----------|--------|----------|------------|
| | | | NET 30 | 12/24/2023 |
| Description | Rate | Qty | Amount | |
| SEPTIC TANK JET/ VACTOR CLEAN CERTIFIED TECHNICIAN TO USE HIGH PRESSURE WATER JET/VACUUM TRUCK TO CLEAN SAND, SILT AND DEBRIS FROM SEPTIC TANK. | 2,925.00 | 1 | 2,925.00 | |
| SEPTIC TANK JET/ VACTOR CLEAN CERTIFIED TECHNICIAN TO USE HIGH PRESSURE WATER JET/VACUUM TRUCK TO CLEAN SAND, SILT AND DEBRIS FROM SEPTIC TANK. | 2,425.00 | 1 | 2,425.00 | |
| Sales Tax | 0.00 | | 0.00 | |
| <p>"Now you can pay your invoices online! We will email you the invoice, click pay invoice, and pay with a major credit card or bank transfer on a secure site with Intuit. It is that easy! Email accounting@lapinservices.com or call 407-841-8200 ext. 315 to request your invoice(s)."</p> | | | | |

If this invoice is not paid by due date service charges will be added to the above amount at the rate of 1.5% per month (A.P.R 18%) and will accrue from the due date.

"When you provide a check as payment, you authorize us either to use information from your check to make a one-time electronic fund transfer from your account or to process the payment as a check transaction."

| | |
|-------------------------|------------|
| Total | \$5,350.00 |
| Invoice Balance | \$5,350.00 |
| Payments/Credits | \$0.00 |

FLASH-RITE, INC.

115 Atlantic Drive
Maitland, Florida 32751

Invoice

| Date | Invoice # |
|------------|-----------|
| 11/30/2023 | 35891-A |

| Bill To |
|---|
| TOWN OF EATONVILLE 307 E. KENNEDY BLVD. EATONVILLE, FLORIDA 32751 |

| Ship To |
|---|
| EMERGENCY WATER MAIN BREAK WYMORE RD & KENNEDY BLVD ORANGE COUNTY |

| P.O. Number | Terms | Project |
|-------------|--------------|---------|
| | UPON RECEIPT | |

| Description | Quantity | Rate | Amount |
|--|----------|--------|--------|
| MAINTENANCE OF TRAFFIC - 11-22-23 - WYMORE RD & KENNEDY - LANE SHIFT | 1 | 750.00 | 750.00 |
| 30 DRUMS X 8 DAYS | 240 | 0.70 | 168.00 |
| 13 SIGNS, ST. MTD. X 8 DAYS | 104 | 1.25 | 130.00 |
| DELIVERY CHARGES | 1 | 60.00 | 60.00 |
| PICK-UP CHARGE | 1 | 60.00 | 60.00 |
| FUEL CHARGE | 2 | 25.00 | 50.00 |
| BILLING 11-22-23 THRU 11-29-23 EQUIPMENT CALLED OFF 11-29-23 | | | |
| SUPERVISOR VALERIE 407-576-2642 | | | |

| | | |
|---|-------------------------|------------|
| | Subtotal | \$1,218.00 |
| The above prices do not include labor for lane closure or set-up's unless noted. Flash-Rite, Inc. shall not perform or deemed to perform as at/the "Worksite Traffic" Supervisor (FDOT) specification 102.3.2. Customers are responsible to monitor all closures. There will be a \$50.00 NTO charge that automatically will be billed. | Sales Tax (6.5%) | \$0.00 |
| | Total | \$1,218.00 |
| | Payments/Credits | \$0.00 |
| | Balance Due | \$1,218.00 |

| Phone # | Fax # |
|--------------|--------------|
| 407-834-0408 | 866-941-6695 |

WATER MAIN BREAK/UNPLANNED WATER OUTAGE STANDARD OPERATING PROCEDURE

Town of Eatonville - Public Works Department

Procedure:

Water Main Break/Unplanned Water Outage S.O.P.

Procedure ID:

Revision Date: 11/3/2023

By: Valerie Mundy, P.E.

Approved by: Valerie W. Mundy, P.E. Public Works Director; Town of Eatonville, FL

Approval Date:

Purpose: Water Main Break and Interruption of Water Service

1. Whenever possible, repair work shall be performed without interruption of service. If an interruption is necessary, the repair plan shall include considerations to minimize the length of time for the outage. These considerations include measures to assure all equipment and supplies to effectuate the repair are available at the site to expedite the repair once service is interrupted.

2. Pipe Conditions If pipe cannot be repaired under pressure by use of a repair clamp, the pipe should not be completely depressurized until the pipe is exposed and the pit meets the conditions described in 8 below. After the pipe is unpressurized, a continuous outflow of water from the pipe on each side of the repair should be maintained during the repair process to eliminate the potential for the introduction of contaminants, and to facilitate ongoing flushing action.

Precautionary boil water notices shall be issued when these conditions cannot be maintained.

3. Magnitude of Area Impacted Consideration shall be given to the relative size of the area impacted not only regarding geographic size but also to the number of customers affected. A broken water main encompassing a small area, and a limited number of customers still could have negative consequences on the health of those affected. It is thus important that precautionary measures are undertaken by the water utility.

4. Potential Hazards A survey of potential hazards in the vicinity of the work area shall be completed. Potential sources of contamination such as septic systems or underground storage tanks may be cause to issue a precautionary boil water notice regardless of safeguards implemented at the work site. Due consideration should be given to this potential on a case-by-case basis. Service connections within the area of consideration should also be surveyed. Any connection without the proper type of backflow prevention device, and, or the presence of multi-story buildings shall be factored into the decision-making relative to potential for contamination.

5. Flushing Whenever possible, unidirectional or bi-directional flushing towards the work site should be done before, during, and after a water main break or repair activity. As a measure of flushing effectiveness, chlorine residuals shall be evaluated in the immediate and surrounding areas around the repair site. Flushing should be continued until system residuals are resumed and stabilized within the water distribution system, to achieve the minimum required disinfectant residual throughout the system.

6. Isolation of Area In an effort to localize drops in service pressure, minimize impacts to service, and reduce opportunities for contamination, valves should be closed or throttled as needed to isolate the repair area as much as

WATER MAIN BREAK/UNPLANNED WATER OUTAGE STANDARD OPERATING PROCEDURE

Town of Eatonville - Public Works Department

Procedure:
Water Main Break/Unplanned Water Outage S.O.P.

Procedure ID:

Revision Date: 11/3/2023
By: Valerie Mundy, P.E.

possible. The length of pipe(s) with a reduction in pressure or less than full pipe conditions should be minimized.

7. Service Connections Consideration to backflow and the presence of multi-story buildings should be given in order to reduce the potential for the water main to have contaminants introduced, thus it may be prudent to valve off applicable service connections in the area impacted.

8. Pit Considerations Standing surface, ground, or potable water in the pit of a water main break should not be allowed to remain during periods of unpressurized pipe conditions, less than full pipe flow, or whenever flow is not being maintained. Portable dewatering pumps shall be utilized to keep the hole dewatered below the pipe inverts during all repair activities. Additionally, soil should be excavated to a minimum depth of 12 inches below the pipe inverts. Precautionary boil water notices shall be issued when these conditions cannot be maintained.

9. Disinfection and Bacteriological Testing All repair items, piping, and appurtenances shall be properly disinfected or swabbed in accordance with Rule 62-555.340, F.A.C., and AWWA Standard C651. As a record of procedural BMP effectiveness, a minimum of one bacteriological sample should be collected on either side of the repair area for two consecutive days. In the case of precautionary boil water notices, they may be lifted after receipt of one day of satisfactory analytical results. However, if the analytical results are positive, two consecutive days of satisfactory water quality analyses are required prior to rescinding the boil water notice. The utility shall coordinate this activity with the local FDEP and/or DOH representatives.

10. Type of Event Unplanned repair or outages have an inherently higher risk of potentially impacting public health than planned or "controlled" events. Hence, this should be duly weighted into decisions regarding issuance of precautionary boil water notices. As such, coordination between the DEP or DOHICHD office and the affected utility is important to determine the necessity for the issuance of a precautionary boil water notice. It is important that the actions of the affected utility comply with Rule 62-555.340, F.A.C.

Communications

Administration: Public Works to contact the Town Clerk via email and all department heads to notify them of the water main break.

Public: Public Works to notify the public via the Town's Phone Tree. Notify the local television station of the outage and if there is a boil water notice.

Regulatory: Biometric Utility will notify FDEP