



City of Conway

Street & Engineering Department

# ANNUAL REPORT

FY 2018

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# GENERAL DESCRIPTION

## General Description

### MISSION STATEMENT

To provide professional, courteous services to the citizens of Conway, and bring value, efficiency and quality to municipal operations through precision, discernment, and dedication.

### VISION STATEMENT

To provide the safest, most efficient transportation and storm water infrastructure systems in the state to every resident and visitor of Conway.

### PRIMARY FUNCTIONS

The City of Conway Street & Engineering Department is solely responsible for maintaining the city's approximately 365 miles of local roadways and approximately 60 traffic signals. In addition, the department provides engineering and construction inspection services for the City of Conway.

### HIGHWAY TURNBACK FUNDS REPORTING

All information necessary to satisfy the City of Conway's reporting requirements to the Arkansas House Public Transportation Committee and the Senate Transportation, Technology and Legislative Affairs Committee, regarding utilization of highway revenues and highway severance turnback funds, is contained within this document and highlighted in yellow; specifically,

- "...a general ledger accounting of the city or county street/road fund..."
- "...the percentage of the street/road fund that is comprised of state funds..."
- "...details of each contracted project including type and description of project, and total amount of money spent on the project..."

### STAFF

Forty-seven positions (forty-four full-time, two part-time, and one contract labor) were authorized for the Street & Engineering Department by the City Council for 2018. Due to our high turnover rate and difficulty in finding qualified personnel, approximately thirty-five of these positions were filled at year end. These staff were categorized into the following sections:

#### DEPARTMENTAL DIVISIONS

DIVISION	# OF EMPLOYEES
Administration	3
Engineering	3

# GENERAL DESCRIPTION

Traffic	4
Construction	15
Maintenance	10

## MAJOR PROJECTS

The following major projects were either being designed or constructed during 2018:

- **Bean Street Improvements** – *S Center to S German*
- **Bean Street Parking Lot** – *Conway Station Park*
- **Laurel Park Parking Lot** – *Robinson Avenue*
- **Bruce Street/6th Street Improvements** – *Harkrider to Interstate 40*
- **College & Salem Intersection Improvements** – *Roundabout*
- **Zagster/UCA Bike Share Partnership** – *Student Center, Bear Village, Mashburn, Lewis, Thompson*
- **Zagster Bike Share Stations** – *Glenrock Apartments, Centerstone Apartments*
- **Eve Lane Improvements** – *1 to 18*
- **Dave Ward Drive Adaptive Signal Control System** – *Hogan to I-40*
- **Dave Ward Drive Pedestrian Overpass** – *Stone Dam Creek Trail*
- **Pavement Marking** – *Ward 2*
- **Pedestrian Bridge Replacement** – *Gatlin Park @ Tucker Creek*
- **Markham Street Improvements** – *Van Ronkle to Mill*
- **Chestnut & Van Ronkle Improvements** – *Roundabout*
- **Tyler Street Sidewalk** – *Gatlin Park to Washington*
- **College & Country Club Improvements** – *Roundabout*
- **Kinley Trail Maintenance/Hydraulic Improvements** – *Hogan to Railroad*
- **Oak & E. German Modifications** – *Traffic Signal*
- **Augusta Avenue Improvements** – *Robinson to Louvenia*
- **Harkrider & Bruce Improvements** – *Traffic Signal*
- **Oak Street Adaptive Signal Control System** – *Harkrider to E. German*

# STREET FUND

## Street Fund

### REVENUE

Below is a summary of revenue as of January 2, 2018. An accounting of actual street fund revenue will be completed in early 2019. For more information, please contact the Finance Department.

#### 2018 REVENUE

SOURCE	BUDGETED	ACTUAL
Ad Valorem Tax	\$1,500,000.00	\$1,495,081.41
Sales Tax	\$270,000.00	\$277,730.55
State Tax Turnback – Gasoline	\$2,683,474.00	\$2,417,053.23
State Tax Turnback – Sales	1,100,000.00	\$1,237,108.10
Severance Tax	\$75,000.00	\$134,459.19
Payments in Lieu of Tax	\$8,000.00	\$0.00
Sign Permits	\$0.00	\$1,620.00
Engineering Fees	\$5,000.00	\$21,750.00
Interest Income	\$40,000.00	\$95,839.00
Insurance Proceeds	\$0.00	\$0.00
Fund Balance Appropriation	\$0.00	\$0.00
Miscellaneous Revenues	\$10,000.00	\$1,403.91
<b>TOTAL</b>	<b>\$5,691,474.00</b>	<b>\$5,729,414.85</b>

The underlined funding sources shown above indicate state funds. The percentage of the Street Fund that was comprised of state funds in 2018 was 67.79% of budgeted revenue and 66.13% of actual revenue.

### EXPENSES

The summary below reflects all expenditures processed for the 2018 fiscal year as of January 2, 2018.

#### 2018 EXPENDITURES

CATEGORY	BUDGETED	ACTUAL
Personnel	\$2,907,304.00	\$2,118,689.56
Professional Services	\$124,250.00	\$91,290.19

# STREET FUND

Maintenance & Construction	\$2,416,144.12	\$1,953,455.95
Traffic Signal Maintenance	\$410,781.76	\$471,560.78
Alternative Transportation	\$296,932.38	\$251,699.73
Fuel & Supplies	\$237,500.00	\$165,858.94
Other Operating Expenses	\$165,500.00	\$67,756.58
Capital Improvement Projects	\$250,558.15	\$265,094.69
Capital Equipment	\$250,857.87	\$292,631.00
<b>TOTAL</b>	<b>\$7,059,828.28</b>	<b>\$5,678,037.42</b>

At the time of publication of this report the ratio of expenditures to revenues for the Street fund was approximately 99.1%. The summary below reflects all expenditures processed for the 2018 fiscal year as of January 2, 2019 in accordance with state required categories.

## 2018 EXPENDITURES (STATE CATEGORIES)

CATEGORY	BUDGETED	ACTUAL
Bicycle Paths	\$0.00	\$0.00
Bridges	\$0.00	\$0.00
Drainage Maintenance	\$0.00	\$0.00
Highways	\$0.00	\$0.00
Hot Mix, Asphalt, Gravel, Concrete, Paint, Steel	\$631,938.12	\$410,361.00
Intelligent Transp. Systems	\$0.00	\$0.00
Intermodal Facilities	\$0.00	\$0.00
Other Surface/Water Transp.	\$0.00	\$0.00
Parking Facilities	\$0.00	\$0.00
Pedestrian Ways	\$0.00	\$0.00
Port Authorities	\$0.00	\$0.00
Public Transit Systems	\$177,000.00	\$177,000.00
Railroads	\$0.00	\$0.00
Roads/Streets	\$5,792,058.02	\$4,706,672.12
Safety Improvements	\$12,500.00	\$15,598.00
Sidewalks	\$119,932.38	\$74,699.73
Lighting/Right of Way Maint.	\$20,000.00	\$26,843.37

# STREET FUND

Toll Facilities	\$0.00	\$0.00
Traffic Mgmt. Systems	\$0.00	\$0.00
Traffic Signal Systems	\$306,399.76	\$266,863.20
Trails	\$0.00	\$0.00
Traveler Information Systems	\$0.00	\$0.00
Tunnels	\$0.00	\$0.00
<b>TOTAL</b>	<b>\$7,059,828.28</b>	<b>\$5,678,037.42</b>

# MAJOR PROJECT FUNDING

## Major Project Funding

### PAY AS YOU GO SALES TAX

The summary below reflects all revenues and expenditures processed for the 2018 fiscal year as of January 2, 2019.

#### 2018 SUMMARY

REVENUE	EXPENDITURES	BALANCE
\$3,724,306.96	\$5,384,559.79	\$1,165,123

For a detailed accounting of the Pay As You Go account, please contact the Finance Department.

### IMPACT FEE

The summary below reflects all revenues and expenditures processed for the 2018 fiscal year as of January 2, 2019.

#### 2018 SUMMARY

REVENUE	EXPENDITURES	BALANCE
\$348,560.03	\$196,433.76	\$1,165,123

The majority of the 2018 expenditures were used to fund the construction of the College & Country Club roundabout. The balance of the impact fee account, in addition to 2019 revenue should be sufficient to complete another roundabout project in 2019/2020. A traffic study will be completed in early 2019 to determine the most beneficial location. An accurate accounting of major project fund revenue will be completed in the first quarter of 2019. For more information, please contact the Finance Department.

### STREET SALES TAX

The summary below reflects all revenues and expenditures processed for the 2018 fiscal year as of January 2, 2019.

#### 2018 SUMMARY

REVENUE	EXPENDITURES	BALANCE
\$3,192,871.16	\$62,665.00	\$3,130,203



# MAJOR PROJECT FUNDING

The Street Sales Tax began generating revenue in the summer of 2018. These funds will be used beginning in 2019 to fund the construction of Stanley Russ, Donaghey Avenue, Salem Road, and other large roadway projects.

## STORMWATER FUND

The summary below reflects all revenues and expenditures processed for the 2018 fiscal year as of December 31, 2018.

### 2018 SUMMARY

REVENUE	EXPENDITURES	BALANCE
\$0.00	\$4,441.02	\$48,572.10

The Stormwater fund, also known as the in-lieu detention fund, does not generally generate enough revenue for large projects. It was last used in 2016 to hire a consultant to research and write the necessary language for a stormwater utility.

## SIDEWALK FUND

The summary below reflects all revenues and expenditures processed for the 2018 fiscal year as of December 31, 2018.

### 2018 SUMMARY

REVENUE	EXPENDITURES	BALANCE
\$37,980.00	\$321.90	\$114,033.04

The sidewalk fund will be used in 2019 to partially fund the Tyler Street sidewalk project.

# CONSTRUCTION PROJECTS

## Construction Projects

### STREET CREW PROJECTS

- **Bean Street Improvements** – *S Center to S German* – Reconstruction of this roadway was completed and \$24,007.21 was spent in early 2018.
- **Bean Street Parking Lot** – *Conway Station Park* – Construction of this new parking lot was completed in early 2018. \$38,396.60 was spent in 2018.
- **Laurel Park Parking Lot** – *Robinson Ave* – *Expansion of this parking lot was completed in 2018.*
- **Zagster Bike Share Stations** – *UCA Student Center, Bear Village, Mashburn, Lewis, Thompson* – Street crews poured the concrete pads and prepped the installation of these five additional bike share stations which were added on UCA's campus in 2018.
- **Eve Lane Improvements** – *1 to 18* – The eastern side of this residential loop was improved and \$188,540.38 were spent in 2018.
- **College & Country Club** - *Mini Roundabout* – Conway's first mini roundabout was opened before the start of the 2018/2019 school session. \$215,806.63 was spent in 2018. Sidewalks will be added in 2019.
- **Tucker Creek Maintenance** – *Hogan to Railroad* – Undergrowth on both sides of Tucker Creek was mulched in 2018 to improve the hydraulics along the trail.
- **Railroad Creek Maintenance** – *Robins to Amtran* – Mulching of the undergrowth on both sides of Railroad Creek began in 2018 to improve downtown drainage. The project should be completed in early 2019.
- **Augusta Avenue Improvements** – *Robinson to Louvenia* – Improvement of this gravel road began in 2018 at a cost of \$30,086.33. Once completed in 2019, the road will be paved and will include sidewalks, curb & gutter.

### PRIVATE CONTRACTOR PROJECTS

- **Bruce Street/6th Street Improvements** – *Harkrider to Interstate 40* – A&B Dirt movers completed the improvement of 6<sup>th</sup> Street in 2017. \$795,384.70 was spent in 2018. Bruce Street improvements are scheduled to be completed in early 2019.
- **6<sup>th</sup> Street Overpass** – *I-40* – This new overpass was opened to traffic in 2017 but there were still some final cleanup items that remained last year. \$289,504.15 was spent in 2018.
- **College & Salem** – *Roundabout* – JCI Construction completed this this project in 2018 thanks to funding by Faulkner County.
- **Zagster Bike Share** – *Kinley Trail @ Prince Street* – An underperforming Zagster station was at Conway Station Park was moved to a better potential location by their in-house mechanic.
- **Pavement Marking Program** – *Ward 2* – A major pavement marking effort, including one quarter of the city, was completed by Arkansas Fence & Guardrail in 2018 at a cost of \$126,046.78.

# CONSTRUCTION PROJECTS

- **Dave Ward Drive Adaptive Signal Control System** – *Hogan to I-40* – The engineering plans for this Metroplan system optimization grant were completed in 2018. The bid was awarded to Desoto County Electric, and the construction should be completed in 2019. \$3,200.00 was spent in 2018.
- **Dave Ward Drive Pedestrian Overpass** – *Stone Dam Creek @ Dave Ward* – Manhattan Road and Bridge began construction on this project to connect Stone Dam Creek Trail across Dave Ward Drive in 2018. Construction will be completed in 2019. Funding for this project is provided by the Parks & Recreation Department.
- **Gatlin Park Pedestrian Bridge Replacement** – *Tucker Creek Trail @ North Parking Lot* – Graylee Construction ordered the replacement bridge in 2018. Construction will be completed in 2019.
- **Oak & East German** – *Traffic Signal* – Fureigh Electric was contracted in 2018 to replace the degrading wire in this aging signal. The project will be completed in early 2019.
- **Harkrider & Bruce** – *Traffic Signal* – All Service Electric began replacing the traffic signal at this location in 2018 to accommodate the improvements to Bruce Street. \$120,271.11 was spent in 2018. The improvements will be completed in early 2019.
- **Gold Creek Mulching** – *Oak to City Limit* – Derden Landscape was paid \$12,454.50 to mulch the undergrowth on both sides of Gold Creek in 2018 to improve local drainage.

# MAINTENANCE ACTIVITIES

## Maintenance Activities

### STREET AND DRAINAGE MAINTENANCE

In an effort to complete all the improvement projects assigned to Street Department work crews by the City Council in 2018, very few personnel and equipment were available for routine street maintenance. Only asphalt patching, mowing of street right of way and sweeping activities were performed on a daily basis. All other equipment and personnel were engaged full time on the designated street reconstruction projects listed in the previous section of this report.

Operating with a lean staff often creates situations wherein repair and maintenance needs cannot be addressed immediately. Typically, work requests are handled on a first come, first serve basis. However, some requests take priority over others due to severity. The duties and responsibilities of this department could easily justify several additional positions and additional equipment. However, it has been our practice to keep staffing levels to a minimum and reserve the maximum possible funding to address street reconstruction and street paving. Presently we have only the basic staff to address each of the key components of our responsibility, as listed in the remainder of this section.

### ASPHALT OVERLAYS

Asphalt overlay is an effective method of prolonging the life of a roadway. The preparation of streets for asphalt paving required milling of the existing pavement prior to the placement of new pavement. An annual asphalt milling and paving contract was secured with Rogers Group and Crow Paving, and the work was supervised by the Street Superintendent. A total of \$3,361,456.26 was spent on asphalt overlays in 2018. The following streets were milled and overlaid with asphalt:

- Favre Ln. – Salem to Donaghey
- N Donaghey Ave. – Washington to Tyler
- Cadron Gap Rd. – Friendship to Lakeview
- Lakeview Acres Rd. – Cadron to Wakefield
- Country Club Rd. – Prince to Dave Ward
- Stermer Rd. – Country Club to Salem
- Exchange Ave – Dave Ward to Bronnie
- Bruce & Farris – Roundabout
- Prince & Western – Roundabout
- S. Donaghey Ave. – Favre to Hilton
- Hilton Dr. – Donaghey to Pebble Beach
- Wasson Rd. – Stanley Russ to Mill Pond
- Lower Ridge Rd. – Azalea to city limit
- Siebenmorgen Rd. – ARDOT to E. German
- Museum Rd. – Siebenmorgan to Oak
- Bob Courtway Dr. – Little Creek to Oak
- E. German Ln. – Wills to Oak
- E. German Ln. – Middle to Dave Ward
- Amity Rd. – Halter to Lewis Ranch
- Chaucer Ln. – April to Prestonwood
- Galaria Cv. – Chaucer to end
- Prestonwood Rd. – Chaucer to Westin Park
- Westin Park Dr. – Prestonwood to Prince
- Santa Fe Trail – Raleigh to Denver
- Denver Dr. – Santa Fe to Rio Grande
- Rio Grande Rd. – Denver to Raleigh
- Chicot Dr. – Ashley to Cleburne
- Benton Cv. – Chicot to end
- Baxter Dr. – Cleburne to Royal
- Royal Dr. – Baxter to Ashley

# MAINTENANCE ACTIVITIES

- **Dallas Lp.** – *Baxter to Columbia*
- **Columbia Dr.** – *Tyler to Dallas*
- **St. Charles Dr.** – *Tyler to Haley*
- **Haley Ln.** – *St. Charles to end*
- **Buddy Cir.** – *St. Charles to end*
- **Josephine Cir.** – *St. Charles to end*
- **John Ed Cir.** – *St. Charles to end*
- **Hippo Dr.** – *Haley to Salem*
- **Brewer Lake** – *North Parking Lot*
- **Brewer Lake** – *South Parking Lot*
- **Vineyard Dr.** – *Chablis to Dogwood*
- **Chablis Dr.** – *Vineyard to Marlsgate*
- **Drury Ln.** – *Summerset to Londonderry*
- **Summerset Dr.** – *Salem to Steeple*
- **Kent Ln.** – *Drury to Steeple*
- **Londonderry Ln.** – *Drury to Steeple*
- **Rosanne Dr.** – *Brier Springs to end*
- **TJ Dr.** – *Clarence to Grummer*
- **Grummer Ln.** – *TJ to Clarence*
- **Gertrude Dr.** – *TJ to end*
- **Josita Cir.** – *Grummer to end*
- **Andy Dr.** *Grummer to north end*
- **Doodle Cir.** – *end to end*
- **Tony Cir.** – *Grummer to north end*
- **Raymond Dr.** – *Marie to Grummer*
- **Spatz Cir.** – *end to end*
- **Norbert Cir.** – *Grummer to end*
- **Arrow Smith Ln.** – *Knights to Crosspoint*
- **Archer Ln.** – *Knights to Crosspoint*
- **Bowman Ln.** – *Knights to Crosspoint*
- **Knights Dr.** – *Longbow to Bowman*

## ASPHALT REPAIR

A three-man asphalt patching crew worked full time, removing and replacing pavement failures and filling pot holes. In addition, considerable time was devoted to the repair of street cuts made by the Conway Corporation.

## GENERAL STREET RIGHT OF WAY MAINTENANCE

Street department personnel address maintenance issues within the street right of way on an as-needed basis as time allows. Common maintenance issues include tree trimming, repair of broken sidewalks and curbs, debris removal, and minor drainage issues.

Trees are trimmed by department personnel to ensure proper lines of sight with signs and other vehicles if possible. If a dead tree within the street right of way poses a safety risk, a contract is secured with a tree cutting service for removal.

## EMERGENCY RESPONSE

Utilizing three snow plows, two sand spreaders, and a motorgrader, the street department personnel responded to emergency call out duties when a winter weather event created hazardous driving conditions on City Streets. The snow plows were utilized to remove the snow and slush from arterials and collectors to speed the clearing of the material from the roadway. The spreaders distributed sand and salt on steep hills and major intersections to enhance traction and speed melting.

# MAINTENANCE ACTIVITIES

Street department personnel also respond when severe weather causes tree limbs or other debris to fall in the roadway. Generally, the debris is cut into manageable pieces using chainsaws, stacked on the side of the road, and retrieved the following day.

## TRAFFIC SIGNS AND PAVEMENT MARKINGS

The traffic division utilized sign making equipment to make and install street marker signs in new subdivisions and as well as replacement warning and regulatory signs as they are stolen, faded, or destroyed. A contract was secured by the street department with Arkansas Fence and Guardrail to refresh all pavement markings in ward 2. Pavement markings in other wards were placed or repainted as necessary by the traffic and pavement marking crew.

## MOWING STREET RIGHT OF WAY

While much of the street right of way within the city is maintained by adjacent landowners, there are still many miles of undeveloped land in town that must be mowed by the city in order to prevent accumulation and maintain adequate lines of sight. The majority of mowing performed by the street department is on open ditch roadways in rural or undeveloped areas. Two men operating bush hogs dedicated themselves full time to mowing these areas.

## STREET SWEEPING

For the majority of the year two street sweepers were operating full time. One sweeper was primarily dedicated to keeping bike lanes free of debris, while the other one focused on the rest of the city. Sweepers were run overtime from September until December to aid in the removal of accumulated leaves and grass from roadway gutters.

The department maintains two different types of street sweepers, a mechanical broom model, and a regenerative air model. The first excels at removing large debris, while the second cleans smaller and lighter debris with less mess. Ideally, these two sweepers would operate in tandem. However, they normally operate independently due to the size of our city. Increasing the department's fleet of sweepers would significantly increase the rate and efficiency of cleaning.

## DRAINAGE MAINTENANCE

Cleaning and repairing drainage ditches is essential to preventing blockages and upstream flooding problems. The most common request received from Conway's residents is for additional drainage maintenance. Unfortunately, there are several factors that prevent the department from adequately responding to these requests. First, personnel were only intermittently available for this type of maintenance when weather or other factors prevented them from working on construction projects. Additionally, much of this work is along narrow concrete or earthen channels between back yards, which significantly slows progress. Furthermore, many of the drainage ditches that require the most maintenance reside in drainage easements that are not part of the road right of way. As a result, maintenance of these

# MAINTENANCE ACTIVITIES

easements are not a legitimate street fund expense according to state law. An alternate funding source, such as a drainage utility, is desperately needed to provide the necessary personnel and equipment necessary to adequately maintain the city's drainage easements.

## Engineering Services

### PROJECT DESIGN & CONSTRUCTION ENGINEERING

Design and construction engineering for city street, drainage and sidewalk construction projects were provided for the following projects:

- **College & Salem – Roundabout** – Construction engineering was provided in 2018 for this partnering project with Faulkner County. Landscape Architecture services were provided by Crafton, Tull, & Associates.
- **Eve Lane Improvements – 1 to 18** – Engineering design, utility coordination, and construction engineering were provided for this project, which was designed and completed in 2018.
- **Chestnut & Van Ronkle Improvements – Oak to Markham** – Engineering design and multi-agency coordination were provided in 2018 for this roundabout and streetscape project set to begin in January 2019.
- **Augusta Avenue Improvements – Robinson to Louvenia** – Engineering design, utility coordination, and construction engineering all commenced for this project in 2018 which is set to be completed in early 2019.
- **College & Country Club Improvements – Mini Roundabout** – Engineering design, utility coordination, and construction engineering for Conway's first mini roundabout commenced in 2018. The project was completed before the first day of the 2018/2019 school session.
- **Tyler Street Sidewalk Installation – Gatlin Park to Washington** – Engineering design for this project began in 2018 and is currently about 30% complete. The project should be let for construction in mid to late 2019.
- **Laurel Park Parking Lot – Robinson** – Engineering design and construction engineering were provided for this parking lot expansion in 2018.
- **5<sup>th</sup> Avenue Splash Pad Parking Lot – Central Landing Boulevard** – Engineering design and multi-agency coordination began on this project in 2018 which is set to be completed in 2019.
- **Pavement Marking – Ward 2** – Detailed plans were prepared for many of the pavement marking projects undertaken in 2018.
- **Stanley Russ Road Improvements – Donaghey to Bill Bell** – Engineering design of this project began in 2018 and is currently about 10% complete.

### CONTRACT ADMINISTRATION & COORDINATION

Contract administration and agency coordination was provided to secure plans and specifications and/or construction engineering for the following projects:

- **Dave Ward Drive Pedestrian Bridge – I-40** – Contract administration and coordination was provided with Garver Engineers, Conway Corporation, and Metroplan for this project which broke ground in 2018.



# ENGINEERING SERVICES

- **Markham Street Improvements** – *Spruce to Van Ronkle* – Contract administration and coordination was provided with Garver Engineers, Conway Corporation, and Metroplan for the design of this project. Construction is scheduled to begin in 2019
- **Stone Dam Creek Trail** – *I-40* – Contract administration and coordination was provided with Halff & Associates in preparation for a grant application to extend the trail to S. German Ln.
- **Gold Creek Mulching** – *Oak to city limit* – Contract administration was provided with Derden Landscape for this project in 2018.
- **Salem Road Bridge** – *Tucker Creek* – Contract administration and coordination was initiated in 2018 with Fisher Arnold for this potential grant project.
- **Sugar Creek Acquisition** – *S. Donaghey* – Contract administration and coordination was provided with FTN in 2018 for this on-going federal grant flood buyout project.
- **Donaghey Avenue Improvements** – *Prince to Dave Ward* – Contract administration and coordination began in 2018 with Garver Engineers and Conway Corporation which will break ground in 2019 and be completed by 2022.
- **Dave Ward Drive Adaptive Signal Control System** – *Hogan to I-40* – Contract administration and coordination was provided in 2018 with Metroplan, Temple, Desoto County Electric, Metroplan, ARDOT, Neel-Schaffer, and Gresham Smith on this unique and complicated project.
- **Oak Street Adaptive Signal Control System** – *Harkrider to E. German* – Contract administration and coordination began in 2018 with Halff & Associates on this exciting Metroplan System Optimization grant project.

## DEVELOPMENT REVIEW SERVICES

Engineering services were provided to the planning department for the review of all preliminary plats, final plats, and development plans to ensure compliance with federal, state, and local requirements as well as sound engineering design. Design review was initiated for the following projects in 2018:

- |                                              |                                                  |
|----------------------------------------------|--------------------------------------------------|
| • <b>Freeman Medical Clinic</b>              | • <b>Keller Johnson New Facility</b>             |
| • <b>Covington Properties Parking</b>        | • <b>Discount Direct</b>                         |
| • <b>Tropical Smoothie</b>                   | • <b>Sleep Number</b>                            |
| • <b>Kroger Click List Parking</b>           | • <b>Adv. Interventional Pain Surgery Center</b> |
| • <b>Steak N Shake</b>                       | • <b>Fontaine Bleau Phase 1</b>                  |
| • <b>Integrity Insurance Office Building</b> | • <b>12 Hundred Place</b>                        |
| • <b>Lenderman Dental Clinic</b>             | • <b>Car Mart</b>                                |
| • <b>Haven House</b>                         | • <b>COHO Small Homes Community</b>              |
| • <b>Hendrix Creative Quad</b>               | • <b>Summit Church Addition</b>                  |
| • <b>Dave Ward Mini Storage</b>              | • <b>Denny's Restaurant</b>                      |
| • <b>Zion Temple Church</b>                  | • <b>Old Conway Village</b>                      |
| • <b>Verizon Wireless</b>                    | • <b>St. Joseph's Parking Lot</b>                |

# ENGINEERING SERVICES

- **Sonshine Academy Expansion**
- **Baker Retail Center**
- **Discount Tires**
- **Carwash USA**
- **Fellowship Bible Church Expansion**
- **Holiday Plaza Retail Center**
- **O'Reilly Autoparts Store**
- **Entergy Service Center**
- **Weatherstone Subdivision Ph2**
- **South Sterling PUD**
- **Cherry Hill Subdivision**
- **Salem Woods Ph2**
- **Carmichael Place Subdivision**
- **Winterbrook Subdivision Ph3**
- **Siebenmorgen Subdivision**
- **Mathews Meadows**
- **Salem Oaks Subdivision**
- **Edgewood Park Ph2**
- **Willow Oak Manor Ph2**
- **Charleston Place Subdivision**
- **Conrad Court**
- **Robynmar Subdivision**
- **Freyaldenhoven Subdivision**
- **Tyler Manor Subdivision**

Upon completion, all improvements were or will be inspected by the engineering department to ensure compliance with the approved plans and specifications. A total of 48 private developments were inspected for compliance in 2018.

## CONSTRUCTION INSPECTION

Construction management and quality control were provided by the Engineering Department for all street and drainage improvement projects constructed by the Street Department work crews in order to ensure compliance with plans and specifications. Services for onsite construction observation and inspection of all roadways constructed by private contractors were provided by a contract employee, Mike Jetton, P.E., to ensure that all required improvements were completed in accordance with plans and specifications as approved by the engineering department. This includes the inspection of all contracted projects listed in the "Construction Activities" section of this report as well as all roadway construction initiated by privately funded commercial and residential development. In addition, the engineering department computed project quantities and verified completion and accuracy of pay estimates for payments to contractors. Construction inspection was performed for the following projects in 2018:

- **Covington Commercial Phase I**
- **Covington Commercial Phase II**
- **Winterbrook Phase II**
- **Winterbrook Phase III**
- **Edgewood Phase II**
- **Salem Oaks**
- **Weatherstone Phase III**
- **Hank's Fine Furniture**
- **Charleston Place**
- **North View Estates**
- **Matthews Meadows**
- **Willow Oaks Manor**
- **Sterling PUD**
- **Cherry Hill**
- **Salem Woods Phase II**
- **Lollie Bottoms Bridge Replacement**
- **Campbell Cove**
- **College & Salem Roundabout**
- **Caney Creek Bridge**
- **Bruce/6th Street Improvements**
- **6<sup>th</sup> Street Overpass**
- **Lewis Ranch**

# ENGINEERING SERVICES

## STORM WATER POLLUTION PREVENTION

Engineering services as required by the Arkansas Department of Environmental Quality's NDPES Small MS4 General Permit No ARR040000 were provided by the engineering department. This permit authorizes the city to discharge storm water into approved receiving waters of the state. Requirements of this permit include:

- Annual Reporting
- Construction site inspection to monitor storm water runoff
- Maintain pollution prevention best practices for municipal operations

Storm Water Pollution Prevention Plans were developed and submitted to ADEQ for major construction projects within the City in compliance with this permit. In addition, assistance was provided to the Code Enforcement Department regarding properties that were in violation of this permit.

## FLOODPLAIN MANAGEMENT

The engineering staff provides Floodplain Management services as required by the city's Floodplain Development Ordinance and FEMA. These services included consideration of floodplain development permits and responding to public inquiries regarding information provided on floodplain maps. In addition, engineering staff monitors development in an effort to prevent unpermitted development within the floodplain.

## TRAFFIC SERVICES

Inspection and maintenance of the approximately 60 signalized intersections in Conway was provided by four full-time employees with oversight from the city engineer. This effort involves the repair or replacement of electrical components as required as well as routine updating of signal timing parameters. In addition, these employees provided routine maintenance of all signage and pavement marking within the city. A contract was secured and managed with Arkansas Line Marking to provide pavement marking of long sections of roadway, while short sections and intersections were marked by city crews.

## TRAFFIC CALMING

Upon receiving a completed resident application, traffic counting equipment was placed and reports were produced indicating traffic volume and speed at locations where traffic calming was being considered. At locations approved by the Traffic Engineer, contracts were secured for the installation of traffic calming structures, signage, or pavement marking. In 2018, the following traffic calming devices were installed:

- **Prince Street Crosswalk @ Tennis Complex** – *Rectangular Rapid Flash Beacons*
- **Siebenmorgen Crosswalk @ Simon Intermediate** – *Rectangular Rapid Flash Beacons*
- **E. German Crosswalk @ Simon Intermediate** – *Rectangular Rapid Flash Beacons*
- **E. German Crosswalk @ Florence Mattison Elementary** – *Rectangular Rapid Flash Beacons*

# ENGINEERING SERVICES

- **Washington Crosswalk @ Hendrix College** – *Rectangular Rapid Flash Beacons*
- **Irby Drive @ Amelia** – *Radar Speed Sensing Sign*
- **Irby Drive @ Penny** – *Radar Speed Sensing Sign*
- **Country Club Dr @ Lexington** – *School Zone Warning Beacon*
- **Favre Ln @ Sagegrass** – *School Zone Warning Beacon*
- **Various Locations** – *Speed Humps*

## AGENCY COORDINATION

Approximately 25 miles of state highways are located within Conway's city limits. As a result, coordination with the Arkansas Highway and Transportation Department are necessary regarding any updates to the state highway system. In addition, City Engineer represents the city on Metroplan's Technical Coordinating Committee. Coordination with Metroplan, Central Arkansas' metropolitan planning organization, is essential regarding any projects receiving federal funds. The following federally funded projects have required significant coordination with one or both of these agencies this year:

- **Dave Ward Drive Adaptive Signal Control System**
- **Oak Street Adaptive Signal Control System**
- **Dave Ward Drive Pedestrian Overpass**
- **Gatlin Park Pedestrian Bridge Replacement**
- **Oak & East German**
- **Harkrider & Bruce**
- **Highway 25 Accident Analysis**
- **Highway 64/65 Connector Study**
- **Highway 65B Traffic Study**
- **Markham Street Improvements**

## ALTERNATIVE TRANSPORTATION

Providing or encouraging alternate forms of transportation is an important goal for both the City of Conway and this department. To this end, the city engineer serves as an ex officio member on the Bicycle and Pedestrian Advisory Board, which serves to advise the city on ways to remain an official bicycle-friendly, become an official walk-friendly community, and seek to achieve the federal and state goals of the safe routes to school program.

# IMPROVEMENT PROGRAM UPDATE SUMMARY

## Improvement Program Update Summary

### STREET SALES TAX PROJECTS

- **Stanley Russ Road Improvements** – *Donaghey to Bill Bell* – Design began in 2018, construction to begin and be completed in 2019.
- **Donaghey Avenue Improvements** – *Prince to Dave Ward* – Design began in 2018, utility relocation to begin in 2019, roadway construction to begin in 2020.
- **Salem Road Improvements** – *College to Dave Ward* – Design to begin in 2019, phase one construction to begin in 2020.
- **Dave Ward Improvements** – *Harkrider to I-40* – ARDOT began a traffic Study in 2018. Pending ARDOT acceptance, design will hopefully begin in 2020 with construction to begin around 2022.
- **Harkrider Improvements** – *Oak to Bruce* – Pending ARDOT approval, design will hopefully begin in 2019 or 2020 with construction to begin in 2021 or 2022.

### STREET FUND PROJECTS

- **Chustnut & Van Ronkle** – *Mini Roundabout* – Construction is set to begin on January 7, 2019 and should be completed in less than one year.
- **Tyler Street Asphalt Rehabilitation** – *Sena to Washington* – Construction should be completed during the summer of 2019.
- **Markham Street Improvements** – *Van Ronkle to Mill* – Construction is scheduled to begin in early 2019 and should be completed in 2020.

### IMPACT FEE PROJECTS

- **Dave Ward Drive Adaptive Signal Control System** – *Hogan to I-40* – Construction began in 2018 and should be completed in 2019.
- **Oak Street Adaptive Signal Control System** – *Harkrider to E. German* – System Engineering should begin in early 2019.
- **Intersection Improvements** – *Location TBD* – Traffic studies began in late 2018 and will continue in 2019 to determine which intersections in Conway are in most need of improvement. Impact fee funds should allow for the construction of one roundabout in 2019/2020 and another in 2021/2022.

Intersections being considered include:

- |                               |                                    |
|-------------------------------|------------------------------------|
| • <b>College &amp; Farris</b> | • <b>Prince &amp; Country Club</b> |
| • <b>Tyler &amp; Salem</b>    | • <b>College &amp; Prince</b>      |
| • <b>Salem &amp; Irby</b>     | • <b>Prince &amp; Hogan</b>        |

# IMPROVEMENT PROGRAM UPDATE SUMMARY

## PAY AS YOU GO PROJECTS

- **Tyler Street Sidewalks** – *Library to Washington* – Design began in late 2018. Construction should begin in late 2019.
- **Bruce Street Improvements** – *Harkrider to 6th* – Construction should be completed in early 2019.
- **Bruce & Harkrider Traffic Signal** – *Intersection* – Construction should be completed in early 2019.
- **Morningside Drive Maintenance** – *Tucker Creek to Timberlane* – Concrete street preservation activities will begin in 2019; construction should be complete by early 2020.
- **Tucker Creek Road Maintenance** – *Salem to Tyler* – Concrete street preservation activities will begin in 2019; construction should be complete by early 2020.
- **Davis Street** – *Robins to Dave Ward* – Concrete street preservation activities will begin in 2019; construction should be complete by early 2020.
- **Old Conway Sidewalk Repair** – *Locations Specified in Section 5.3 of the City of Conway Pedestrian Master Plan* – Design is scheduled to begin in early 2019. Construction will hopefully begin by the end of 2019, with portions of the list being completed early the following year.
- **State Aid Overlay Project** – *Various Locations* – State Aid grant funding is anticipated to provide for the following asphalt overlays in either 2019 or 2020:
  - **Davis St** – *Hairston to Robins*
  - **College Avenue** – *Salem to Donaghey*
  - **6<sup>th</sup> Street** – *Harkrider to 1<sup>st</sup>*
- **Sugar Creek Acquisition** – *Donaghey* – Acquisition is set to begin in late 2019.
- **Old Scrapyard Detention/Park** – *Markham Street* – Grants were successfully secured in 2018. Design is set to begin in early 2019. Construction is expected to take place in 2020.
- **Oak Street** – *Railroad to Locust* – Design began in 2018 and will continue in 2019. Construction is expected of 2020/2021.
- **Parkway Street** – *Oak to Main* – Design began in 2018 and will continue in 2019. Construction is expected of 2020/2021.
- **Locust Street** – *Caldwell to College* – Design should begin in 2019. Construction funding should become available by 2021.
- **Nutters Chapel** – *Mattison to Pebble Beach* – Design should begin in 2020. Construction funding should become available in 2022.
- **Nutters Chapel** – *Mattison to Salem* – Design should begin in 2021. Construction is not fiscally constrained at this time.
- **Meadowlake** – *Donaghey to Washington* – Design should begin in 2020. Right of way acquisition should begin in 2021. Construction is not fiscally constrained at this time.

# CONTACT INFORMATION

## Contact Information

City of Conway  
Street & Engineering Department  
<http://www.cityofconway.org/pages/street-department>  
501-450-5165