

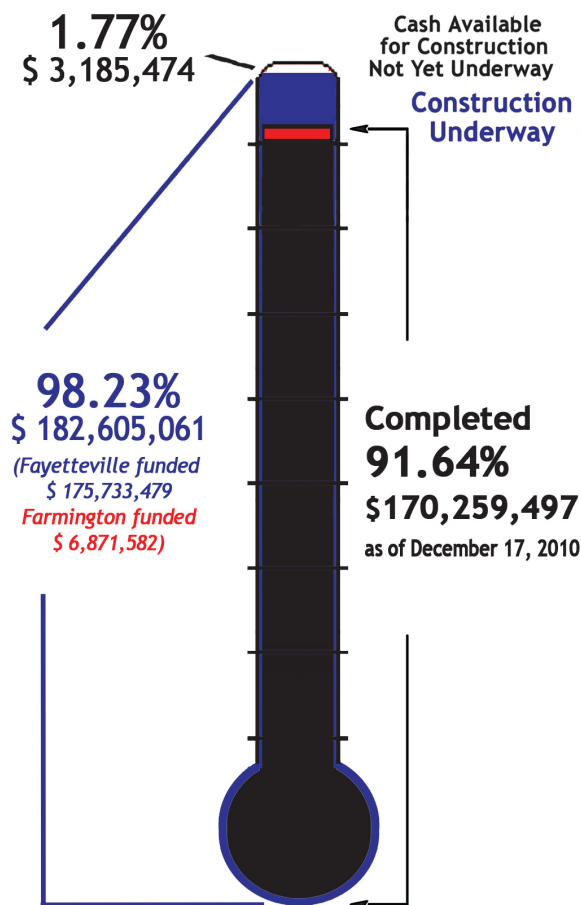
# Wastewater System Improvement Project (WSIP)

The Wastewater System Improvement Project (WSIP) is a system wide project that significantly increases the capacity of the City's wastewater system. This project addresses capacity short-falls in the wastewater collection and treatment systems; the design is expected to treat the wastewater for 115,000 people.

This project will increase the City's wastewater treatment capacity from 12.6 to 21.2 million gallons per day, and will reduce the number of sewer system overflows due to rain entering the system. It also improves odor control facilities system wide. The west side wastewater treatment plant started treating wastewater on May 29, 2008.

Major construction elements of the project include:

- (1) Constructing a new West Side Wastewater Treatment Plant (\$62.7 million including water lines, wetlands construction, and other work adjacent to the site).
- (2) Constructing 21.6 miles of new or replacement sewer transmission pipes and 2 pump stations in the north and west areas of the City to carry the wastewater to the new West Side WWTP (\$39.9 million).
- (3) Upgrading the existing Noland WWTP and a biosolids processing facility on the east side of town (\$25.0 million).
- (4) Constructing 9.3 miles of new or replacement sewer transmission pipes and replacing, modifying, or upgrading six pump stations in the south and east areas of the City to better carry the wastewater to the Noland WWTP (\$18.2 million).
- (5) The project also involves work including constructing 25.5 acres of wetlands, over one mile of roadway, ½ mile of water pipe, engineering design and construction inspection for all aspects of the project, easements for the pipelines, and all of the associated permitting and coordination with the Corps of Engineers, Arkansas Department of Equality, the Arkansas Natural Resources Commission, the Beaver Water District, various Oklahoma agencies, and contingency calculated (\$32.9 million).
- (6) A lift station and approximately four miles of associated pipe line work to service Farmington and the Fayetteville area immediately east of Farmington (Approx. \$5.0 million provided by Farmington and \$2.0 million provided by Fayetteville).



The project is funded through a combination of a \$42 million sales tax bond issue approved in September 2006, a \$125 million sales tax bond issue approved in November 2001, system revenues, developer impact fees, and the sale of land at the West Side WWTP site.

# City of Fayetteville ~ Major Capital Improvements

Progress Report as of December 17, 2010

## Wastewater System Improvement Project (WSIP)

- 1 **Hamestring Sewer Lift Station (WL-6)**
  - Construct a 36 mgd capacity sewer pump station
  - \$7,082,133 cost
  - Construction complete
- 2 **48" Gravity Sewer Line - Gregg to Hamestring (WL-4)**
  - Construct 28,627' of 30-48" sewer pipe line
  - \$10,970,165 cost
  - Construction complete
- 3 **Force Mains - Hamestring to West Plant (WL-5)**
  - Construct 21,740' of 24 and 30" sewer force pipe lines
  - \$4,752,287 cost
  - Construction complete
- 4 **Broyles Road Water Line (WP-1a)**
  - Construct 3,100' of 12" water Line
  - Cost included with West Side Wastewater Treatment Plant #5
  - Construction complete**Broyles Road (WP-1b)**
  - Construct 5,900' of two lane asphalt road
  - \$3,695,085 cost
  - Construction complete
- 5 **West Side Wastewater Treatment Plant (WP-3)**
  - Construct a new 10 million gallon per day (mgd) (average daily flow) wastewater treatment plant
  - \$61,068,511 cost
  - Construction complete
- 6 **Wetlands Mitigation (WP-2b)**
  - Construct and plant 25.5 acres of wetlands
  - Construction complete
- 7 **Owl Creek Basin Lift Station & Force Main (WL-8)**
  - Upgrade the existing sewer pump station
  - Work completed in-house
- 8 **Porter Road to Hamestring Sewer Line (WL-3)**
  - Construct 14,100' of 21-24" gravity sewer pipe line
  - \$7,186,957 cost
  - Construction complete
- 9 **North Street to Poplar to Van Asche Sewer Line (WL-2)**
  - Construct 13,900' - mostly 24-33" gravity sewer pipe line
  - \$4,433,820 cost
  - Construction complete
- 10 **Gregg Ave Sewer Lift Station (WL-7)**
  - Construct a 19 mgd capacity sewer pump station
  - \$1,527,000 cost
  - Construction complete
- 11 **Old Wire Road to Gregg Ave Sewer Line (WL-1)**
  - Construct 15,770' of 21-36" gravity sewer pipe line
  - Cost included with Porter to Hamestring - #8
  - Construction complete
- 12 **Noland (East Side) Wastewater Treatment Plant Renovation**

*Phase I (EP-2)*

  - Upgrade odor control, solids handling, headworks
  - \$14,836,631 cost
  - Construction complete
- Phase I (EP-4)*

  - Upgrade Effluent Aeration
  - \$66,460 cost
  - Construction complete
  - BlueinGreen Contractors

*Phase II (EP-1)*

  - Increase wet weather capacity
  - \$1,319,486 cost
  - Construction complete

*Phase III (EP-3)*

  - Remove effluent pump, upgrade aeration basin
  - \$2,532,065 cost
  - Construction complete
- 13 **Mally Wagon Sewer Lift Station & Force Main (EL-1)**
  - Replace sewer pump station, install 4,000' of 16" sewer force pipe line
  - \$1,398,358 cost
  - Construction complete
- 14 **Happy Hollow to Noland Wastewater Treatment Plant Sewer Line (EL-2)**
  - Construct 26,458' of 42" gravity sewer pipe line
  - \$10,677,024 cost
  - Construction complete
- 15 & 16 (combined projects)

**Razorback Rd to Happy Hollow Sewer Line (EL-3)**

  - Construct 13,489' of 21-30" gravity sewer pipe line

**South Mountain to Industrial Park Sewer Line (EL-5)**

  - Construct 4,084' of 10" gravity sewer pipe line
  - \$5,387,098 cost
  - Construction substantially complete
  - SJ Louis Construction
- 17 **Hwy 62 West Water Line**
  - Construction complete
- 18 **Sanitary Sewer Rehab**
  - Construction complete
- 19 **North College Water Line - Maple to North**
  - Construction complete
- 20 **24" Water Line Improvements**
  - Construction complete
- 21 **Razorback Road Water Line Relocation**
  - Construction complete
- 22 **Hwy 16 Water Line Relocate - Ruddle to Double Springs**
  - Construction complete
- 23 **Mount Sequoyah Water & Sewer**
  - Construct approximately 6,900' of water line and 600' of sewer line in the Mount Sequoyah area
  - \$997,629 cost
  - LaRue Contractor
  - Construction complete

# City of Fayetteville ~ Major Capital Improvements

Progress Report as of December 17, 2010

## Other Major Capital Improvements (non-WSIP)

- 25 36" Water Line Improvements (not shown on map)**
- Install pressure sustaining valves in transmission mains
  - \$1,151,780 cost
  - Construction complete
- 30 Manhole Rehabilitation (not shown on map)**
- Repair approximately 800 manholes
  - \$1,442,233 cost
  - Construction complete
- 31 Lift Station Upgrade (EL-4)**
- Upgrade Sewer Lift Stations 13, 14, & 16
  - \$441,032 cost
  - Construction complete
- 32 2008 Sanitary Sewer Evaluation Study**
- Evaluate 400 manholes, 175,000' of sewer mains
  - \$395,109 cost
  - Work complete
- 33 Township Street 36" Water Main**
- Construct 4,500' of 36" water line from Old Wire Rd to Hwy 265
  - \$1,783,720 cost
  - Construction complete
  - Seven Valley's Construction Co.
- 34 Township Water/Sewer Relocations**
- Construct approximately 2,675' of water & sewer line for street widening from Gregg to College
  - \$111,395 cost
  - Construction complete
- 35 Biosolids Management Facility - Phase 1**
- Construct 6 greenhouse type solar driers
  - \$4,963,386 cost
  - Dean Crowder Construction
  - Construction 27.6% complete
  - Estimated completion February, 2011
- Biosolids Management Facility - Phase 2**
- Construct thermal drier for biosolids
  - \$2,770,280 cost
  - Construction 8.31% complete
  - Crossland Heavy Contractors
  - Estimated completion September, 2011
- 36 2010 CIPP Maintenance Contract**
- 9,415' of 6" through 12" pipe
  - \$330,000 cost
  - Construction begins December
  - Insituform, Inc., Contractor
  - Estimated completion January, 2011
- 37 Broyles Rd Gravity Line (WL-13)**
- Construct 6,276' of 12" - 18" gravity line
  - \$800,523 cost
  - Construction substantially complete
  - Goodwin & Goodwin Contractors
- 38 Broyles Rd Force Main (WL-14)**
- Construct 8,190' of 12" force main
  - \$899,626 construction cost
  - Construction substantially complete
  - Redford Construction Contractors
- 39 Broyles Rd Lift Station (WL-15)**
- Construct a 1,500 gpm capacity sewer pump station
  - \$591,768 cost
  - Construction substantially complete
  - Seven Valley's Concrete
- 40 West Side Collection System Tieover to New Lines (WL-9) (not shown on map)**
- \$1,611,574 cost
  - Construction complete
- 41 Canterbury Water Storage Tank**
- Construct 500,000 gallon elevated storage tank
  - \$1,590,091 cost
  - Construction 60% complete
  - Chicago Bridge & Iron Contractor
  - Estimated completion June, 2011
- 42 Hwy 265 Utility Relocations**
- Relocate and upsize approx. 16,222' of 24" and 30" water main
  - \$5,200,000 estimated cost
  - Design is underway
  - Estimated bid date January, 2011

### West Fayetteville - Farmington WSIP Subprojects

- 26 Farmington Gravity Sewer Line (WL-10)**
- Contract 1**
- Construct 2,000' of 21" gravity line
  - \$ 335,967 cost
  - Construction complete
- Contract 2 (WL-10a)**
- Construct 12,322' of 12-24" gravity sewer line
  - \$1,750,122 cost
  - Construction substantially complete
- 27 Farmington Force Main (WL-11)**
- Construct 10,500' of 16" sewer force main
  - \$1,376,586 cost
  - Construction complete
- 28 Farmington Lift Station (WL-12)**
- Construct a 3.0 mgd capacity sewer pump station
  - \$1,845,653 cost
  - Construction complete
- 29 Farmington Sanitary Sewer Rehab**
- Unit 1**
- Construct 3,655' of sewer and 66 point repairs
  - \$782,507 cost
  - Construction complete
- Unit 2**
- Lining of 5,668' of 6" & 8" sewer pipe
  - \$175,885 cost
  - Construction complete

#### Notes:

- All completion dates are for substantial completion, that being the date on which the constructed work can be placed in service.
- Percentage completion is based on dollars earned as of the most recent pay request.

# Major Water & Wastewater Improvements Underway

## City of Fayetteville, Arkansas

- Ongoing Projects
- Construction Completed
- Current Construction Areas

