

# ENHANCING REGIONAL MOBILITY

Q4 Update FY2013



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## Regional Mobility Update

*This quarterly newsletter attempts to present in one place the plans and projects underway by the City of Arlington that impact the FY2013 City Council priority of Enhancing Regional Mobility. Each issue will feature information on both long-term issues and short-term projects.*



## ARLINGTON'S INTELLIGENT TRANSPORTATION SYSTEM

Arlington's Intelligent Transportation System is a network of components that work together 24/7 to keep traffic flowing optimally throughout the 99.5 square miles of the city every day.

### Traffic Coordination

338 of the city's 343 (99%) signalized intersections are connected by 200 miles of fiber optic cable to the Traffic Management Center (TMC) in the Ott Cribbs Police Station. Traffic Engineers and Signal Technicians determine how best to utilize the signals in real time.

- Groups of intersections are programmed with coordinated timing tailored to the time of day; for example, signals along Cooper are timed differently for morning rush hour, evening rush hour, and other times of day. Detailed plans specify the pattern each signal in the group should run.
- Other single intersections are programmed individually.
- Some intersections generally function by detecting vehicles, holding green on main streets until a car approaches on the side street.

### System Maintenance

The fiber connection to the TMC enables the Signal Technician who monitors the system to be able to check for malfunctions remotely. Citizens sometimes call about long waits at signals when actually the signal is in the midst of resetting to normal operation after an emergency vehicle has pre-empted it. The TMC Signal Technician can check this and save the Field Technicians the time that would have been spent driving to the signal. Because of the connection, the TMC Signal Technician is also instantly notified if a signal stops working, for example, when a contractor hits conduit or weather conditions affect signal operation. An LED map of the City connected to the software system at the TMC shows the current condition of all the signals, in color code.

## ARLINGTON'S INTELLIGENT TRANSPORTATION SYSTEM, CONTINUED

### Special Events

Traffic Monitoring Cameras also provide information for 120 locations throughout Arlington, streaming video to LCD monitors at the TMC capable of showing 32 locations simultaneously. These are especially useful during special events, not only to check for traffic gathering at a light but also to check barricade set ups compared to engineered specifications before the event. Tax-Free Weekend, Christmas shopping season, and the stadiums all have groups of signals pre-programmed and additional staff at the TMC monitoring their operation by camera and computer. "The goal is to help people get in and out as quickly and safely as possible," says City Traffic Engineer Paul Iwuchukwu. "We can detect traffic congestion and mitigate as soon as it occurs. We can adjust signal timing to keep traffic moving." During events, Traffic Engineering staff members each monitor a group of intersections and make changes as needed.



### Additions to the Network

City of Arlington ITS improvements currently underway include the addition of four more stationary Dynamic Message Signs. These signs are exactly like the four currently operated by Public Works and Transportation, located along Division and Collins Streets. The four new sign locations are: Randol Mill Road just east of Mesquite, Stadium Drive just north of Division, Ballpark Way just north of Convention Center, and Legends Way just south of Copeland Road. These signs will be interconnected to the City of Arlington TMC and will provide real time valuable information to the public. They were funded by federal grants through TxDOT.

### Regional Improvements

Regional ITS improvements are also in process, to link information among the TMCs for City of Arlington, TxDOT in Fort Worth and Dallas, and City of Grand Prairie. In the near future it will be possible for these entities to view real-time video feeds from each other's cameras by selecting the camera on a map. The enhancements will also make it possible for TxDOT to control Arlington traffic signal timing in the case of an emergency situation. Traffic incident data, such as construction lane closures and traffic accidents will also be updated, shared, and instantly displayed on a regional map. Funding was provided by NCTCOG and TxDOT. The plan is for all metroplex cities to be linked, to allow all the agencies to be more proactive in adjusting for changes in the roadway network as they occur.

### INTERESTING SITES

Traffic camera pictures that refresh every 5 minutes

<http://myarlingontx.com/up/traffic-webcams/>

Informal information on Public Meetings about Construction

<http://myarlingontx.com/category/government/public-works/>

Up-To-Date Street Closure List

<http://www.arlingontx.gov/Traffic/pdf/StreetClosure.pdf>

**TWEET!**



## APD Turns to Social Media to Improve Regional Mobility

Arlington Police Department is using social media to help motorists navigate area streets and highways during special events, major traffic accidents, and construction work. Facebook, Twitter and Nixle are the social media platforms of choice for the APD Office of Communication.

By following on Twitter, motorists are alerted to heavy traffic spots, ramp closures, and the quickest way to gain entry to an Entertainment venue. Instant messaging is especially helpful when baseball and football are

being played at the same time that Hurricane Harbor and Six Flags are open for family fun! Per Lt. Christopher Cook with the APD Office of Communication: "With more than 10,000 followers on Twitter alone, we can get our messages out and help people travel safely and avoid major traffic delays."

Tweeted information is far reaching. APD information posts are often re-tweeted by Twitter followers and picked up by the local news media.

**Follow APD on Twitter by going to @ArlingtonPD.**

# UPDATES

## CURRENT ARLINGTON STREET PROJECTS

This map and the "Updates" table on the next pages show projects that improve street condition, and which are either recently completed or will be under construction during 2013.

CURRENTLY UNDER CONSTRUCTION	Quarters are based on calendar year.											
	2013				2014				2015			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
* Street Improvements in conjunction with a Water/Sewer Renewal or Drainage Project												
Arbor Lane (Kent - Eden) Reconstruction												
Arbrook/Melear Drainage Reclamation (portion of streets only)												
Birch Street (McKinney - Woodland)*												
Bowman Springs Road (IH 20 - South City Limits) Reconstruction												
Britannia Gardens Subdivision Reclamation*												
Daniel Drive (Park Row - Lovers) Reconstruction												
Fairfield Subdivision Reclamation*												
Lackland Street (Park Row - Daniel) Reconstruction												
Lake Country Drive (Stonebrook - Dead end) Reclamation*												
Lamar Blvd (Collins - Ballpark Way) Reconstruction												
Lavender Lane (Weymouth Ct - Winewood) Reclamation*												
Lovers Lane (Collins - Wynn Terr) Reconstruction												
McKinney Street (Randol Mill - Sanford) Reclamation*												
Park Row Drive (SH 360 - East City Limits) Reconstruction												
Sanford Street (McKinney - Orange) Reclamation*												
S. Cooper/Mayfield Road Intersection - Adding Turn Lanes												
S. Cooper/Green Oaks Intersection - Adding Turn Lanes												
Stonebrook Drive (Lamar - Lake Country) Reclamation*												
Thousand Oaks Subdivision Reclamation*												
Valley View Drive (Collins - Mitchell) Reconstruction												
Weymouth Ct (Lavender - North dead end) Reclamation*												
Wright Street (McKinney - Forest) Recalvation*												

# UPDATES

Quarters are based on calendar year.												
2013 COMPLETED PROJECTS	2013				2014				2015			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
* Street Improvements in conjunction with a Water/Sewer Renewal or Drainage Project												
Arkansas Lane (Medlin - Davis) Microseal*	█	█	█									
Collins Street Quiet Zone at Railroad Crossing	█											
Collins/Road to Six Flags Intersection - Adding Turn Lanes		█	█	█								
Fleet Circle (Holiday - Cul-de-sac) Reconstruction		█	█	█								
Glynn Oaks Drive (Daniel - New York) Reconstruction	█	█	█	█								
Holiday Drive (Gilbert - Susan) Reconstruction	█	█	█	█								
Lovers Lane (Daniel - New York) Reconstruction		█	█	█								
Mitchell Street (Sherry - SH 360) Reconstruction	█	█	█									
Prestonwood Estates Reclamation*	█											
Rolling Meadows Subdivision, Phase 3 Reclamation*	█	█	█									
Skylark Drive (New York - Carter) Reconstruction	█	█	█									
Southmoor Subdivision Reconstruction	█	█	█	█								
<b>2013 STREET MAINTENANCE</b>												
No design or right-of-way are required for the annual street maintenance projects. Schedule is tentative and subject to change upon award of	2013											
█ Under Construction												
█ Completed												
Center Street (UTA Blvd - Robin Ln) Heater Repaver												█
Mountain View Subdivision Reclamation					█	█						
Matlock Manor Subdivision Reclamation					█	█	█					
Park Row Drive (Pecan - Center) Reclamation					█	█	█					
Road to Six Flags Drive (Ballpark Way - Six Flags Dr) Reclamation					█							
Six Flags Drive (Randol Mill - Copeland) Reclamation												█
Shorewood Drive (Bowman Springs - Blackberry) Reclamation						By Tarrant						
Shorewood Drive (Yachtclub - Perkins) Reclamation						By Tarrant						
<b>PROPOSED 2014 STREET MAINTENANCE</b>												
No design or right-of-way are required for the annual street maintenance projects. Schedule is tentative and subject to change upon award of	2014											
** Street Reclamation												
█ Proposed												
107th Street (Ave H - North City Limits)**												█
Cambric Estates**												█
Cedar Springs Terrace (Mitchell - Mitchell)**						█						
Country Green Subdivision**						█						
Meadow Oaks Village Subdivision**							█					
Mineral Springs Road (Cooper - Tempest)**								█				
Oldfield Village Subdivision**					█							
Oram Street (Center - Collins)**							█					
Park Row Drive (Center - Collins)**							█					
Treetop Subdivision**						█						
Wood Ridge Subdivision**							█					

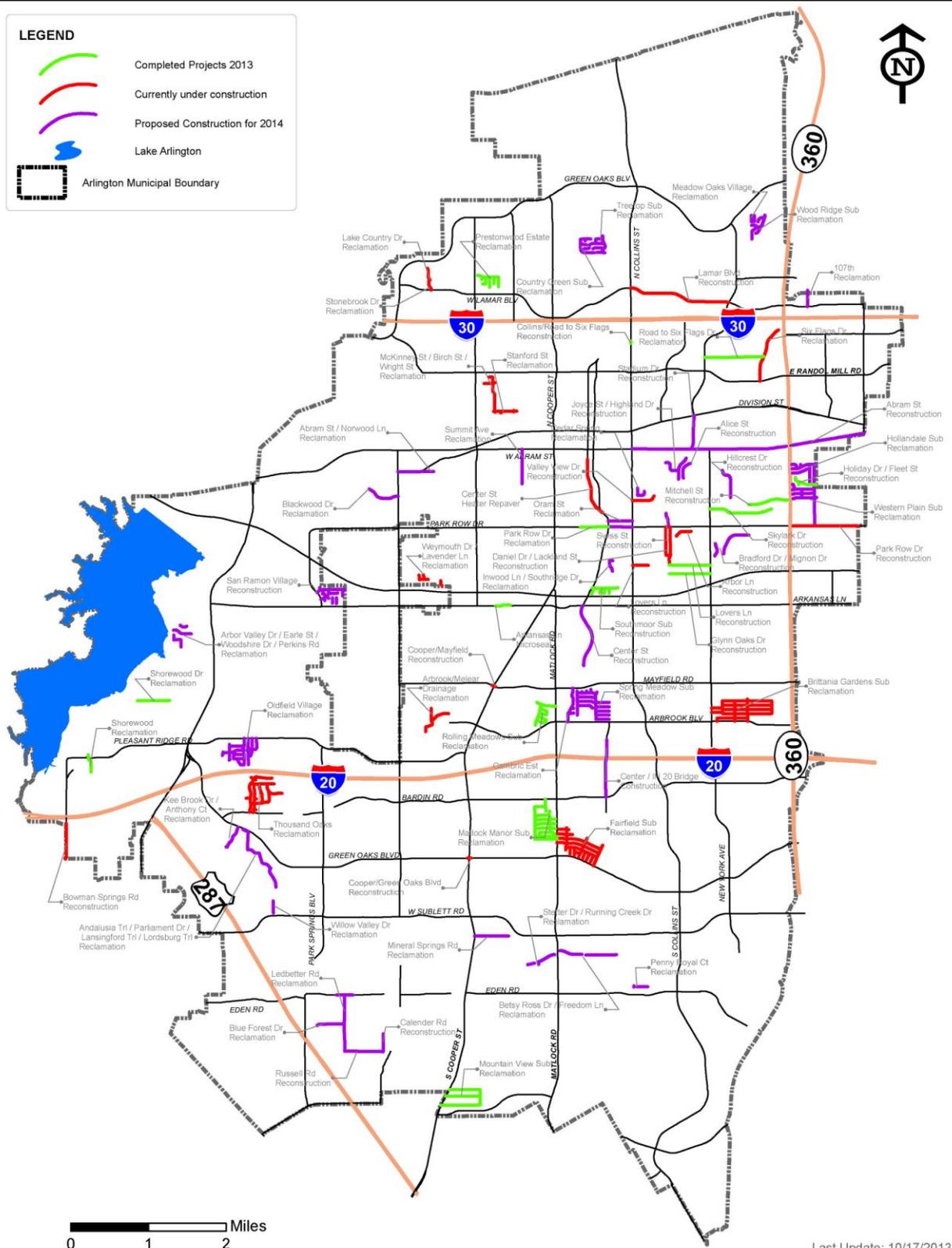
# UPDATES

Quarters are based on calendar year.												
PROPOSED 2014 CONSTRUCTION	2014				2015				2016			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Design Phase Right-of-way Phase Construction Phase (includes franchised utility relocation) * Street Improvements in conjunction with a Water/Sewer Renewal or Drainage Project												
Abram Street (Collins - SH 360) Reconstruction												
Abram Street (SH 360-City Limits) Reconstruction												
Abram Street (Bowen - Norwood Place) Reclamation*												
Alice Street (Browning - Sharon) Reconstruction												
Andalusia Trail (Parliament - Lansingford) Reclamation*												
Antony Court (Kee Brook - Andalusia) Reclamation*												
Arbor Valley Drive (Woodside - Perkins) Reclamation*												
Betsy Ross Drive (Cul-de-sac - Silo) Reclamation *												
Blackwood Drive (Bowen - Norwood) Reclamation*												
Bradford Drive (Sherry - Kent) Reconstruction												
Center Street (Arkansas - Timberview) Reconstruction												
Center/IH 20 Bridge (TxDOT Project) Construction												
Blue Forest Drive (Harris - Ledbetter) Reclamation												
Earle Street (Perkins - Gary) Reclamation*												
Freedom Lane (Liberty - Pilgrim) Reclamation*												
Highland Drive (Sharon - Ruth) Reconstruction												
Hillcrest Drive (Glenhaven - Brookshire) Reconstruction												
Hollandale Circle (SH 360 - Hardy Place) Reconstruction												
Hollandale East Subdivision Reclamation*												
Inwood Drive (Meadow - Southridge) Reclamation*												
Joyce Street (Meadowbrook - Highland) Reconstruction												
Kee Brook Drive (Green Oaks - Antony Ct) Reclamation*												
Lansingford Trail (Andalusia - Lordsburg) Reclamation*												
Lordsburg Trail (Lansingford - cul-de-sac) Reclamation*												
Mignon Drive (South dead end - Pavement Change) Reconstructu												
Norwood Ln (West end - 2030 Norwood Lane) Reclamation*												
Pamela Lane (SH 360 - Plaza) Reconstruction												
Parliament Drive (Green Oaks - Andalusia) Reclamation*												
Penny Royal Court (West dead end - East dead end) Reclamation*												
Perkins Road (Arbor Valley - 2606 Perkins) Reclamation*												
Running Creek Dr (Xavier - Alcott) Reclamation *												
San Ramon Village Reconstruction												
Southridge Drive (Inwood - Tucker) Reclamation*												
Spring Meadows Subdivision Reclamation*												
Stadium Drive (Division - Abram) Reconstruction												
Stetter Dr (6500 Setter Dr - Hyden) Reclamation*												
Summit Street (Abram - Fourth St) Reclamation*												
Swiss Street (Moore - Park Row) Reconstruction												
Tri- School Streets (Calender/Ledbetter/Russell Curry)												
Western Plain Subdivision Reclamation*												
Willow Valley Drive (North dead end - Willow Crest) Reclamation*												
Woodshire Drive (Arbor Valley - Gatewood) Reclamation*												
IN THE WORKS	2014				2015				2016			
Design Phase Right-of-way Phase Construction Phase (includes franchised utility relocation) * Street Improvements in conjunction with a Water/Sewer Renewal or  Gap between phases is due to availability of funding, which is contingent upon approval of future Capital Budget and Bond Sale.												
2014 Residential Rebuilds												
Abram Street (Cooper - Collins) Reconstruction												
Great Southwest Parkway (Avenue E - Abram) Reconstruction												
New York Ave (Park Row - Arkansas) Reconstruction												

# HIGHLIGHTS

## LEGEND

-  Completed Projects 2013
-  Currently under construction
-  Proposed Construction for 2014
-  Lake Arlington
-  Arlington Municipal Boundary



0 1 2 Miles

Last Update: 10/17/2013