

DALLAS DISTRICT

PROGRESS

Monthly Report on Dallas District Projects and Topics

COLLIN CO. | DALLAS CO. | DENTON CO. | ELLIS CO. | KAUFMAN CO. | NAVARRO CO. | ROCKWALL CO.

MAJOR HIGHWAY IMPROVEMENTS UNDER WAY IN COLLIN COUNTY

COLLIN COUNTY — The population here continues to grow by leaps and bounds, presenting new challenges for transportation officials tasked with keeping up with the boom.



Collin County accounted for the highest population growth (26 percent) in all of North Texas for 2013-2014, according to findings from the North Central Texas Council of Governments.

As of the 2010 census, the county had a population of nearly 800,000, which was a 61-percent increase from just a decade earlier.

No one reading this story will be surprised by the enormous need for the large amounts of new highway construction happening in Collin County. Such a steady and rapid climb in population means more commerce, more development and — perhaps most importantly for transportation leaders — more vehicles on the road.

Nearly every major roadway in Collin County is undergoing some kind of improvement project in an effort to keep pace with the tremendous growth to the suburbs.

The most significant north-south corridor being reconstructed is US 75:

- 1 From Spring Creek Parkway to Sam Rayburn Tollway, the project to widen the six lane freeway to eight lanes and improve the frontage roads and ramps is 27-percent complete and is expected to be complete by January 2017.
- 2 From Spur 399 (SH 121 south) to US 380, the project to widen the freeway and frontage roads is 68-percent complete, with an estimated completion date of July 2015.
- 3 From south of Bloomdale Road to County Road 275 (Telephone Road), the project to widen



SOURCE: Texas Department of Transportation.

TxDOT photo archive

Looking north near McKinney, Texas: US 75 expansion construction is in full gear.

the freeway from four to eight lanes with three-lane frontage roads is 84-percent complete, with an estimated completion date of July 2015.

- 4 From Telephone Road to north of Melissa Road, the project to widen the highway from four to six lanes with two-lane frontage roads is 50-percent complete, with an estimated completion date of October 2016.

Three more funded projects and one currently unfunded project would take the US 75 highway improvements all the way to the Grayson county line:

- 1 From PGBT to Park Boulevard, a project is scheduled that would widen the direct connector ramp from PGBT to northbound US 75 and southbound US 75 to PGBT; widen DART rail road and Plano Parkway underpasses; build an auxiliary lane northbound to the Park exit ramp. Cost: \$37 million. Est. letting: May 2015.
- 2 From north of Melissa Road to south of FM 455, a project to widen the highway from four to six lanes with two-lane frontage roads has an

estimated cost of \$55 million and is scheduled for letting in December 2015.

- 3 A new interchange at FM 455 in Anna has an estimated cost of \$24 million and an expected letting of December 2015.
- 4 From FM 455 to County Road 375, a project to reconstruct the highway and widen it from four to six lanes with two-lane frontage roads has an estimated cost of \$65 million and an estimated letting to be determined (unfunded).

Combined construction and maintenance expenditures topped \$204 million for FY '14. Construction expenditures alone topped \$175 million with 729,624 vehicles registered. And 80 percent of construction projects in FY '14 were completed on time.

Analysts hardly expect the population boom to slow down any time soon, and transportation officials hope these current projects are paving the way to a future free of growing pains for North Texas. ■

FEBRUARY 2015 LET PROJECTS

CSJ NUMBER	HWY	LIMITS	TYPE OF WORK	EST. (M)	BID (M)	(%)	EST. TOTAL COSTS (M) ***	CONTRACTOR	
0009-02-045	SH 78	Garland Rd.: S of Tranquilla to SP 244 (Northwest Hwy.)	9 Intersection improvements and utility adjustment	\$6.98	\$7.78	11.39	\$9.45	Lone Star Civil Construction, Inc.	1
0312-02-016	FM 51	At Blocker Creek and Relief	Replace bridge and approaches	\$2.40	\$2.58	7.46	\$2.96	Iowa Bridge & Culvert, LC	2
0353-02-063	SH 114	At FM 156	Construct interchange	\$29.71	\$30.58	2.94	\$42.13	Ed Bell Constr.Co.	3
1015-01-022	FM 3549	SH 66 to FM 552	Rehabilitate existing roadway	\$2.96	\$2.58	-13.11	\$2.95	D. L. Lennon Inc.	4
1051-02-017	FM 876	FM 876 at Big Onion Creek to FM 308 at draw	Replace bridge and approaches	\$1.74	\$1.72	-0.84	\$2.29	Massana Construction Inc.	5
1092-01-017	FM 741	US 175 to east of FM 548	Pavement surface and overlay	\$6.27	\$4.55	-27.43	\$5.20	APAC-Texas, Inc	6
1950-01-036	FM 407	FM 407: Briarhill to I-35E; FM 2281: Hebron Pkwy. to SH 121	Full-depth pavement repair	\$1.74	\$1.06	-39.00	\$1.22	O. Trevino Construction, LLC	7
2374-01-176	I-635	West of I-30 to west of US 75	Convert HOV lanes to express lanes	\$7.88	\$6.76	-14.14	\$8.00	Austin Bridge & Road, LP	8
0048-01-061*	SH 342	Various locations in Dallas Co.	Rehabilitation of traffic signals	\$0.78	\$0.84	7.40	\$1.09	Hwy. Intelligent Traffic Solutions, Inc.	
FEBRUARY 2015 TOTAL				\$60.47	\$58.45	-3.33	\$75.29		
DISTRICT FY ACCUMULATIVE LETTINGS				\$868.83	\$1,012.5	16.54			
DALLAS DISTRICT LETTING CAP				\$1,046.87**					

*Unmapped.

**District FY 2015 Letting Vol. Cap includes the following:
1) The SH 183 Managed Lanes project for \$513 million.

***Est. Total Proj. Costs includes estimated PE, ROW, E&C, Indirect Costs and Potential Change Order Costs at the time of bid.

MARCH 2015 PROJECTED LETTING PROJECTS (SUBJECT TO CHANGE)

CSJ NUMBER	HWY	LIMITS	TYPE OF WORK	EST. (M)	
0009-02-063	SH 78	SH 78: Shadyside Ln to SL 12; SH 352: Carmack to Pioneer	Overlay and Pavement Markings	\$2.82	1
0197-04-078	US 175	Three locations in Kaufman County	Landscape Development	\$0.31	2
0581-02-141	SL 12	SL 12: Illinois to N of Singleton; FM 1382: Victoria to E Skyline	Full Depth Repair Concrete Pavement and Overlay	\$3.15	3
1051-01-042	FM 664	From north of US 287 to south of Red Oak Creek in Ovilla	Add 3-Foot Paved Shoulders	\$9.82	4
1451-01-023	FM 55	0.14 miles south of Nash Howard Rd to US 77	Provide Additional Paved Surface Width	\$4.97	5
2679-03-010	FM 2514	West of FM 1378 to east of Lavon Pkwy.	Realign and Widen Highway	\$5.75	6
0918-47-100*	VA	Various locations on State Highways in Dallas County	Construct Curb Ramps	\$3.29	
TOTAL				\$30.10	

*Unmapped.

COMPLETED CONSTRUCTION PROJECTS (FROM FEBRUARY 1 – 28, 2015)

CSJ NUMBER	HWY	LIMITS	TYPE OF WORK	DATE COMPLETED	COST (M)	
0009-11-230	I-30	Haskell Ave. to SH 78	Concrete Full Depth Repair	2/18/2015	\$0.64	1
0095-13-025	I-20	I-635 to Seagoville Rd.	Connecting I-20 with Kleberg Blvd.	2/10/2015	\$4.97	2
0581-02-139	SL 12	Cockrell Hill Rd. to Anderson St.	Bridge Deck Repair	2/9/2015	\$0.25	3
0092-06-100	I-45	Freestone County Line to Ellis County Line	Install Guide Signs	2/12/2015	\$0.23	4
TOTAL					\$6.09	

SOURCE: Texas Department of Transportation.

TxDOT graphic

DALLAS DISTRICT PROJECTS MAP

Colored and numbered boxes correspond with the charts on page 2 and show projects that have let in February, are projected to let in March or have recently been completed.



A.
(INFORMATION FOR EACH COUNTY IS IN THE BLUE SIDEBAR AT RIGHT)

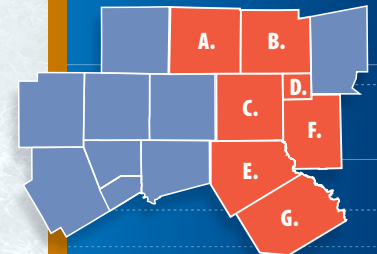
C.

E.

LEGEND

- LET
- PROJECTED
- COMPLETED
- - - PLANNED
- TOLL ROAD
- - - TOLL ROAD UNDER CONSTRUCTION
- INTERSTATE HWY
- U.S. HWY
- STATE HWY

SOURCE: TxDOT research.
*POPULATION ESTIMATE: NCTCOG.



DALLAS DISTRICT TOTALS

VEHICLE REGISTRATION | 3,591,178
*POPULATION ESTIMATE | 4,259,090
LANE MILES | 10,847.34

A. | DENTON COUNTY
VEHICLE REGISTRATION: 559,501
*POPULATION ESTIMATE: 683,010
LANE MILES: 1,597.47

B. | COLLIN COUNTY
VEHICLE REGISTRATION: 680,383
*POPULATION ESTIMATE: 804,390
LANE MILES: 1,563.69

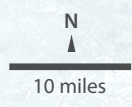
C. | DALLAS COUNTY
VEHICLE REGISTRATION: 1,952,662
*POPULATION ESTIMATE: 2,385,990
LANE MILES: 3,440.13

D. | ROCKWALL COUNTY
VEHICLE REGISTRATION: 79,075
*POPULATION ESTIMATE: 80,270
LANE MILES: 346.35

E. | ELLIS COUNTY
VEHICLE REGISTRATION: 165,360
*POPULATION ESTIMATE: 152,580
LANE MILES: 1,516.77

F. | KAUFMAN COUNTY
VEHICLE REGISTRATION: 103,929
*POPULATION ESTIMATE: 104,600
LANE MILES: 1,191.95

G. | NAVARRO COUNTY
VEHICLE REGISTRATION: 50,268
*POPULATION ESTIMATE: 48,250
LANE MILES: 1,190.98



TxDOT PREPARED FOR WINTER WEATHER



DALLAS — TxDOT has spent the past few months gearing up for the upcoming winter weather season, updating response plans and restocking inventory.

In addition, TxDOT has contracted with a joint venture between Amey Consultants and Webber Construction to increase its

maintenance resources in Dallas County, including during winter weather events. The performance-based contract means Amey-Webber is responsible for treating interstates in Dallas County, including I-30, I-20, I-635, I-45 and I-35, along with the Dallas County portion of US 75.

TxDOT will now be able to refocus its resources elsewhere in the district. This season, TxDOT will again have more than

185 pieces of equipment and nearly 350 employees readily available to immediately start working around the clock as soon as winter weather threatens North Texas.

What's more, the Dallas District has 14 snow plow blade attachments and three new brine makers at its disposal. Brine is a liquid, salt-based anti-icer used to pre-treat roads just before temperatures drop below freezing. ★

AFTER SNOW/ICE EVENT

- Stockpiles/supplies are replenished (multi-day storm)
- Roadways are swept/cleaned of excess aggregate
- Winter plan effectiveness is evaluated and adjusted
- Roadway repairs are scheduled (Potholes, guardrails, structures, etc.)
- Equipment is serviced and prepared for the next winter storm

WHAT MATERIALS ARE USE ON THE ROADS?



Before an ice/Snow Event

- Liquid salt-based anti-icers help prevent ice formation



During an ice/Snow Event

- Various salt-based granular de-icers are used to help melt ice already formed on the road

HOW DO THE CHEMICALS WORK?

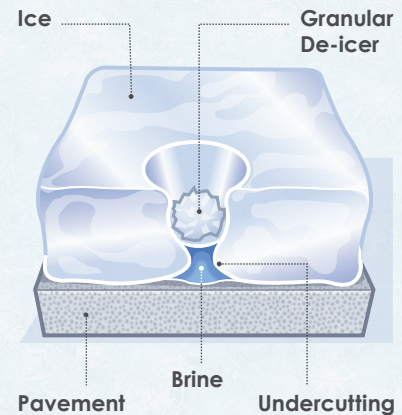
Granular De-Icer

A granular de-icer – salt for instance – lowers the freezing point of water from 32 °F to about 15 °F (depending on how much you use).

When salt makes contact with ice – melting begins immediately and spreads out from that point, creating a salt/water mix (brine) that continues melting the ice, undercutting the bond between the ice and the road.

Melting Ice Takes Time

The temperature and the amount of ice or snow on the road determine de-icing material amounts and melting rates. As temperatures drop, the amount of de-icer needed to melt a given quantity of ice increases significantly.



SOURCE: www.usroads.com

TxDOT graphic



From Mr. B. Ade of Carrollton, Texas:

"Thanks for having the striping done on SH 121! Much improved and looking towards completion. I know you are aware that the high banks at SH 121 x SH 114 have been out for three weeks. Hope that gets done soon, too."

SOURCE: Texas Department of Transportation

From Ms. Wesbrook of Frisco, Texas:

"I just want to say 'kudos' and good job to your crew... You all did an excellent job on the roads in this snow!"



TxDOT graphic

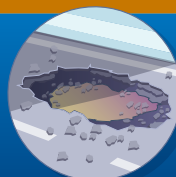
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TEXAS DEPARTMENT OF
TRANSPORTATION
4777 E. Highway 80
Mesquite, TX
75150-6643

FOR MORE INFORMATION:

214-320-4480
dalinfo@txdot.gov
www.txdot.gov



REPORT A POTHOLE:

Visit www.txdot.gov/contact-us/formhtml?form=Report_a_Pothole or call 800.452.9292. Progress report can be downloaded at <http://www.txdot.gov/inside-txdot/district/dallas/progress.html>