

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.

A WINTER RESCUE

EMPLOYEES HONORED FOR HEROIC RESCUE FROM FREEZING CREEK

DALLAS — It was sometime just after midnight on Dec. 6, 2013. The temperature was in the 20s and falling fast. TxDOT employees were scattered throughout the District frantically preparing roads for the brutal night ahead. In a few short hours, North Texas would be firmly in the clutches of a bone-chilling Polar vortex.



TxDOT would spend the next 12 hours helping its roads and bridges survive the night without freezing over. But submerge a human body in an icy creek and survival becomes a matter a minutes.

Frank Jett, James Adams and Josh Cornelison, all members of TxDOT's heavy equipment crew, were working at a stockpile location near downtown Dallas, near the Lamar Street overpass. The three men were refilling TxDOT trucks with sand and salt material to treat roadways through the night.

The temperature was in the mid-20s with wind gusts of more than 30 mph. Jett was operating the loader around 2 a.m. when he noticed a man desperately splashing his way out from a frosty creek. The three men rushed to meet the man on the creek bank, but the arctic blast was so violent that by the time they could reach him, hypothermia was already beginning to set in.

The man was homeless and had been gathering fire wood near the creek when he fell in. He made it out of the freezing water, but his body temperature was beginning to plummet. Jett, Adams and Cornelison now found themselves in a race against time.

Icy roads meant help would not arrive as quickly as they had hoped. So the three TxDOT employees used t-shirts and whatever else they could find to help dry the man. They wrapped him in a TxDOT rain slicker and heated the cab of a pickup truck



From left: TxDOT Deputy Executive Director John Barton, Frank Jett, Josh Cornelison, James Adams and retired Lt. Gen. Joe Weber, USMC, TxDOT executive director.

TxDOT photo archive

while they helped him remove his soggy shoes and some of his wet clothing. They kept him awake by talking to him until help arrived.

Because of the quick thinking of these three heavy equipment operators, the homeless man spent the night in a warm hospital bed and eventually made a full recovery. And earlier this month Jett, Adams and Cornelison received the TxDOT Extra Mile award for their heroic actions on that night.

"The Dallas District is extremely proud of these three men," said Metro District Engineer Bill Hale.

"Without their willingness to risk their own safety to immediately help someone who was in serious danger, this man likely would not have survived the night."

A few days later, Jett, Adams and Cornelison were back at work treating roads ahead of yet another winter blast, when suddenly the homeless man showed up. In a tearful reunion, the man repeatedly thanked the crew. He expressed his deep gratitude and told the TxDOT employees that without their heroic efforts, his death on that bitter winter night would have been certain. ■

NOVEMBER | 2014

■ LET |
 ■ PROJECTED |
 ■ COMPLETED

SH: STATE HWY. |
 FM: FARM TO MARKET |
 CR: COUNTY RD. |
 CS: CITY ST. |
 SL: STATE LOOP |
 SP: SPUR |
 BUS: BUSINESS |
 VA: VARIOUS LOCATIONS

OCTOBER 2014 LET PROJECTS

CSJ NUMBER	HWY	LIMITS	TYPE OF WORK	EST. (M)	BID (M)	(%)	EST. TOTAL COSTS (M) ***	CONTRACTOR	
0581-01-140	SL 12	I-30 to Ferguson Rd.	Landscape development	\$0.29	\$0.27	-5.70	\$0.34	Grey Construction	1
2056-01-048	FM 2551	FM 544 to FM 2514 (Parker Road)	Landscape development	\$0.38	\$0.37	-2.87	\$0.43	Landscape Contracting and Irrigation, Inc..	2
OCTOBER 2014 TOTAL				\$0.67	\$0.64	-4.07	\$0.77		
DISTRICT FY ACCUMULATIVE LETTINGS				\$186.95	\$188.76	0.97			
DALLAS DISTRICT LETTING CAP				\$1,046.87**					

**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.

NOVEMBER 2014 PROJECTED LETTING PROJECTS (SUBJECT TO CHANGE)

CSJ NUMBER	HWY	LIMITS	TYPE OF WORK	EST. (M)	
0009-12-209	I-30	1/2 mile west of Horizon Rd. to 1/4 mile west of SH 205 in Rockwall	Installaton of safety lighting	\$0.21	1
0081-13-051	I-35W	I-35W and I-35 from Tarrant Co. to Cooke County	Install guide signs	\$0.36	2
0135-11-018	US 380	West of CR 26 to CR 73 (Lovers Lane)	Reconstruct highway as six-lane div. w/grade separation	\$57.10	3
2588-01-015	FM 548	US 80 to FM 1641	Landscape development	\$0.22	4
TOTAL				\$57.89	

COMPLETED CONSTRUCTION PROJECTS (FROM OCTOBER 1 – 31, 2014)

CSJ NUMBER	HWY	LIMITS	TYPE OF WORK	DATE COMPLETED	COST (M)	
2374-04-072	I-20	Tarrant Co. Line to East of Carrier Parkway	Full Depth Repair, Mill and Inlay Main lanes	10/17/14	\$3.00	1
0260-02-038	US 67	At Railport Parkway / Miller Road	Construct Grade – Separated Interchange	10/30/14	\$8.81	2
0918-18-123	CR	Various locations in Navarro Co.	Replace 4 Off – System Bridges	10/24/14	\$1.42	3
0451-01-047*	SH 205	At Berry Creek	Replace Bridges	10/17/14	\$1.97	
TOTAL					\$15.20	

*Unmapped.

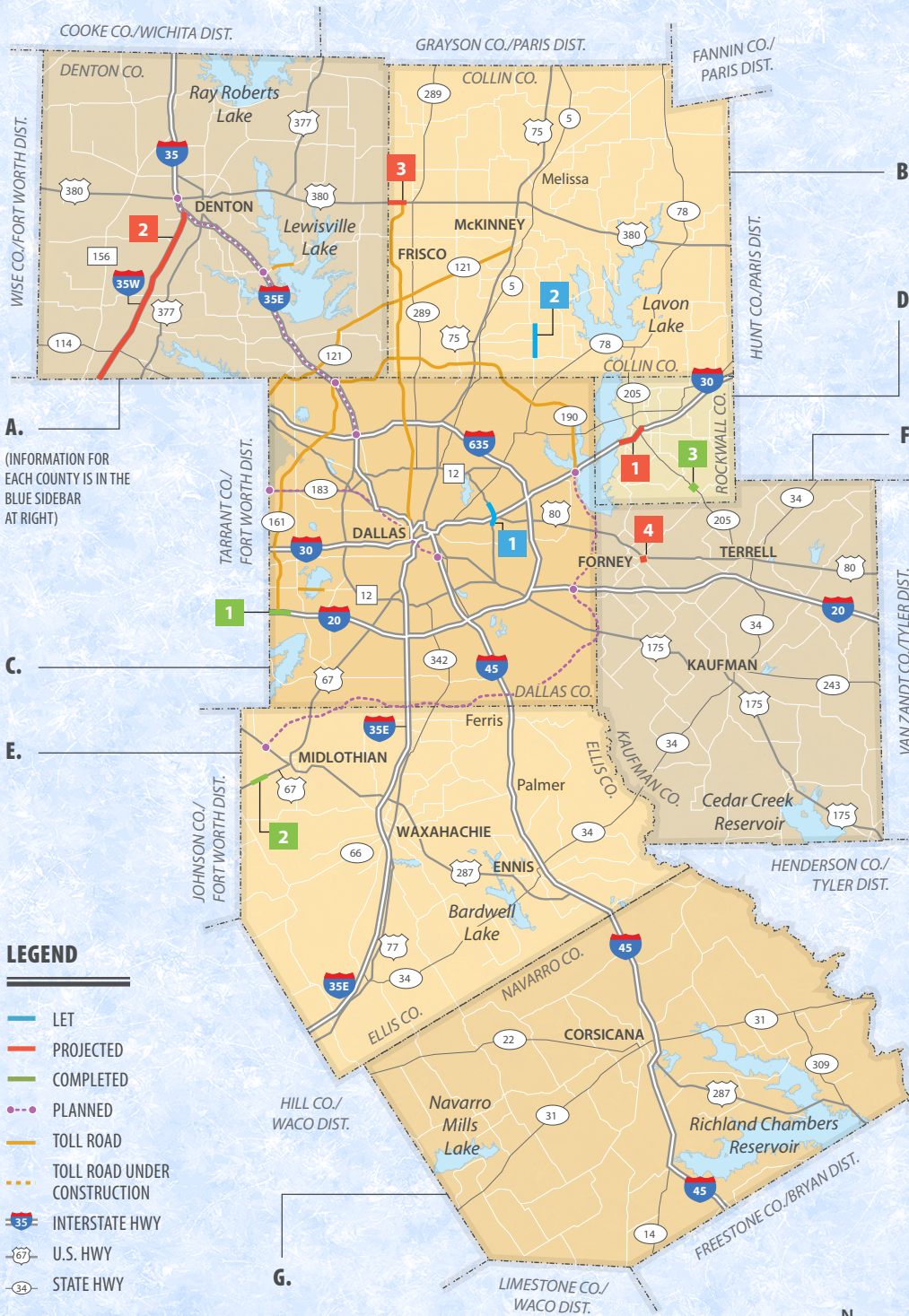
SOURCE: Texas Department of Transportation.



TxDOT graphic

DALLAS DISTRICT PROJECTS MAP

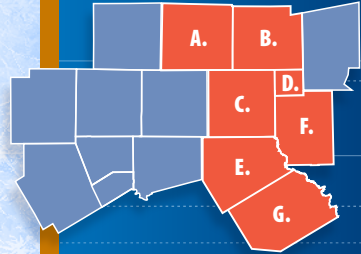
Colored and numbered boxes correspond with the charts on page 2 and show projects that have let in October, are projected to let in November or have recently been completed.



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

- 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

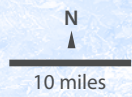
VEHICLE REGISTRATION: 165,360
*POPULATION ESTIMATE: 152,580
LANE MILES: 1,516.77

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 pretreat roads just before temperatures drop below freezing. ■

AFTER SNOW/ICE EVENT

- Stockpiles and supplies are replenished (multi-day storm)
- Roadways are swept and 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?

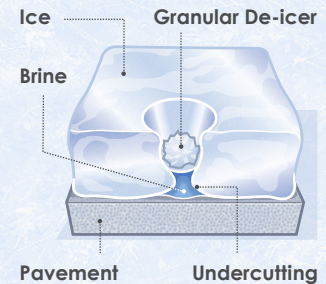
Granular De-Icer

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

2014 Short Course Award Winners

Congratulations to Randy Redmond, an engineer in the Dallas District, on winning the 2014 Dewitt C. Greer Award, one of the highest honors awarded to a TxDOT engineer each year.

In addition, Tracy Friggle Logan, former director of construction for TxDOT's Dallas District, became the 2014 recipient of the Gibb

Gilchrist Award, which recognizes and encourages the skill, dedication, civic mindedness, innovation, and performance excellence of department engineers in the field of engineering.

Redmond and Logan both were honored in October during TxDOT's annual Short Course conference held in Austin. ■



Mr. G. Theis of Roanoke, Texas:

"I want to complement you on the good design at the intersection of Cleveland Gibbs and Litsey Rds near Roanoke. The roundabout is wonderful and the entire project was well designed."

SOURCE: Texas Department of Transportation

TxDOT graphic

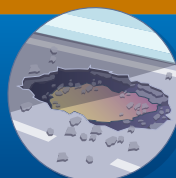
DALLAS DISTRICT | PROGRESS



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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>