



NORTH TEXAS TOLLWAY AUTHORITY

5900 West Plano Parkway | Plano, Texas 75093 | (214) 461-2000 | Fax (214) 528-4826 | www.ntta.org

November 8, 2017

Regional Transportation Council
Attn: Transportation Staff Director
North Central Texas Council of Governments
616 Six Flags Drive
Arlington, Texas 76011

Dear Michael,

I am pleased to inform the Regional Transportation Council (RTC) that on November 1, 2017, the North Texas Tollway Authority (NTTA) completed a \$2.5 billion bond refinancing transaction. The refinancing resulted in debt service savings and the release of the Texas Department of Transportation (TxDOT) and the RTC from the financial commitments under or related to the 2010 Toll Equity Loan Agreement (TELA). The TELA was an effective tool to expedite the development of the President George Bush Turnpike Western Extension (PGBT WE) and the Chisholm Trail Parkway (CTP) projects.

As you know, the TxDOT TELA support enabled NTTA to issue debt to build the PGBT WE and CTP projects sooner than planned and with a higher credit rating, resulting in millions of dollars saved. NTTA was able to refinance the debt for these projects by issuing new NTTA System debt. The NTTA appreciates the spirit of partnership that exists between our agencies to advance projects that benefit the DFW region.

Sincerely,

A handwritten signature in black ink, appearing to read "Gerry Carrigan", is written over a large, stylized circular flourish that extends to the right of the signature.

Gerry Carrigan
CEO/Executive Director

cc: Horatio Porter
Dena DeNooyer Stroh

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.

TxDOT PLANS AHEAD FOR WINTER WEATHER FORECASTS DIFFER ON FREQUENCY AND SEVERITY OF WINTER STORMS

DALLAS — For those who put much stock into the winter weather predictions of the Farmers' Almanac, this winter could bitter cold and full of snow.



The Almanac, which claims an accuracy rate of 80 percent, is predicting the coldest weather in Texas from late November

into early December, and the "snowiest periods in late December and early to mid-February."

However, the National Oceanic and Atmospheric Administration's Climate Prediction Center, the agency tasked with developing long-range weather outlooks, is predicting almost the opposite.

Leaving little to chance regardless of the forecast, TxDOT has spent the past few months gearing up for the upcoming winter, updating response plans and restocking inventory. In early November, officials from the Dallas and Fort Worth districts held a joint media event to highlight TxDOT's winter preparations.

Dallas District officials have been coordinating with other agencies, local governments and school districts. A thorough check of inventory is complete. Supplies and materials restocked.



TxDOT photo

TxDOT maintenance personnel commence preparation exercises for the coming winter weather season to ensure all equipment, materials and workers are ready for what's coming.

All in preparation for what the coming winter might bring.

"Our goal is to maintain a safe transportation system, no matter what Mother Nature might bring," said John Hudspeth, TxDOT's director of operations in the Dallas District. "It is critical this time of year that we are fully prepared."

This season, the Dallas District will again have more than 185 pieces of equipment and nearly 300 employees readily available to immediately start working around the clock as soon as winter weather threatens North Texas.

See **WINTER WEATHER** on Back Page

OCTOBER 2017 LET PROJECTS (SUBJECT TO CHANGE)

CSJ NUMBER	HWY	LIMITS	TYPE OF WORK	EST. (M)	BID (M)	(%)	EST. TOTAL COSTS (M)***	CONTRACTOR
0048-01-064*	SH 342 (VA)	Various roadways in Dallas District	Seal coat and pavement markings	\$11.10	\$11.38	2.59	\$12.49	Brannan Paving Co., Ltd.
0918-46-291*	VA	Various locations in the City of Dallas	Improve traffic signals	\$1.42	\$1.48	4.14	\$1.66	Durable Specialties, Inc.
ESTIMATED OCTOBER 2017 TOTALS				\$12.52	\$12.86	2.77	\$14.15	
DISTRICT FY ACCUMULATIVE LETTINGS				\$12.52	\$12.86	2.77		
DALLAS DISTRICT FY LETTING VOLUME CAP				\$287.84**				

*Not mapped.

**District FY 2018 Letting Volume Cap does not include the following: 1) Southern Gateway (\$565M); 2) Previous Prop 1 commitments that have been funded through NCTCOG 10 year plan swap (\$103.2M).

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

NOVEMBER 2017 PROJECTED LETTING PROJECTS (SUBJECT TO CHANGE)

CSJ NUMBER	HWY	LIMITS	TYPE OF WORK	EST. (M)
1 2374-01-180	I-635	East of Abrams Rd. to west of Plano Rd. and east of Centerville Rd. to I-30	Construct noise walls in various locations	\$18.00
0918-00-275*	VA	Various locations to in the Dallas District	Installation of traffic signals	\$2.19
ESTIMATED TOTAL				\$20.19

*Not mapped.

COMPLETED CONSTRUCTION PROJECTS (FROM OCTOBER 1 – 31, 2017)

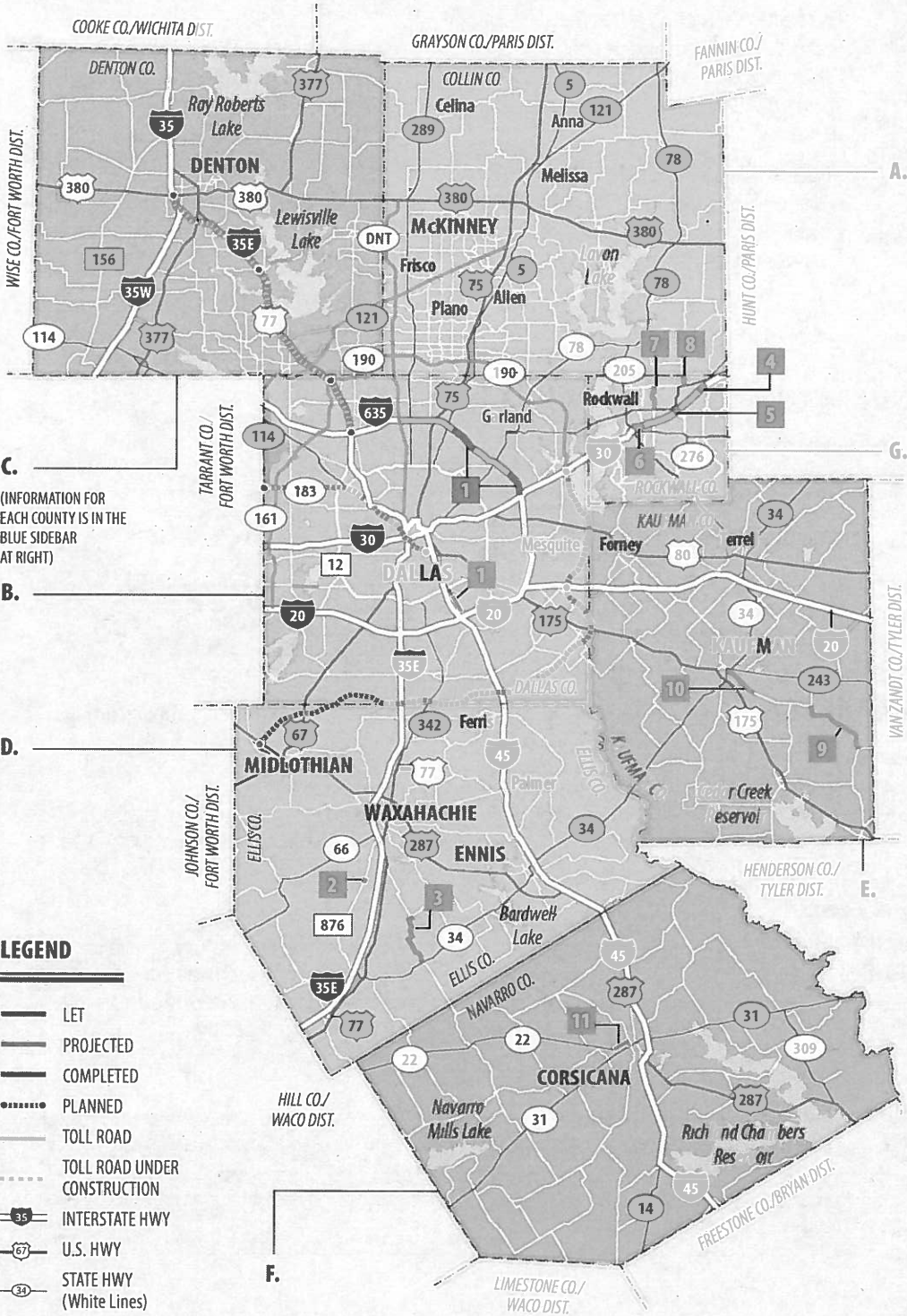
CSJ NUMBER	HWY	LIMITS	TYPE OF WORK	DATE COMPLETED	COST (M)
1 0092-02-122	SH 310	I-20 to 0.91 mi. south of SL 12 2.162 mi.	Improve guardrail to design standards	10/24/17	\$1.32
2 1051-02-017	FM 876	At Big Onion Creek 0.117mi.	Replace bridge and approaches	10/12/17	\$1.72
3 1451-01-024	FM 55	SH 34 to south of Nash Howard Rd.	Rehabilitate existing pavement	10/12/17	\$5.54
4 0009-12-074	I-30	At Erby Campbell Blvd.	Construct interchange	10/03/17	\$19.99
5 0009-12-078	I-30	At FM 551	Reconstruct FM 551 overpass at I-30 including frontage roads	10/03/17	\$30.86
6 0009-12-214	I-30	SH 205 to John King Blvd.	Reverse I-30 Rrmps east of SH 205	10/09/17	\$3.49
7 1015-01-022	FM 3549	SH 66 to FM 552	Base repair, level-up and overlay	10/18/17	\$2.58
8 1016-03-013	FM 1138	SH 66 to Collin County Line	Provide additional paved shoulders	10/20/17	\$1.96
9 1397-01-030	FM 1836	FM 2515 to FM 90	Rehabilitation of existing roadway	10/18/17	\$6.14
10 1397-01-031	FM1836	SH 34 to east of CR 146	Reconstruct existing pavement & add shoulders	10/02/17	\$5.94
11 0121-05-050	SH 22	N 37th Street to SH 31	Full depth concrete repair & overlay	10/12/17	\$1.99
ESTIMATED TOTAL					\$81.53

SOURCE: Texas Department of Transportation.

TxDOT graphics

DALLAS DISTRICT PROJECTS MAP

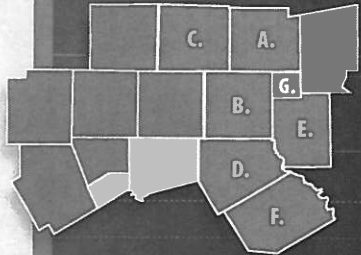
Colored and numbered boxes correspond with the charts on page 2 and show projects that have let in October, are projected to let in November, or have recently been completed.



C. (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 (White Lines)

SOURCE: TxDOT research.
*POPULATION ESTIMATE: NCTCOG



2017 DALLAS DISTRICT ESTIMATE TOTALS

VEHICLE REGISTRATION | 3,806,303
*POPULATION ESTIMATE | 4,681,210
LANE MILES | 10,493.628

A. COLLIN COUNTY
VEHICLE REGISTRATION: 729,624
*POPULATION ESTIMATE: 932,530
LANE MILES: 1,373.829

B. DALLAS COUNTY
VEHICLE REGISTRATION: 2,064,783
*POPULATION ESTIMATE: 2,502,270
LANE MILES: 3,366.158

C. DENTON COUNTY
VEHICLE REGISTRATION: 603,332
*POPULATION ESTIMATE: 814,560
LANE MILES: 1,488.733

D. ELLIS COUNTY
VEHICLE REGISTRATION: 165,813
*POPULATION ESTIMATE: 173,410
LANE MILES: 1,523.910

E. KAUFMAN COUNTY
VEHICLE REGISTRATION: 109,180
*POPULATION ESTIMATE: 116,140
LANE MILES: 1,201.810

F. NAVARRO COUNTY
VEHICLE REGISTRATION: 51,056
*POPULATION ESTIMATE: 49,170
LANE MILES: 1,192.820

G. ROCKWALL COUNTY
VEHICLE REGISTRATION: 82,515
*POPULATION ESTIMATE: 93,130
LANE MILES: 346.368



TxDOT PREPARED FOR WINTER WEATHER

CONTINUED from Cover Story

DALLAS — In Dallas County alone, TxDOT will have about 70 vehicles and 140 employees ready to respond to a winter weather event. The Dallas District has 14 snow plow blade attachments. In 2014, the District began using a brine solution to treat roadways ahead of a winter storm. Brine is a liquid, salt-based anti-icer used to pretreat roads before temperatures drop below freezing.



"We have been really pleased with the results we saw from using brine last year," Hudspeth said. "It's cost-effective, it holds up very well in extreme conditions, and it allows us to treat more roads in less time."

The Dallas District now has five new brine makers at its disposal; one each in Denton, Collin, Ellis, Kaufman and Dallas counties, allowing TxDOT to make its own pretreating material.

Also, the District has a full stock of other materials on hand, including 2,815 tons of salt/sand mixture and 35,387 tons of ice rock/chat, materials commonly used to speed

the melting process and improve traction on icy roads. Those materials are enough to carry the District through multiple days of snow and ice, and TxDOT will be ready the moment winter weather moves into North Texas.

"We've had over 500 of our state roads closed due to flooding at one time or another," TxDOT Executive Director James Bass told the American-Statesman. "We're out there and we're going to get it done."

The massive response from TxDOT Dallas — and other districts across the state — is a good start. ★

AFTER SNOW/ICE EVENT

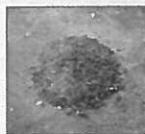
- Stockpiles/supplies are replenished (multi-day storm)
- Roadways are swept/cleaned of excess aggregate
- Winter plan effectiveness is evaluated and adjusted
- Roadway repairs are scheduled (Potholes, guardrails, structures, etc.)
- Equipment is serviced and prepared for the next winter storm

WHAT MATERIALS ARE USE ON THE ROADS?



Before an ice/Snow Event

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



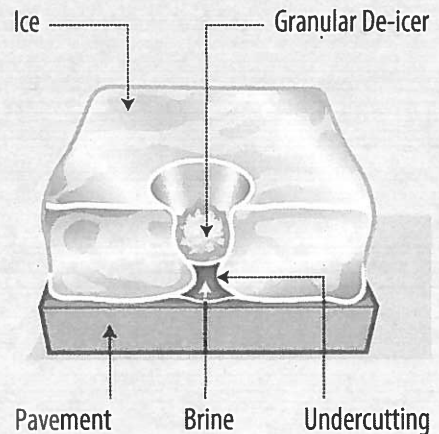
During an ice/Snow Event

- 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.



From Ms. Haylee C. Of Lewisville, Texas: "I want to report that I LOVE the transitions (even the temporaries) along 121 and 114 from Lewisville to Dallas! They are SO smooth - no "bump-bump" as you cross the transition! It makes for a much less stressful drive, even when traffic is intense. Whatever contractors are being used on these projects are AMAZING!"

SOURCE: Texas Department of Transportation.

TxDOT graphics

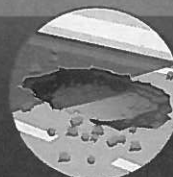
DALLAS DISTRICT | PROGRESS



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FOR MORE INFORMATION:

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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>