

1. Agenda

Documents:

[1-12-21 CM AGENDA.PDF](#)

2. Meeting Materials

Documents:

[1-12-21 PACKET.PDF](#)

AGENDA

Special City Council Meeting and Workshop



6:00 PM - Tuesday, January 12, 2021

Terrell Police Headquarters, 1100 N. State Highway 34,
Terrell, TX

Mayor Rick Carmona

Council Members

District 2 - Grady Simpson

District 3 - Mayrani Velazquez

District 4 - Charles Whitaker

District 5 - Tim Royse

City Manager Mike Sims

NOTICE IS HEREBY GIVEN that the Terrell City Council will conduct a Special City Council Meeting and Workshop at 6:00 p.m. on Tuesday, January 12, 2021, at Terrell Police Headquarters located at 1100 N. State Highway 34. The meeting is open to the public with limited seating in the Rosenbaum Room. Recommendations of the CDC regarding social distancing will be practiced during the course of the public meeting to slow the spread of the Coronavirus (COVID-19).

If you choose not to attend in person and you wish to submit public comments, email support@cityofterrell.org and title the email "Public Comment". All public comments submitted by 4:00 pm on Tuesday, January 12, 2021 will be provided to the City Council members and read into the record for the Tuesday, January 12, 2021 City Council Meeting.

1. CALL TO ORDER

2. INVOCATION

3. PLEDGE TO AMERICAN FLAG AND TEXAS FLAG.

4. HEAR REMARKS FROM VISITORS.

This time is set aside on the agenda to invite any person to address the Council on issues not subject to a public hearing. Routine administrative matters are best discussed with the appropriate City Staff before

bringing them to the Council. Prior to the meeting, please complete a "Citizen Participation Form" and present it to the City Secretary. In accordance with the Texas Open Meetings Act, Section 551.042, the City Council cannot discuss, consider, or take action on matters not listed on the agenda. Speakers should limit their comments to 3 minutes and are asked to speak into the microphone provided, identifying themselves for the record. The total amount of time set aside for this place on the agenda is 15 minutes. Comments of a personal nature directed at the Council or Staff are inappropriate.

5. DISCUSSION ITEMS

5.1. Discuss Street Assessment and Maintenance.

6. ADJOURN INTO EXECUTIVE SESSION IN ACCORDANCE WITH SECTION 551 OF THE TEXAS GOVERNMENT CODE TO DISCUSS THE FOLLOWING:

Section 551.072 Deliberations Regarding Real Property.

Section 551.074 Consultation With Attorney - Pending or Contemplated Litigation.

Section 551.087 Deliberations Regarding Economic Development Negotiations.

7. RECONVENE INTO REGULAR SESSION AND CONSIDER ACTION, IF ANY, ITEMS DISCUSSED IN EXECUTIVE SESSION.

8. ADJOURN.

I, the undersigned authority, do hereby certify that the above NOTICE OF MEETING of the Governing Body of the City of Terrell is a true and correct copy of said NOTICE, which has been posted on the front OUTDOOR BULLETIN BOARD CABINET FOR AGENDAS of the Terrell City Hall, Terrell, Texas, a place convenient and readily accessible to the General Public and on the website at cityofterrell.org, and which has been continuously posted for a period of seventy-two (72) hours prior to the date and time said meeting was convened.

Posted Friday, January 8, 2021 –5:00 p.m.

Dawn Steil, City Secretary

This facility is wheelchair accessible and accessible parking spaces are available. Requests for accommodations or interpretive services must be made 48 hours prior to this meeting. Please contact the City Secretary's office at 972-551-6600 for further information. Braille is not available.

Council Reserves the Right to Adjourn into Executive Session to Seek Legal Counsel on a Matter Which the Canon of Legal Ethics Demands to Preserve the Attorney-Client Privilege Pursuant to Section 551.071(2) of the Texas Government Code.

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[Terrell Annual Core Street Assessment](#)

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Terrell
AMERICA

A map of Terrell, Texas, with a white outline and a blue fill. The word 'Terrell' is written in red script across the top, and 'AMERICA' is written in blue capital letters below it. The map is centered on a street grid with various neighborhoods labeled around the perimeter.

Street Assessment and Maintenance

Terrell, Texas

INTRODUCTION & PURPOSE

FY 2020 Maintenance Report

- Series of potholes/utility cut locations completed during FY 2020 totaled nearly 661 tons of asphalt material applied.
- This work was completed by City Staff & contractors.

FY 20 Pothole Repair Zones

1	1206 Griffith	27	Colquitt at Lovers	53	Gant	79	West End
2	Mineral Wells	28	Stone Gate	54	Pebble Creek	80	S Adelaide
3	Rose	29	Town North	55	Sue Lane	81	West End
4	Blanche	30	Elm	56	Melody	82	W. State
5	Hackberry	31	Brin	57	Laurel Trail North	83	Volney
6	Meryle State	32	Griffith	58	Temple	84	Runnells
7	Newton	33	Rockwall	59	Mayfield	85	Temple
8	Park	34	Elm Dr	60	Colquitt	86	Sparks
9	Pacific	35	Griffith	61	Birdsong	87	Apache Trail
10	Jackson	36	C.R. 237	62	Birdsong	88	Crenshaw
11	Pacific	37	College Mound	63	St. Frances	89	New Hope
12	Johnson	38	College Mound	64	Lovers Lane	90	Mt. Olive
13	Moore	39	College Mound	65	Glenda	91	C.R. 305
14	Lawrence	40	Metro	66	Birdsong	92	College St
15	McCoulsky	41	Hwy 80	67	Eastgate	93	E High St
16	Mineral Wells	42	Boone St	68	S Adelaide	94	Boone St
17	Mineral Wells	43	C.R. 305	69	Hattie / Hood	95	West Gate
18	9th	44	Moore	70	James	96	9th Street
19	State	45	Griffith	71	W. British Flying School Blvd	97	Wilson Rd
20	Colquitt	46	Lovers	72	Blanche St	98	Howard
21	Johnson	47	Colquitt	73	Colquitt	99	Hammond
22	Grove	48	Brookhollow	74	Lane Ave	100	Sue Lane
23	Johnson	49	College	75	Hammond	101	Hammond
24	Griffith / Charles	50	Wilson Rd	76	Ann St	102	E College
25	Boone St	51	C.R. 138	77	Wisteria	103	N. Park
26	C.R. 305	52	Griffith	78	N. Blanche		

➤ Despite FY20 budget cuts, street work continued

FY 2020 Maintenance Report

Park St



Westend St



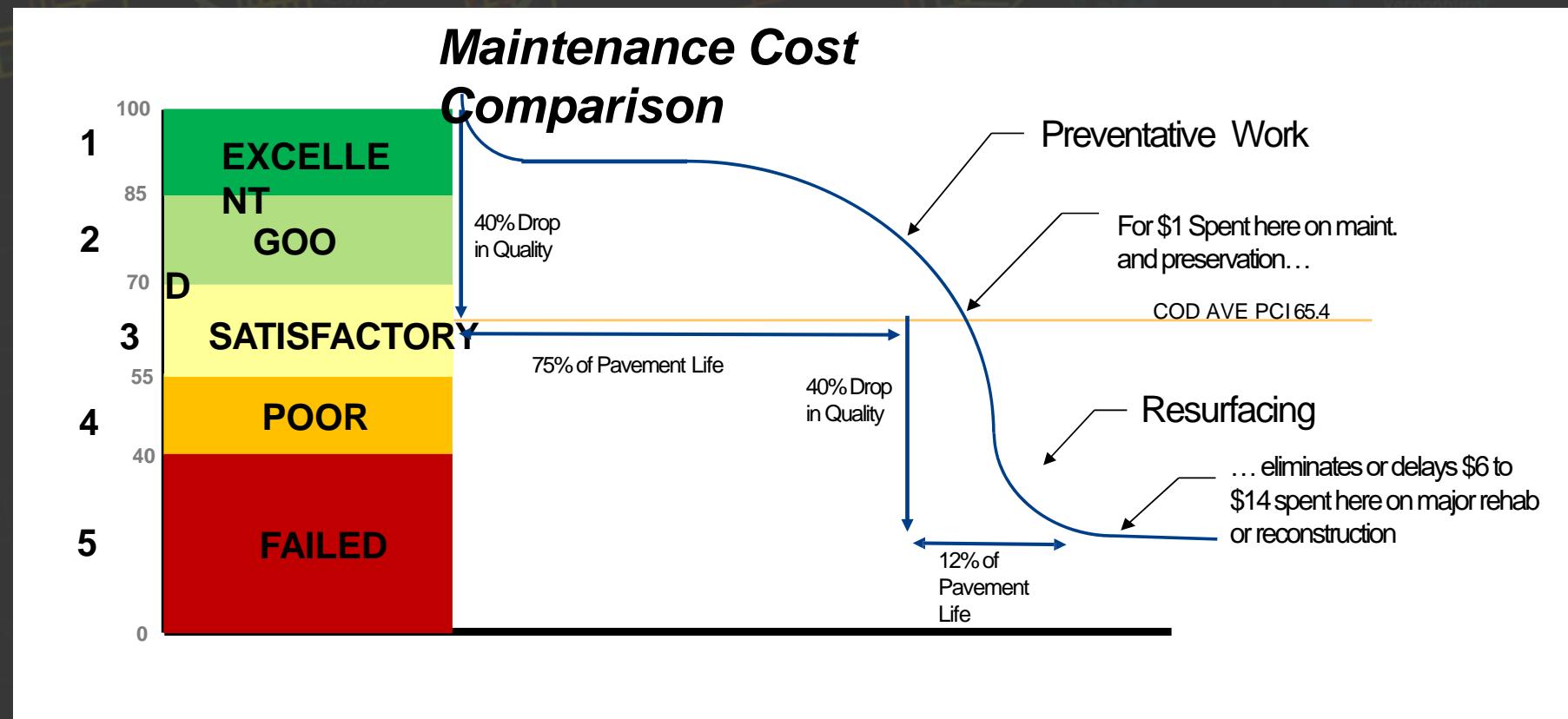
Temple St



Town North



Benefit of Pavement Maintenance and Preservation



“Keep Good Roads Good”

Street Maintenance Strategies

- “Keep good streets good”
- Prevent streets scoring 1 to 3 in any given year from digressing to a 4 or 5 score in the subsequent year’s condition assessment.
- To achieve this goal, a variety of pavement strategies each year should be utilized.
- These methods are intended to:
 - Deter Off Street Enemies (Grass, Water)
 - Preserve Life of Pavement
 - Extend Life of Pavement



Street Maintenance Strategies

► Widely recognized pavement maintenance methods:

- Roadside Ditch Cleaning and Regrading
- Herbicide Edge Treatment
- Crack Sealing and Crack Filling
- Fog Seal
- Scrub Seal
- Chip Seal
- Slurry Seal
- Micro Surfacing
- Cape Seal
- Hot-Mix Asphalt Overlay
- Mill & Hot-Mix Overlay
- Full-Depth Pavement Repair
- Concrete Panel Replacement
- Concrete Panel Raising



PAVEMENT ASSESSMENT PLATFORM

Assessment Process

1



Send or upload a map of your road network (Provided by City Engineering Dep.)

2



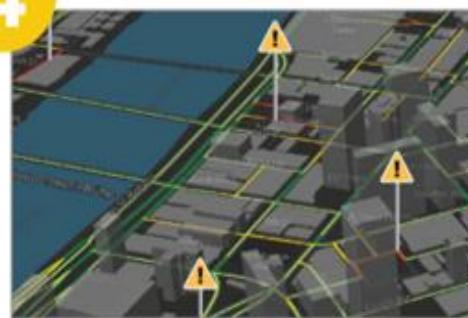
SPI uses RoadNav & RoadSense apps to seamlessly collect image data of your road network

3



Road network images are then analyzed by RoadBotics

4



View your road assessment on RoadWay, RoadBotics' interactive online platform (Compatible with City's ArcGIS)

Individual Distresses RoadBotics Identifies



Potholes



Fatigue Cracking



Pavement Distortions



Patches/Sealant



Transverse/Longitudinal Cracking



Surface Deterioration

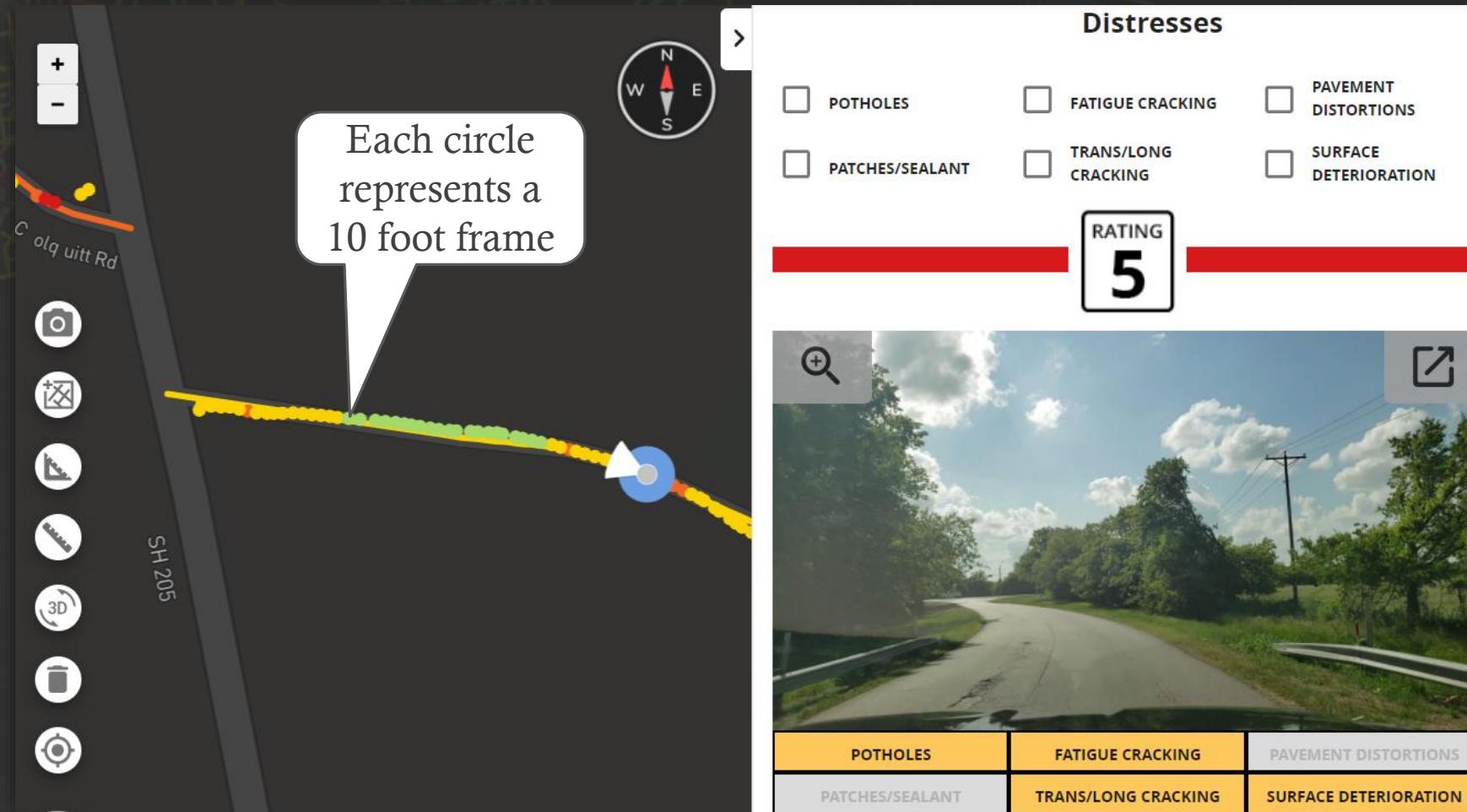
Road Network Scoring

Scoring System

Condition	RoadBotic's Score		PCI Rating Equivalent	Letter Grade Equivalent
Excellent	1-1.49	1	100-91	A
Good	1.5-2.49	2	90-71	B
Fair	2.5-3.49	3	70-51	C
Poor	3.5-4.49	4	50-31	D
Failed	4.5-5	5	30-0	F

Terrell's roadway conditions were evaluated using a 1-5 scale, with 1 being the best pavement condition and 5 being the worst pavement condition.

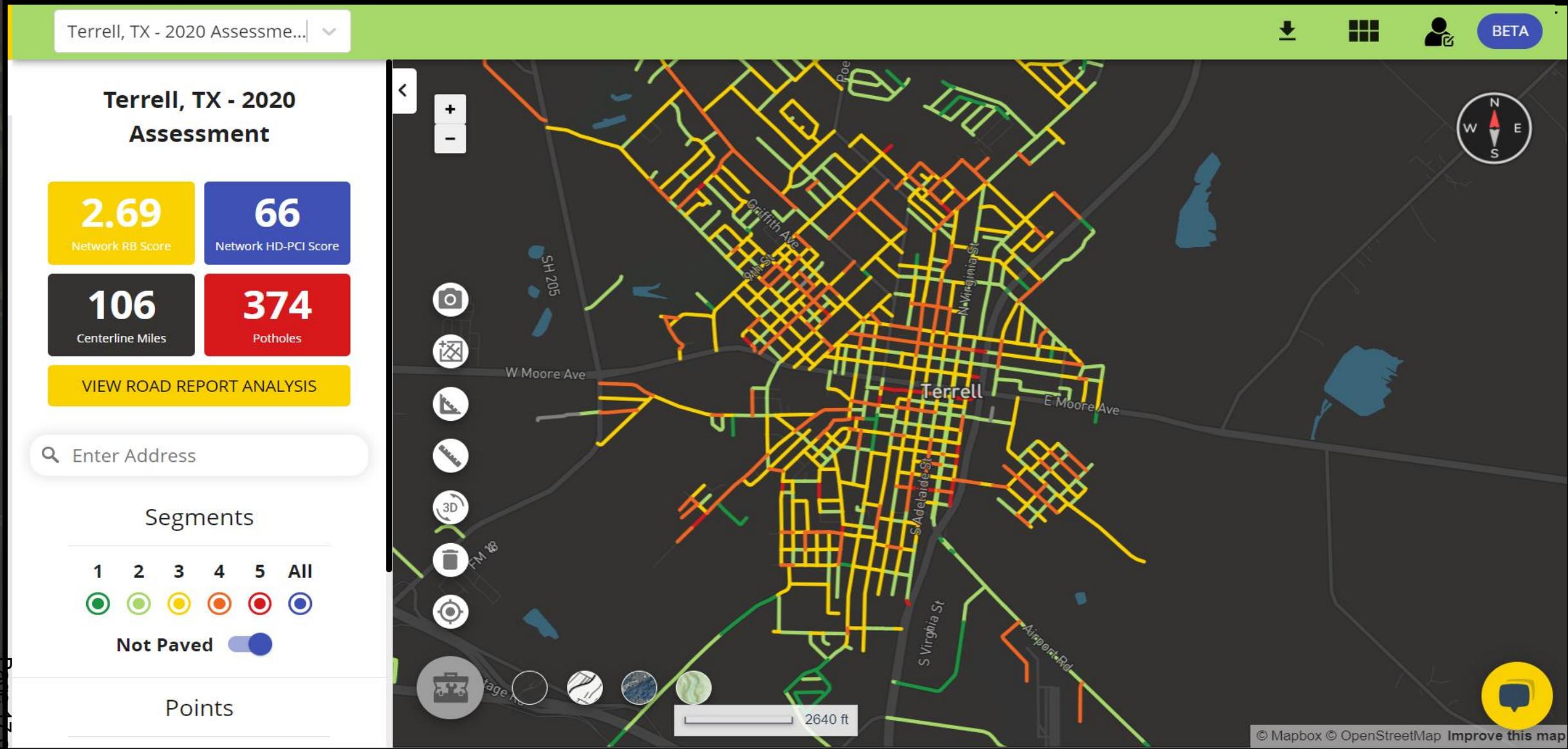
Roadway Individual Distresses by Segment



The data is further assessed every 10 feet to display the localized condition of a given roadway segment.
At this level, the six individual types of distresses are identified.

CITY OF TERRELL ASSESSMENT RESULTS

Terrell's Roadway Platform



<https://roadway.roadbotics.com/>

Roadway Condition Scoring By Segment



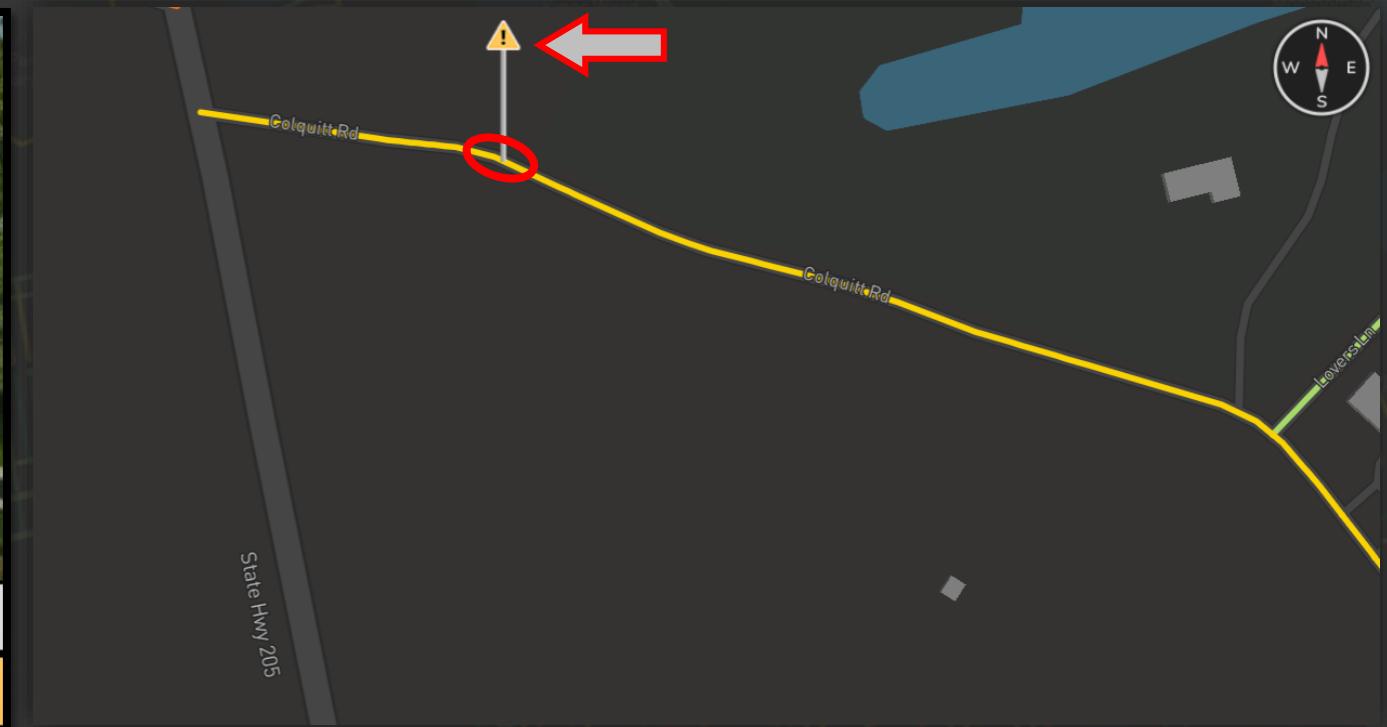
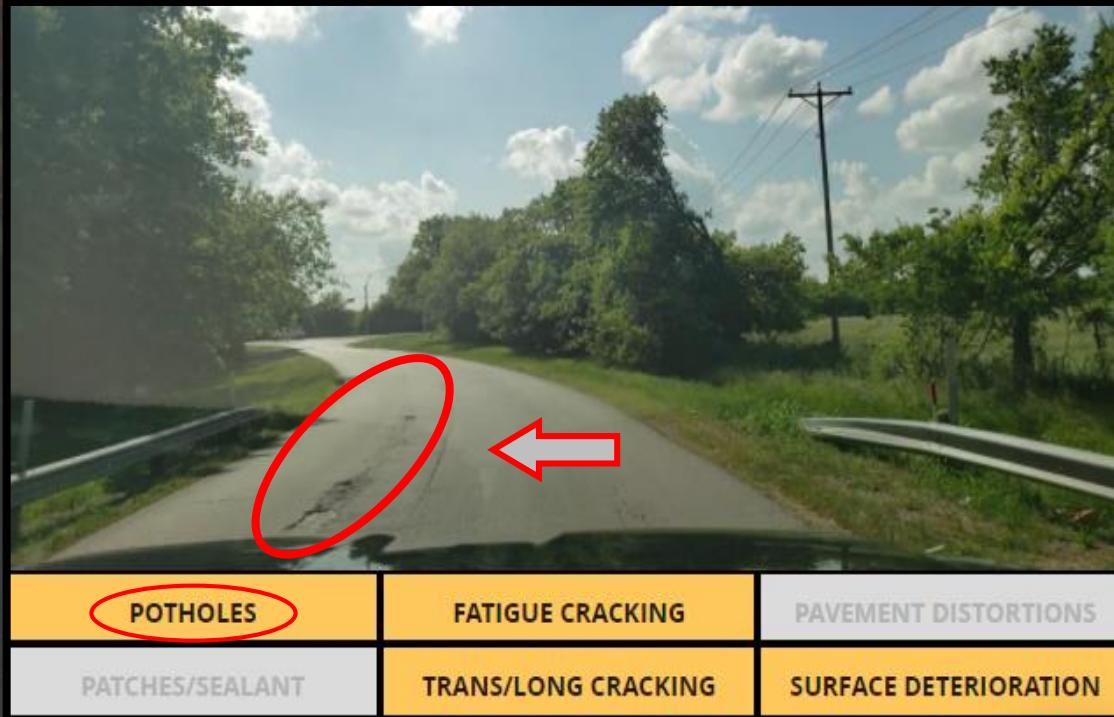
Each street is analyzed in segments of varying lengths to facilitate the assessment of roadway condition.

Example Graphic Birds-Eye View – Colquitt Rd



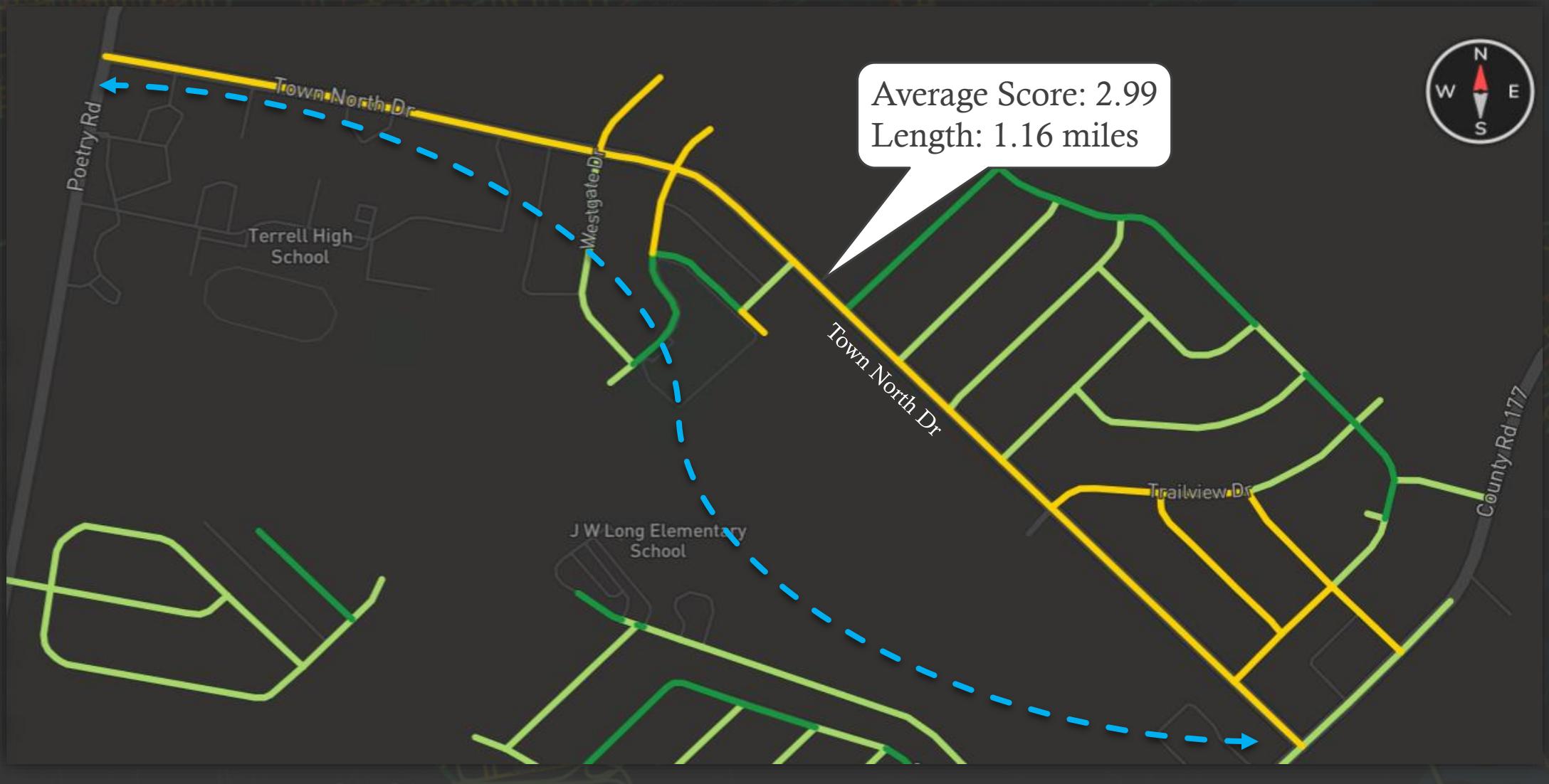
- Colquitt Road Between Ninth Street and SH 205.
- Overall roadway average score is 2.68

Example Graphic Street View – Colquitt Rd



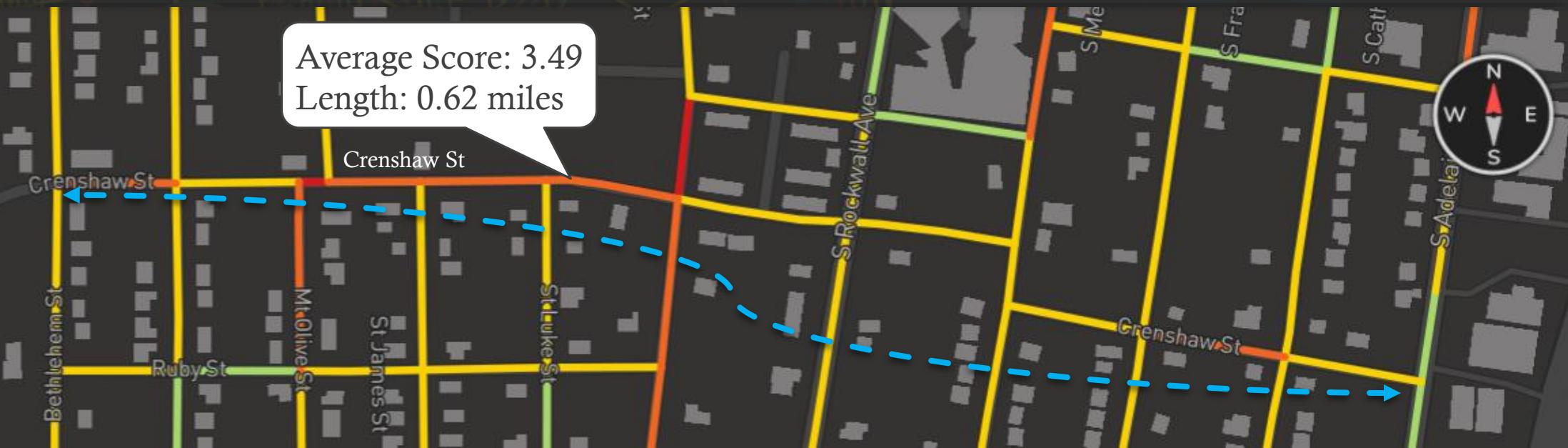
Colquitt Road Between SH 205 and Ninth Street
Pothole location and all other pavement distresses present at this particular 10 feet segment location.

Example Graphic Birds-Eye View Town North Drive



Example Graphic Birds-Eye View

Crenshaw Street



Terrell's Road Network Results

Terrell's Score

Condition	RoadBotic's Score		PCI Rating Equivalent	Letter Grade Equivalent
Excellent	1-1.49	1	100-91	A
Good	1.5-2.49	2	90-71	B
Fair	2.5-3.49	3	70-51	C
Poor	3.5-4.49	4	50-31	D
Failed	4.5-5	5	30-0	F

- Terrell's system network scored **2.69** overall. This score is equivalent to a **66** PCI score and a letter grade score of **C**.
- Data was collected in June 2020.
- TxDOT, Kaufman County, and private roadways were not included in the analysis.

Terrell's Road Network Results

Terrell's Network Data Summary (1)

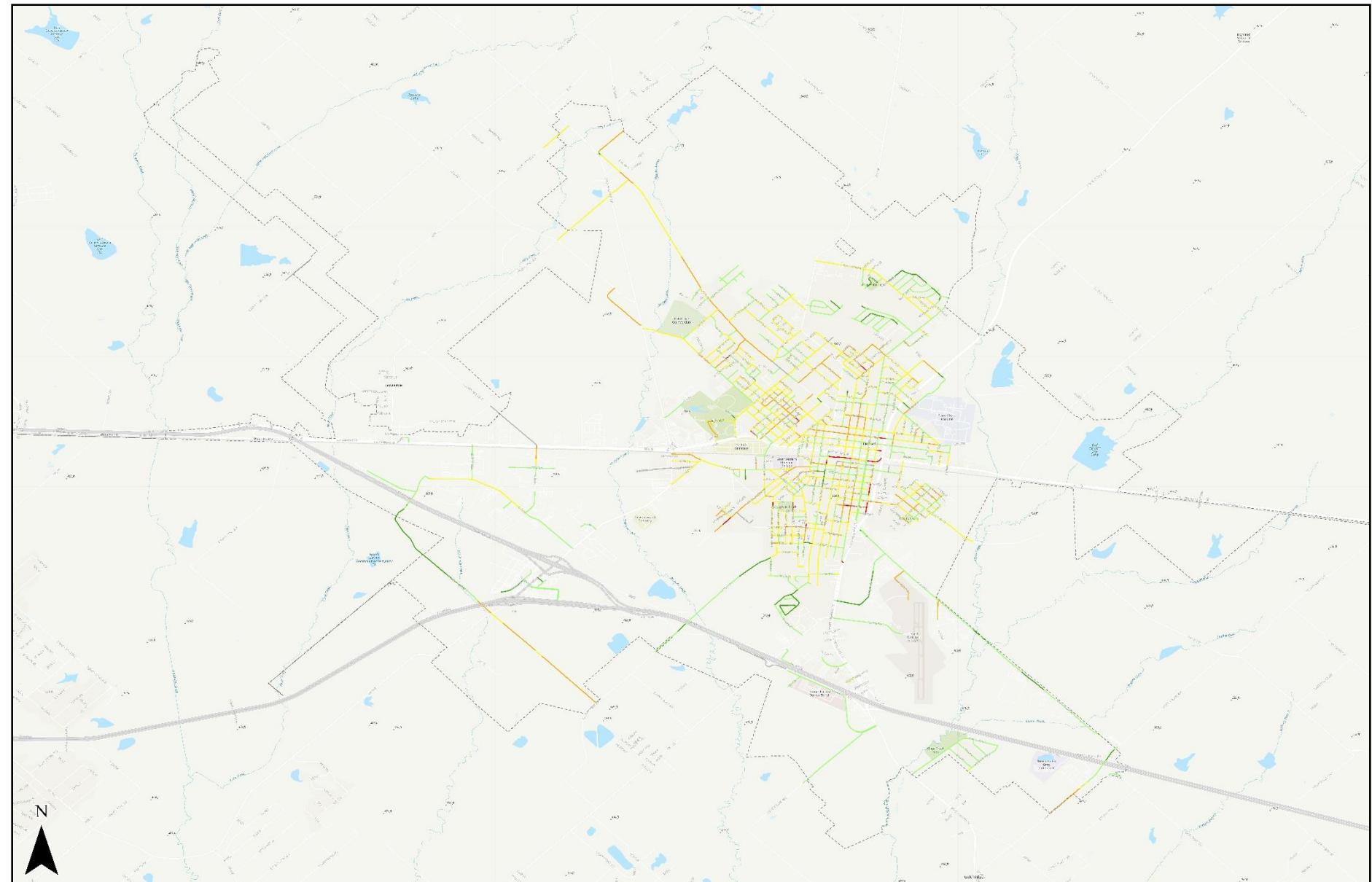
Terrell's Overall Street Network Data Summary

Overall RoadBotics' Network Score	2.69
Total Centerline Length (mi)	106.23
Total Length of Asphalt Streets (mi)	79.55
Total Length of Concrete Streets (mi)	26.68
Total Number of Potholes Locations (ea)	374

Terrell's Road Network Results

Terrell's Network Data Summary (2)

RoadBotics' Score	Length (mi)
1-1.49	5.68
1.5-2.49	40.59
2.5-3.49	40.24
3.5-4.49	15.84
4.5-5	3.88
Total Length	106.23



Road Condition



SPI
SCHAUMBURG & POLK, INC.
BEAUMONT | HOUSTON | TERRELL | TYLER
200 S. Virginia St. P.O. Box 1028
Terrell, TX 75160
972.593.0205
Firm Registration No. F-520

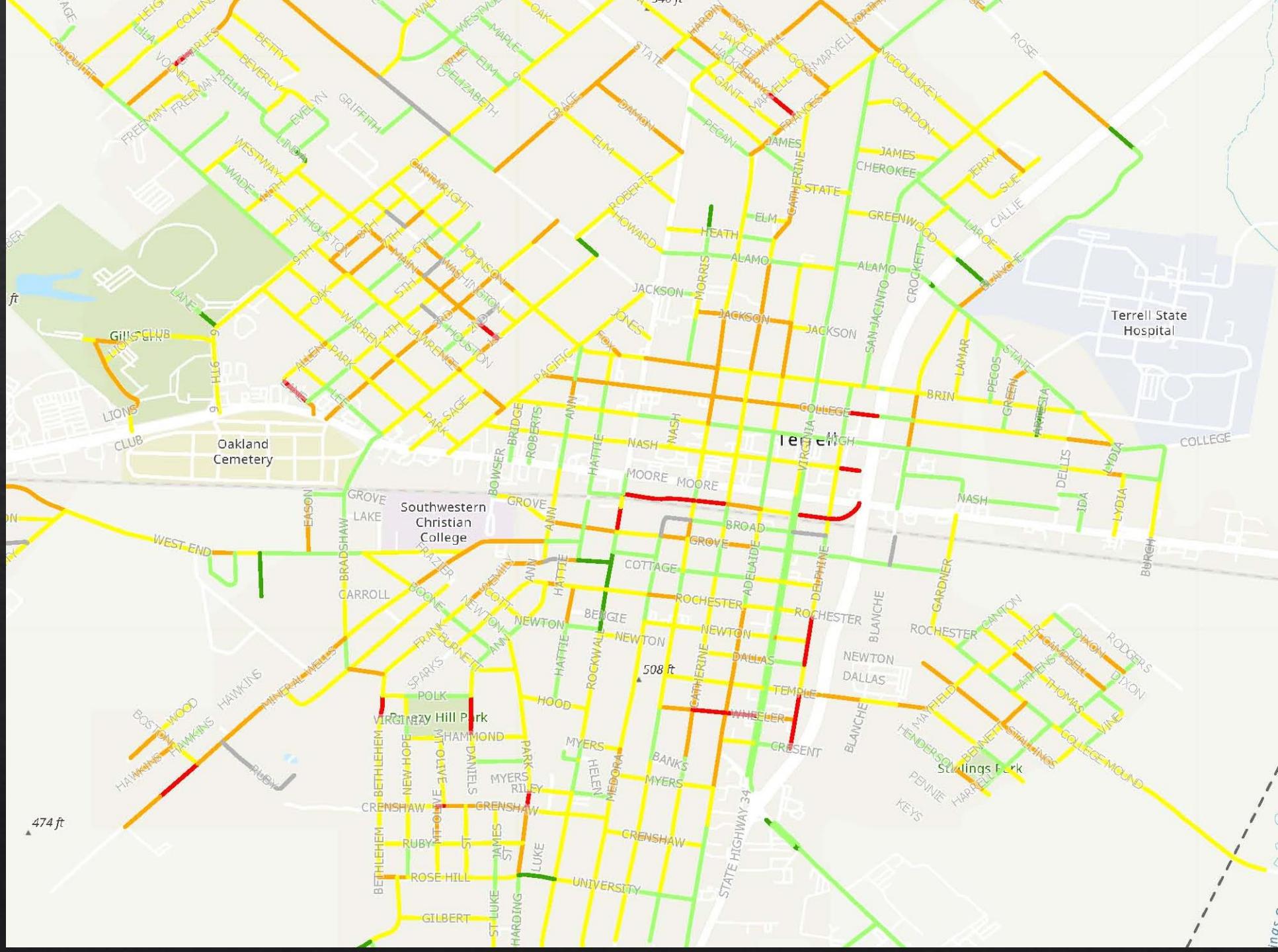
City of Terrell, Texas Roadway Condition Map 2020



Scale: 1:18,000

0 2,000 4,000 8,000 Feet

*Disclaimer: Map is intended for general reference use only. Data has been gathered from various sources and is not guaranteed to be accurate. Crackpouts shown from the data are the responsibility of the user. Schaumburg & Polk, Inc. assumes no responsibility for errors or omissions.



Streets Ranking 1 Overall

Streets Ranking 1 Overall	
Street Name	Length (mi)
American Way	0.35
Artesia Street	0.12
Brooks Street	0.10
Brushy Creek Lane	0.37
Creekside Drive	0.52
Denali Court	0.10
Hamilton Drive	0.31
Industrial Blvd	0.79
Jackson Drive	0.21
Lane Street	0.11
Meadowcrest Drive (Concrete Portion)	0.53
Northridge Drive	0.17
South Rockwall Ave (Concrete Portion)	0.71
Walker Way	0.06
Total Miles	
4.46	

Streets Ranking 1-2 Overall

Streets Ranking 1 - 2 Overall

Street Name	Length (mi)	Street Name	Length (mi)	Street Name	Length (mi)	Street Name	Length (mi)
2nd Street	0.098	East Alamo Street	0.309	Las Lomas Pkwy	0.316	Roosevelt Court	0.065
5th Street (excluding unpaved section)	0.204	East Broad Street (N. Frances to Virginia St)	0.194	Laurel Trail (Brookhollow Dr to End)	0.155	Rosehill Road (I-20 to Lincoln Ln)	0.939
6th Street	0.265	East Grove Street	0.425	Lee Ave (1st Street to 4th Street)	0.149	Ross Street	0.139
Adams Drive	0.020	East High Street	0.794	Lexington Drive	0.430	Sage Hill Pkwy	1.244
Airport Road	2.917	East State Street	0.601	Lila Lane	0.061	Saint Luke Street (Gilbert St to Ruby St)	0.169
American Way	0.352	East University Street	0.067	Linda Drive (Rellia Dr to 11th Street)	0.144	San Jacinto (Gordon Dr to E Brin St)	0.573
Artesia Street	0.116	Eastgate Drive	0.250	Live Oak Lane	0.165	Sandlewood Drive	0.209
Athens Street	0.178	Elizabeth Street	0.118	Lydia Street (E High St to College St)	0.056	Scott Street	0.056
Baker Street	0.247	Elm Drive (9th Street to Walnut Street)	0.234	Maple Drive	0.153	Shady Creek Lane	0.268
Beverly Drive	0.385	Estate Lane	0.269	Market Center Drive	0.104	S Hattie Street (Grove to Cottage & Newton to Hood)	0.306
Birdsong Court	0.046	Estess Drive	0.148	Meadowcrest Drive (Stonegate Dr to Northridge Dr)	0.527	S Medora Street (W Newton St to W Grove St)	0.195
Birdsong Lane	0.219	Evelyn Drive	0.092	Medical Drive	0.202	S Park Street (Rosehill to south roadway end)	0.159
Boone Street (Mineral Wells to S. Ann Street)	0.204	Forrest Creek Lane	0.184	Metro Drive (Temtex Blvd to Apache Trl)	0.326	S Rockwall Ave (Rockwall Ct to Windsor & Newton to Grove)	0.709
Bowser Circle	0.086	Glenda Street	0.155	Metrocrest Way	0.341	S Virginia Street	1.336
Bradshaw Street (West End to Moore Ave)	0.265	Gold Meadow Drive	0.352	Mitchel Circle	0.168	Spring Creek Lane	0.031
Bridge Street	0.135	Green Street (E Brin St to College Street)	0.062	N Ann Street (Moore Ave to W High St)	0.135	Stonebriar Way	0.128
British Flying School Blvd	0.614	Griffith Court	0.145	N Frances (W McCaulskey St to Stonegate St)	0.690	Stoney Creek Lane	0.146
Brookhollow Drive	0.305	Hamilton Drive	0.315	N Hattie Street (Moore Ave to W College St)	0.197	Tanger Drive	1.280
Brooks Street	0.096	Harrell Street	0.195	North Virginia Street	1.062	Tejas Drive	0.150
Brookwood Drive	0.167	Harrisee Street	0.180	Northridge Drive	0.171	Temtex Blvd	0.376
Brushy Creek Lane	0.369	Haynes Circle	0.109	Oak Post Drive	0.172	Thornbriar Street	0.078
Canton Street	0.123	Helen Street	0.042	Pebble Creek Lane	0.166	Timber Court	0.229
Carl Lee Circle	0.140	Henderson St (Benett Street to End)	0.113	Pecan Street	0.157	Timberside Drive	0.201
Chappell Street	0.213	Heritage Lane	0.049	Pecos Street	0.133	Trailview (StonegateDr to Meadowcrest Dr)	0.132
Cherokee Street	0.094	Holly Court	0.017	Pin Oak Drive	0.262	Truman Court	0.090
Circle Drive	0.222	Homer Circle	0.086	Polk Street (New Hope St to Daniels St)	0.122	Wade Street	0.117
College Street	0.088	Houston St (1st to 3rd & 9th to 10th)	0.174	Rash Lane (Lovers Ln to alley)	0.212	Walker Way	0.064
Colquitt Road (Collins Dr to 9th Street)	0.527	Ida Street	0.072	Redwood Lane	0.869	West Alamo Street	0.199
CR 301	0.701	Industrial Blvd	0.793	Relia Drive	0.195	Westgate Drive (Eastgate Dr to Town North Dr)	0.191
Creekside Drive	0.518	Iron Horse Drive	0.462	Rexal Court	0.102	Westvue Street	0.269
Crockett Street	0.165	Jackson Drive	0.206	Ridgecrest Drive	0.214	Willow Creek Lane	0.209
Crossroads Parkway	0.637	Kennedy Drive	0.160	Riley Street (Rockwall Ave to S Medora)	0.073	Willowbrook Drive	0.185
Daniels Street (Pinkston St to S. Ann Street)	0.137	Kings Creek	0.854	Robert Street	0.135	Wilson Road	0.520
Denali Court	0.104	Lane Street	0.115	Rockwall Court	0.031	Windsor Avenue	0.642
Dick Street	0.078	Laroe Street (SH 34 to San Jacinto St)	0.177	Roosevelt Avenue	0.338	Yosemite Lane	0.280

Total Miles 40.16

Streets Ranking 5 Overall and Unpaved Streets

Streets Ranking 4 - 5 Overall and Unpaved Streets

Street Name	Length (mi)	Street Name	Length (mi)	Street Name	Length (mi)
3rd Street	0.62	Lions Club Lane	0.47	Ruby Court (Unpaved)	0.19
Bethlehem Street	0.46	Main Street (1st St to 9th St)	0.53	South Burch Street (Unpaved)	0.06
Cartwright Street	0.14	Mineral Wells Street	0.89	Griffith Avenue (Unpaved) ^c	0.18
Charles Lane	0.38	North Catherine Street (N Frances to E Brin St)	0.61	County Road 237 (Unpaved)	0.27
Colquitt Road (Collins Dr to County Road 233)	1.25	Silent Wings Boulevard	0.36	Washington Street (Unpaved)	0.05
Corley Street	0.06	Skyline Drive	0.19	Houston Street (Unpaved) ^A	0.05
County Road 138	0.35	South Adelaide Street (Meyers St to E Rochester)	0.41	South Medora Street (Unpaved)	0.09
Sage Hill Parkway (County Rd 304 to Champion Rd)	2.64	South Alley Road	0.46	2nd Street (Unpaved)	0.05
Crenshaw Street	0.62	South Delphine Street	0.56	5th Street (Unpaved)	0.05
Eason Street	0.12	Stallings Street	0.33	9th Street (Unpaved)	0.06
East Wheeler Street	0.19	Wall Street	0.26	FM 2578 (Unpaved) ^B	0.31
Emily Street	0.10	West College Street	0.38	Williams Street (Unpaved) ^A	0.47
Fox Street	0.07	West Grove Street	0.33	South Blanche Street (Unpaved)	0.06
Grace Lane	0.39	West Jackson Street	0.18	East Broad Street (Unpaved)	0.06
Hackberry Street	0.27	West McCoulskey Street	0.16	Frontage I 20 (Unpaved) ^B	0.18
Hardin Street	0.16	West Wheeler Street	0.06	West Cottage Street (Unpaved) ^A	0.04
Lane Avenue	0.09	County Road 239 (Unpaved)	0.28		
					Total Miles 16.54

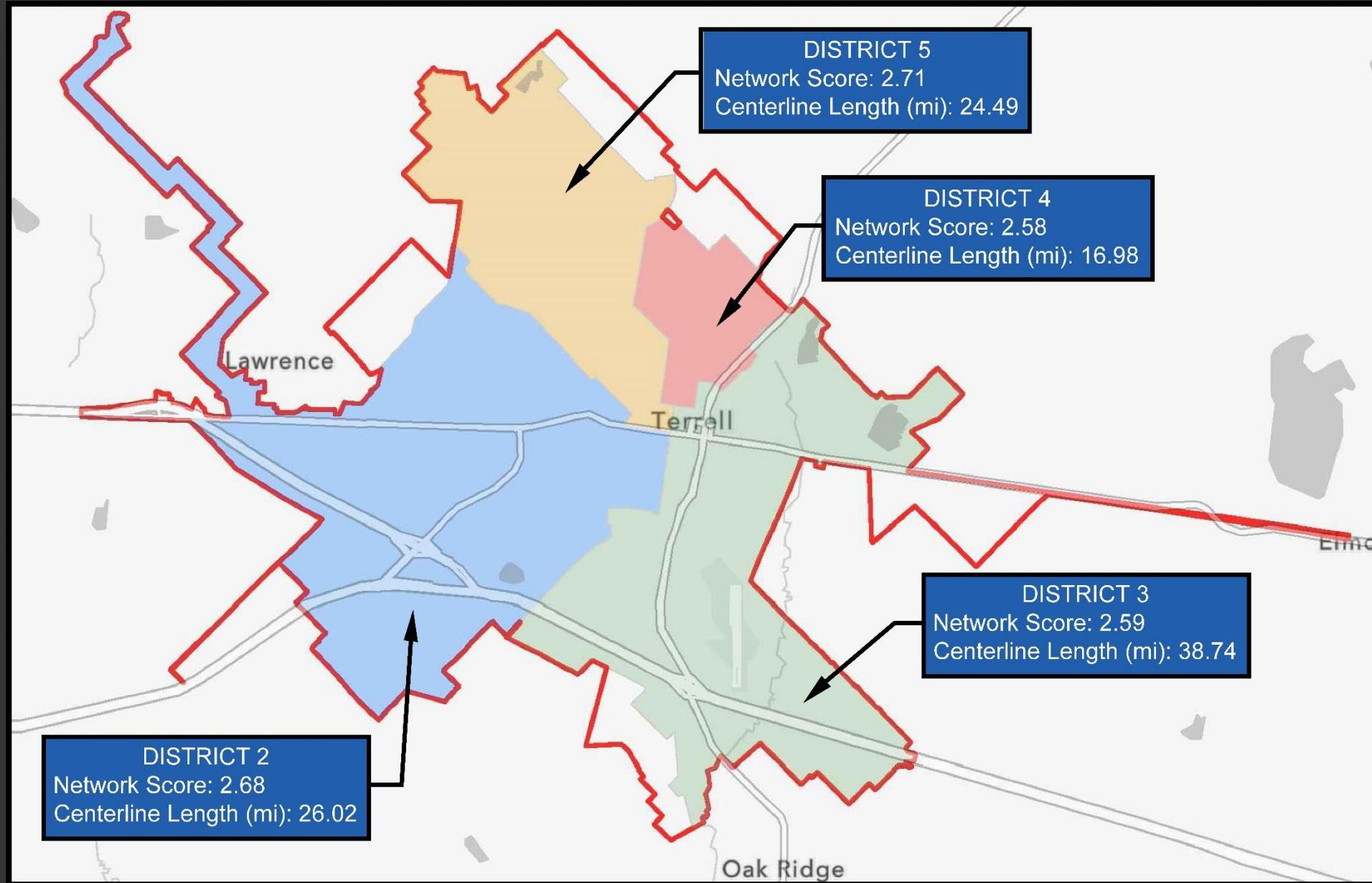
^A RoadBotics identified large base failure area/roadway debris/and or atypical roadway width as an unpaved segment.

^B Portions of roadway is not part of the Terrell's Street Network

^C Roadway segment was undergoing reconstruction at the time of data collection

Although streets scoring 4-5 and unpaved streets add up to 19.72 miles total, some 4-5 segments are nestled within streets scoring 2-3. In many cases, these segments receive a bad score due to localized issues that can be addressed by ordinary street maintenance and does not require major rehab/reconstruction of the entire street.

Terrell's Network Data Summary By District



CURRENT YEAR STREETS PROGRAM



Streets FY 21 Budget Items (1)

Category

Pothole Repair

Funding (G.F.)

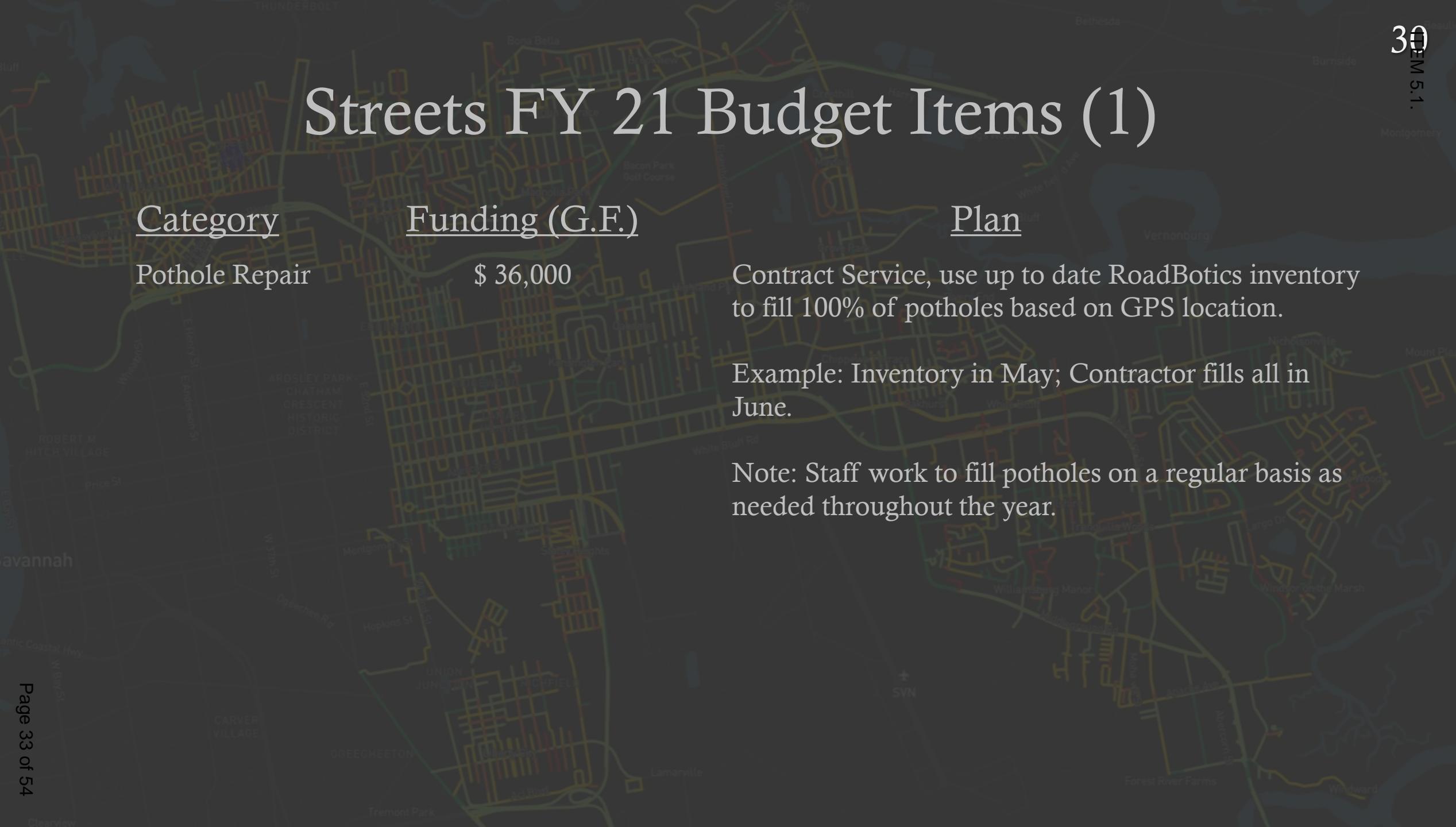
\$ 36,000

Plan

Contract Service, use up to date RoadBotics inventory to fill 100% of potholes based on GPS location.

Example: Inventory in May; Contractor fills all in June.

Note: Staff work to fill potholes on a regular basis as needed throughout the year.



Streets FY 21 Budget Items (2)

Category

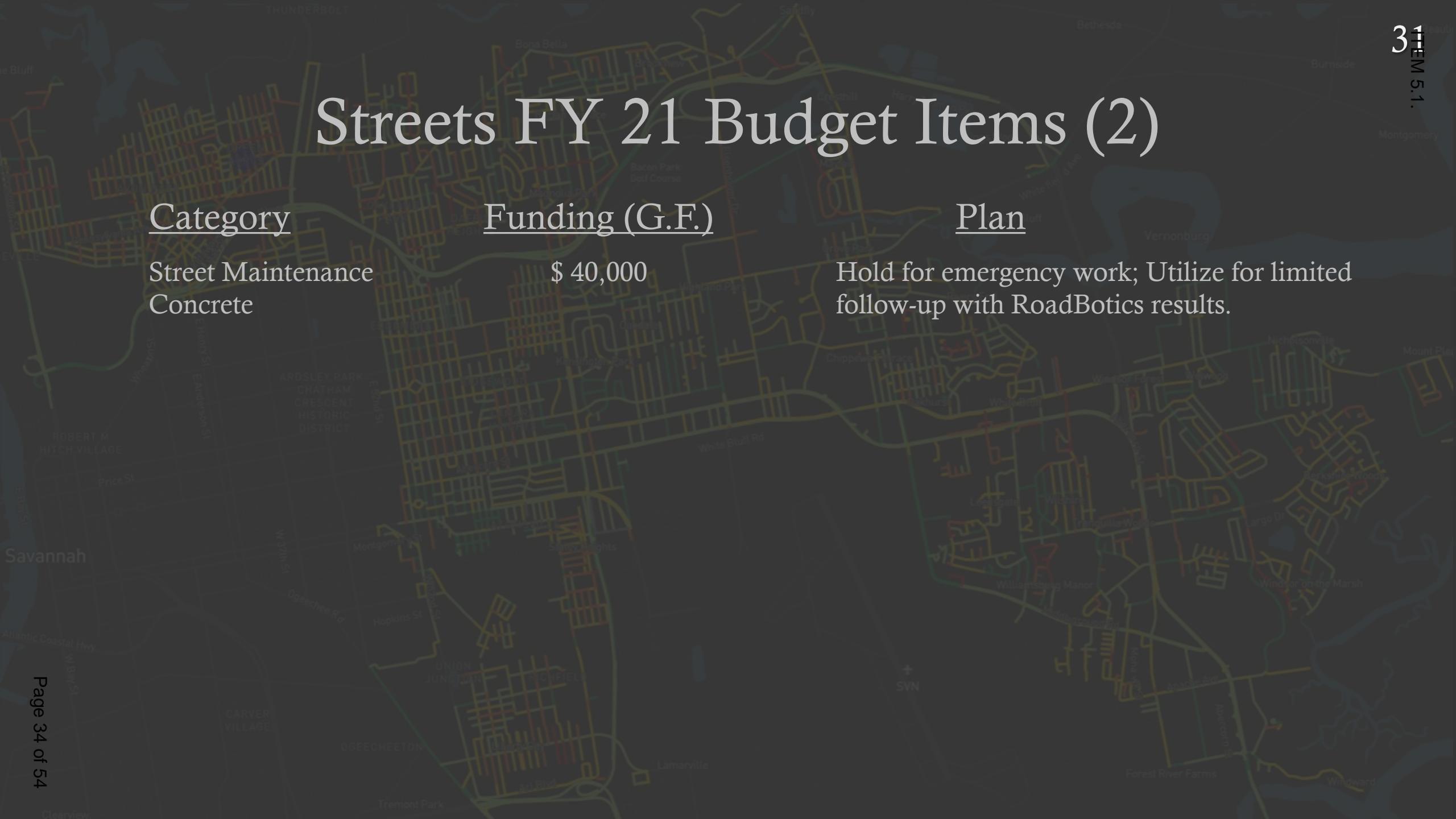
Street Maintenance
Concrete

Funding (G.F.)

\$ 40,000

Plan

Hold for emergency work; Utilize for limited follow-up with RoadBotics results.



Streets FY 21 Budget Items (3)

<u>Category</u>	<u>Funding (Stormwater)</u>	<u>Plan</u>
Blade & grade open Drainage streets.	\$ 175,000	Utilize RoadBotics data to select priority street implementation with Staff and Contractors
Street sweeping set aside	\$ 120,000	<p>Note: Sweeping include TxDOT roadways</p> <p>All curb streets will be swept on a quarterly cycle</p> <p>Budget savings due to good pricing on sweeping will allow us to utilize surplus funds on open drainage ditch maintenance</p>

Streets FY 21 Budget Items (4)

Category

Pavement collapse
repairs

Funding (Capital Imp. Fund)

\$ 100,000

Plan

Utilize RoadBotics data to identify key pavement failure locations.

We will also utilize staff to identify key failure and repairs as needed throughout the year.

Note: Does not include additional \$100,000 for utility cut repairs

Streets FY 21 Budget Items (5)

<u>Category</u>	<u>Funding (G.F.)</u>	<u>Plan</u>
Street Maintenance Asphalt	\$ 275,000	Utilize RoadBotics/SPI analysis to perform maintenance on priority asphalt streets in the 2 – 3 range.
Street Preventative Maintenance	\$ 125,000	Process: Develop bid documents asap, contract and implement as weather conditions allow.
TOTAL	\$ 400,000	Note: Repeat annually and expand.

Note: Does not include G.F. line items for Crack Seal, Striping, signs and ROW Maintenance

2021 Street Maintenance Program

- City's set budget for the 2021 Street Maintenance Program: \$400,000.00.
- Higher traffic volume residential streets were prioritized.
- Plan includes streets in all four districts.
- The streets selected for the 2021 Street Maintenance Program were initially intended for the FY 2020, however, due to COVID-19 related budget reductions, the program was pushed to FY 2021.
- Herbicide treatment efforts will be completed by block segments in the City rather than various separate locations.
- SPI incorporated the now available information from RoadBotics and fine-tuned existing program to fit the resulting data.
- Strategy: Initial contract for \$325,000. Hold remaining \$75,000 for additional work as the year progresses.

2021 Street Maintenance Program

► 2021 Street Maintenance Program Summary:

- Street maintenance initial goal: \$325,000.00
- Approximately 72,000 LF of crack seal (3.3 miles of roadway)
- 500 linear feet of crack fill
- 76 square yards of asphalt base repair
- 3.3 miles of fog seal
- 25.4 miles of herbicide treatment



2021 Street Maintenance Program

- 2021 Street maintenance Budget: \$325,000

2021 STREET MAINTENANCE PROGRAM - CITY OF TERRELL, INVENTORY OF STREETS											
SUMMARY OF QUANTITIES								BASE BID			
STREET NAME	START	END	RoadBotics Ranking	Asphalt/Concrete	LENGTH (FEET)	WIDTH (FEET)	AREA (SY)	TxDOT Item 712 Crack Seal (LF)	SPI Item 2 Crack Fill (LF)	² TxDOT Item 315 Fog Seal (GAL)	Base Repairs (SY)
Glenda St	Laurel Trail N	End of Road	2	Asphalt	818	26	2363	4860		236	6
Circle Dr	Walnut St	End of Road	2	Asphalt	1174	25	3261	5683		326	
Washington	Eighth St	Ninth St	3	Asphalt	219	21	511	896		51	
Eighth St	Washington	Johnson	3	Asphalt	265	14	412	1175		41	
Roberts St	W High St	W Nash St	2	Asphalt	338	20	751	960		75	
N Ann St	W High St	College St	4	Asphalt	328	24	875	2344		87	
1st St	Johnson St	Griffith Ave	3	Asphalt	884	20	1964	4255		196	
Brookwood Dr	Town North	82ft from Town N	2	Asphalt	82	26	237	650		24	
Hackberry St	N Rockwall St	Wall St	3	Asphalt	218	17	412	788		41	
E Jackson St	Adelaide St	Virginia St	3	Asphalt	345	20	767	2370		77	
N Frances St	Jackson St	Heath St	3	Asphalt	932	28	2900	5033		290	
W Alamo St	Rockwall Ave	Frances St	2	Asphalt	723	24	1928	2391		193	
Heath St	Catherine St	Frances St	2	Asphalt	339	22	829	1080		83	
Greenwood St	Virginia St	Crockett	3	Asphalt	822	20	1827	5895		183	
4th St	Lane Ave	Warren St25	2	Asphalt	983	16	1748	4419		175	
N. Park Ave	Pacific Ave	1st St	3	Asphalt	620	19	1309	4752		131	
Boston St	Mineral Wells	Wood St	3	Asphalt	539	15	898	1530		90	
Bradshaw St	Mineral Wells	Frazier	2	Asphalt	383	17	723	2478		72	70
S Hattie St	Grove St	Cottage St	2	Asphalt	397	18	794	1295		79	
W Newton St	Ann St	Rockwall	2	Asphalt	750	14	1167	1400		117	
S Medora St	W Meyers	W University St	3	Asphalt	1618	18	3236	2400		324	
Rosehill Rd	Lincoln Ln	New Hope	3	Asphalt	1314	18	2628	3500	500	263	
E Newton	Adelaide St	Virginia St	3	Asphalt	321	17	606	2000		61	
Baker St	S Medora Rd	S Rockwall Ave	3	Asphalt	397	40	1764	2678		176	
Myers St	Adelaide St	Frances	2	Asphalt	660	21	1540	2293		154	
E Dallas St	Delphine	Virginia St	2	Asphalt	332	19.5	719	600		72	
E Grove St	Delphine	Virginia St	2	Asphalt	326	32	1159	800		116	
Athens St	College Mound	Dixon St	2	Asphalt	941	20	2091	1000		209	
Vine St	College Mound	Thomas St	2	Asphalt	285	19	602	2500		60	

¹TxDOT Item 731 Herbicide Treatment = 25.4 Centerline Miles. See Map for Application Locations

2021 Street Maintenance Program

➤ 2021 Street maintenance OPCC



Opinion of Probable Construction Cost
City of Terrell - 2021 Street Maintenance Program
City Project # 20-01

Estimate Updated: November 12, 2020

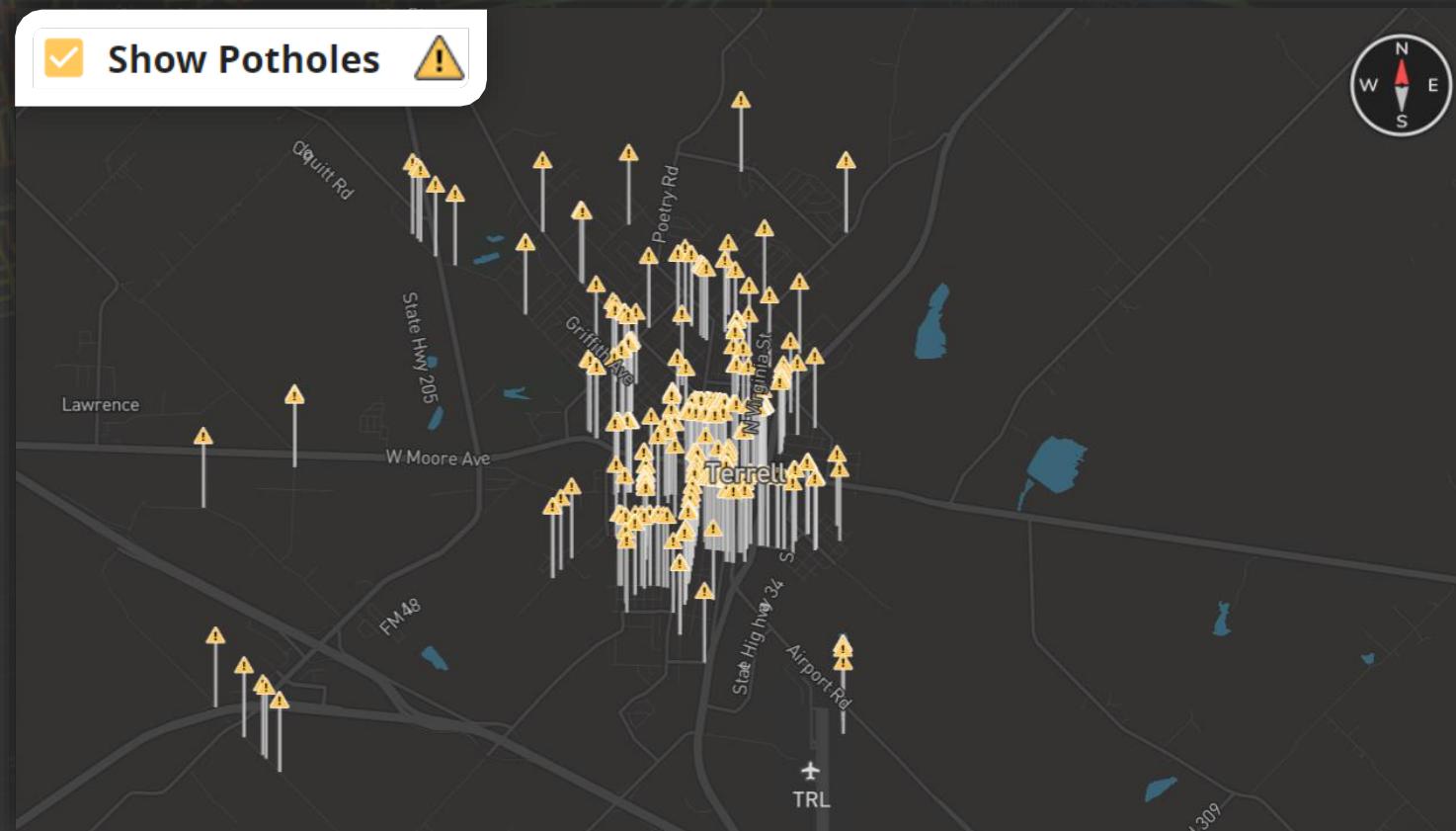
Base Bid:						EOPCC AMOUNT
ITEM	DESCRIPTION	UNIT	QUANTITY	PRICE		
1	HMAC Crack Seal	LF	72,025	\$ 2.20	\$ 158,455.00	
2	Crack Fill	LF	500	\$ 15.00	\$ 7,500.00	
3	Fog Seal ²	GAL	4,002	\$ 5.50	\$ 22,011.00	
4	HMAC Full Depth Base Repair	SY	76	\$ 140.00	\$ 10,640.00	
5	Traffic Control	LS	1	\$15,000.00	\$ 15,000.00	
6	Mobilization, Bonds, Insurance	LS	1	\$20,000.00	\$ 20,000.00	
7	Owner's Allowance	LS	1	\$15,000.00	\$ 15,000.00	
8	Herbicide Treatment Pavement Edges, Structures, Fixtures	¹ MI	25.40	\$ 3,000.00	\$ 76,200.00	
Total Amount						\$ 324,806.00

Note 1: Unit of measurement in centerline miles (MI). Includes both edges of pavement and both sides of street.

Note 2: Fog Seal quantity based on estimated application rate of 0.10 GAL/SY.

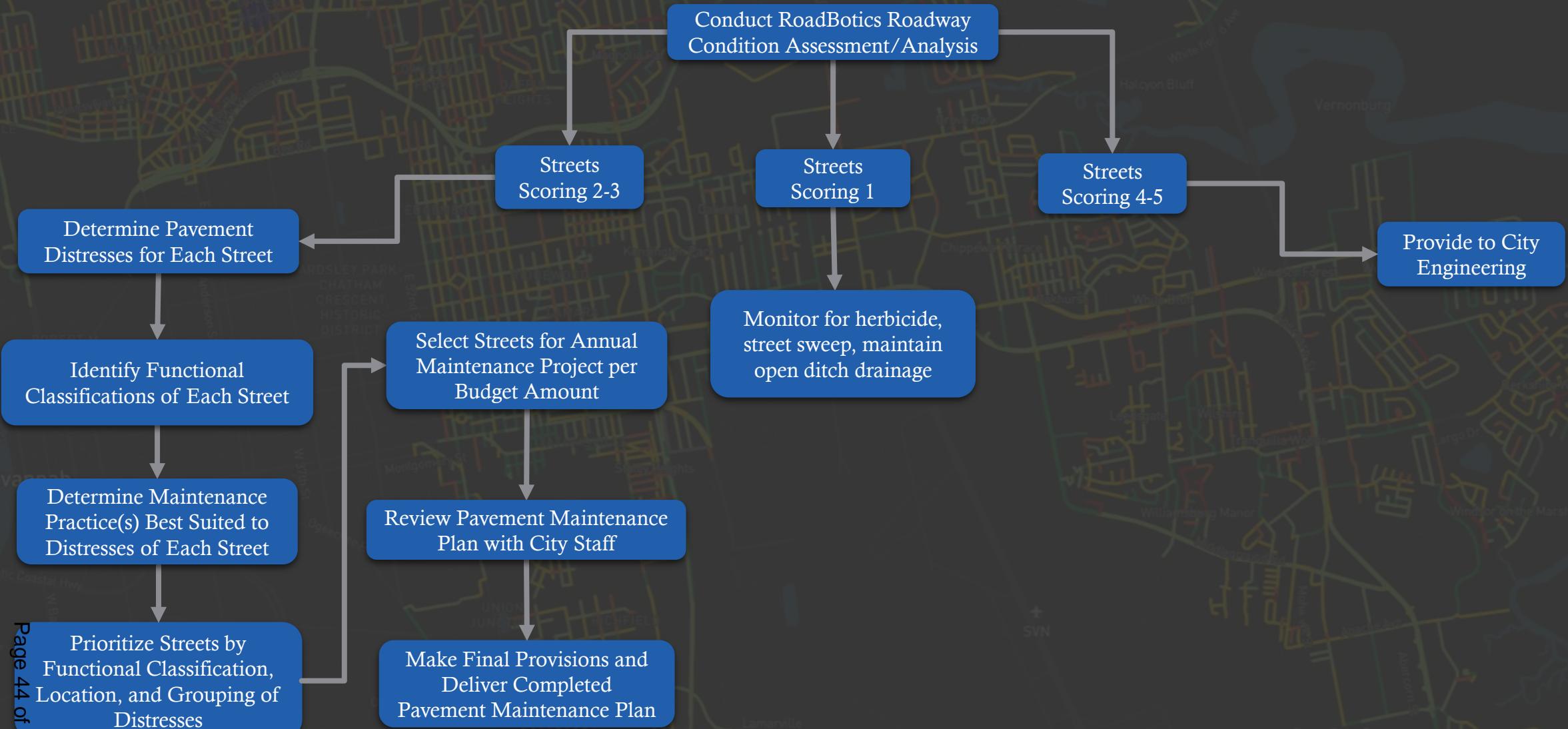
STREET MAINTENANCE PLANNING FY22 & BEYOND

Potholes



- Pothole locations can be extracted from RoadBotics as GPS coordinates to facilitate repair coordination and record keeping.
Yearly pothole program can be created and bid out to contractors.
City staff will continue emergency pothole repair .

Decision Process for Determining Annual Street Maintenance Plan



Street Maintenance Moving Forward

- The City owns and operates approximately 106.23 miles of paved streets
- About 86% of the 106.23 miles received a rounded condition assessment score between 1 and 3.
- Some isolated 4-5 segments within streets scoring 2 and 3 may receive a bad score due to localized issues. These can be addressed thru routine street maintenance program and does not require major rehab/reconstruction of the entire street.
- Streets scoring 2 and 3 (89.7 miles total) are eligible for street maintenance and preservation.
- The remaining roads scoring 4 to 5 and unpaved roads (approximately 16.5 miles), are considered poor candidates for maintenance and targeted instead for major reconstruction or rehabilitation. These shall be forwarded to Engineering for full evaluation.

Note: “Street” is usually “Street Segment” which challenges the planning approach.

Preventative Maintenance Targets

Score

1

2

3

Some 4-5

Miles

5.7

40.6

40.2

3.2

Total Miles 89.7

Preventative Maintenance Goals

- Treat/Address streets scoring a 2 or 3 on a regular cycle (every 2 to 10 years depending on technical criteria to prevent deterioration.
- Maintaining a regular schedule on 90 miles of streets will require treating/addressing at least 9 miles of streets each year.

Budget Question

In order to treat/address 9 miles of streets each year, what work needs to be accomplished in an average year?

Budget Answers

- This yearly funding could be broken out as follows:
 - A. Crack Sealing/Filling: 3 miles
 - B. Chip Seal: 3 miles
 - C. Hot-Mix Asphalt Overlay: 1 miles
 - D. Hot-Mix Asphalt Overlay w Edge Mill: 1 mile
 - E. Full-depth Hot-Mix Asphalt Repair: 0.5 mile
 - F. Full-depth Concrete Repair: 0.5 mile
- Total Miles = 9 miles

Note: Total miles in each category will change each year based on technical evaluation of individual streets

Future Budget Transition

Pavement Maintenance

Category	Future Year
Crack Sealing/Filling	200,000
Chip Seal	300,000
Hot-Mix Asphalt Overlay	500,000
Hot-Mix Asphalt Overlay w Edge Mill	500,000
Full-depth Hot-Mix Asphalt Repair	100,000
Full-depth Concrete Repair	100,000
Total	1,700,000

Note: "Comparable FY21 expenditures \$400,000

Additional Budget

Pavement Maintenance

Category	Future Year
Herbicide Edge Treatment	75,000
Ditch Cleaning and Regrading	175,000
Pothole Repair	100,000
Sidewalk Repairs & Maintenance	75,000
Stripping & Marking	20,000
ROW Mowing	100,000
TxDOT ROW Mowing	100,000
Trash Pickup	25,000
Tree Trimming	50,000
Total	700,000

Note: "Comparable FY21 expenditures \$ 364,500

Challenges

- 1) Utilizing RoadBotics/Decision Matrix annually to accomplish the most work as efficiently as possible.
- 2) Making and holding fast on the budget commitment necessary for improved streets.
- 3) Utilizing annual technical assessment data to guide street decisions in the following budget year.

Next Steps

- 1) Bid now current selected FY2021 Street Maintenance (\$325,000)
- 2) Use the Data to identify and complete some “wins” on very short segments which ranked a “5” which can be addressed as localized pavement collapse selections repairs.
- 3) Construct Apache Trail reconstruction project
- 4) Continue Engineering efforts on North Alley, Temple , Blanche, and South Alley
- 5) SPI/RoadBotics year two Pavement Assessment in May of 2021
- 6) Provide Recommendations during Annual Budget Retreat for enhanced FY22 Streets Program



Thank You