



Bond Road Study

CANDIDATE ROADS FOR RECONSTRUCTION WITH BOND MONEY

County Growth



Since 2000, Collin County has experienced phenomenal growth, roughly doubling its population in the past two decades

Impact of Growth

- ▶ Numerous subdivisions under construction
- ▶ Surging vehicle traffic
- ▶ Increased heavy truck traffic
- ▶ Additional “city work” requests
- ▶ Striping and signage requirements

Impact on County Roads

- ▶ Accelerate the rate of deterioration of county roads
- ▶ Cause edge cracking, shoving, and base failure
- ▶ Roads suffering significant distress will require reconstruction with reinforced base

Candidate Roads

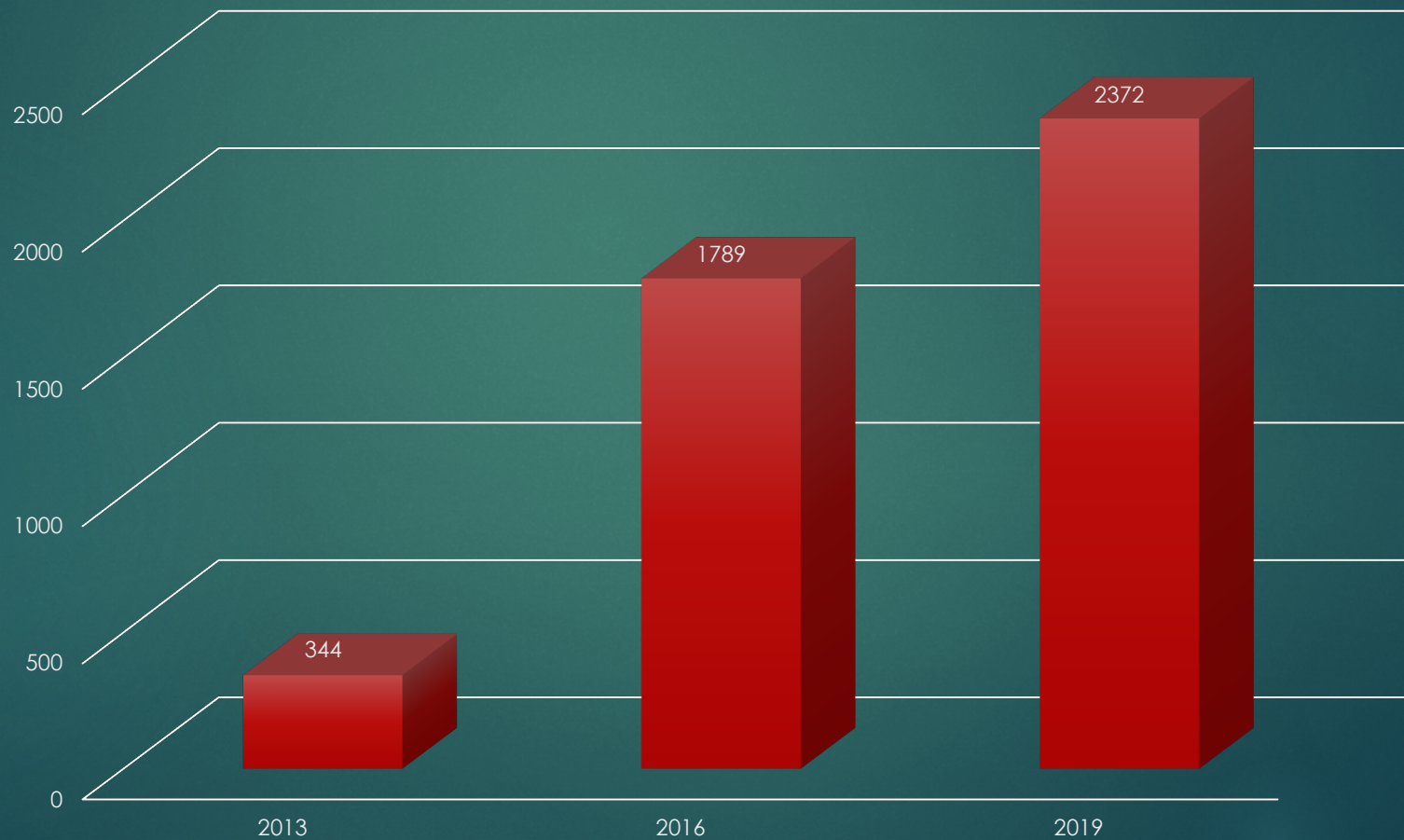
- ▶ Public Works identified 5 roads which should be excellent candidates for reconstruction with bond money
- ▶ All five roads are major arterials that connect with state maintained thoroughfares and have experienced substantial traffic growth over the past several years

Traffic Studies

| Road | Vehicles Per Day | Date of Last Study |
|-------|------------------|--------------------|
| CR398 | 731 | Dec 2017 |
| CR557 | 2372 | Oct 2019 |
| CR407 | 5526 | Oct 2022 |
| CR168 | 831 | Jan 2018 |
| CR412 | 1994 | Jun 2020 |

County Road 557

Vehicles per Day

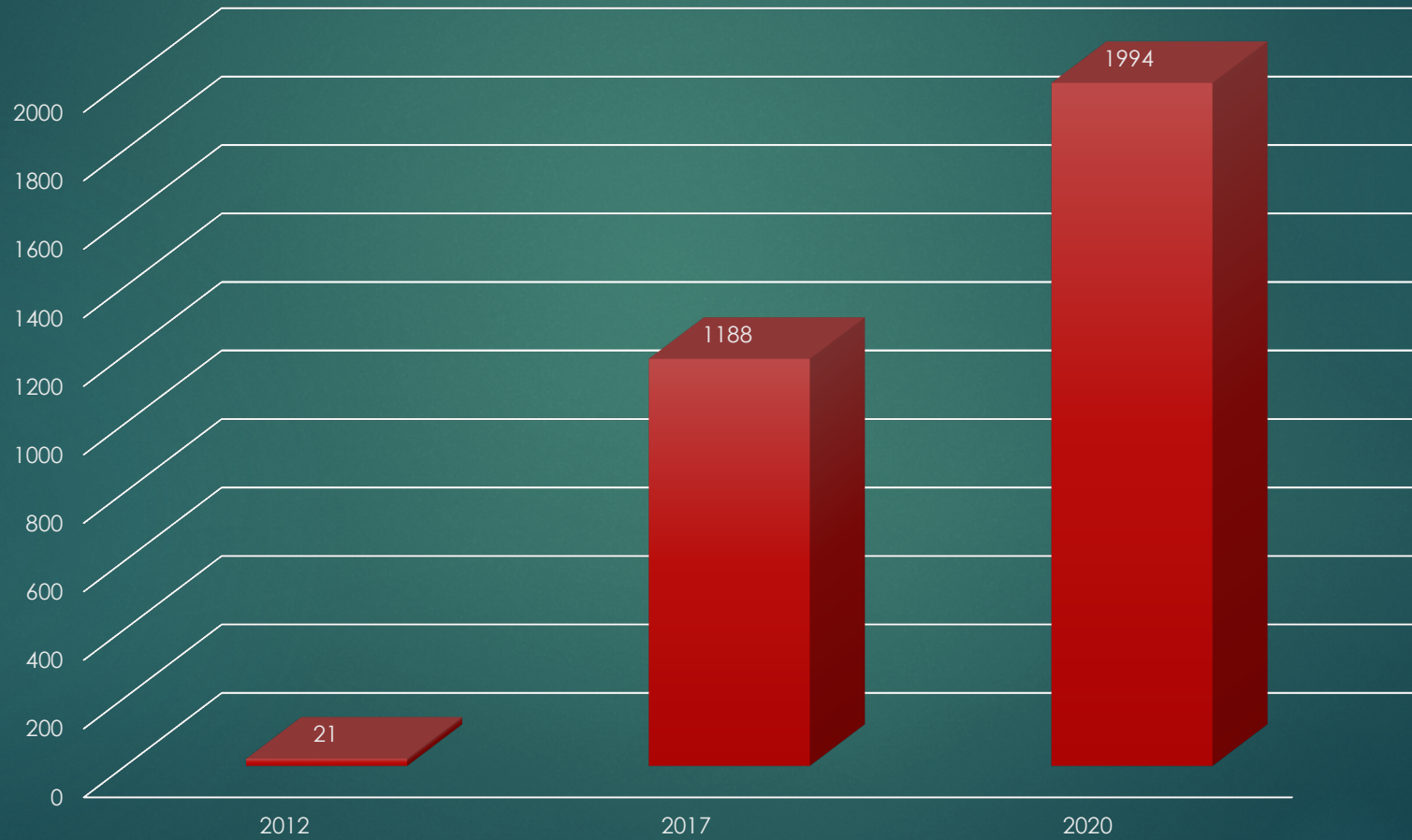






County Road 412

Vehicles per Day

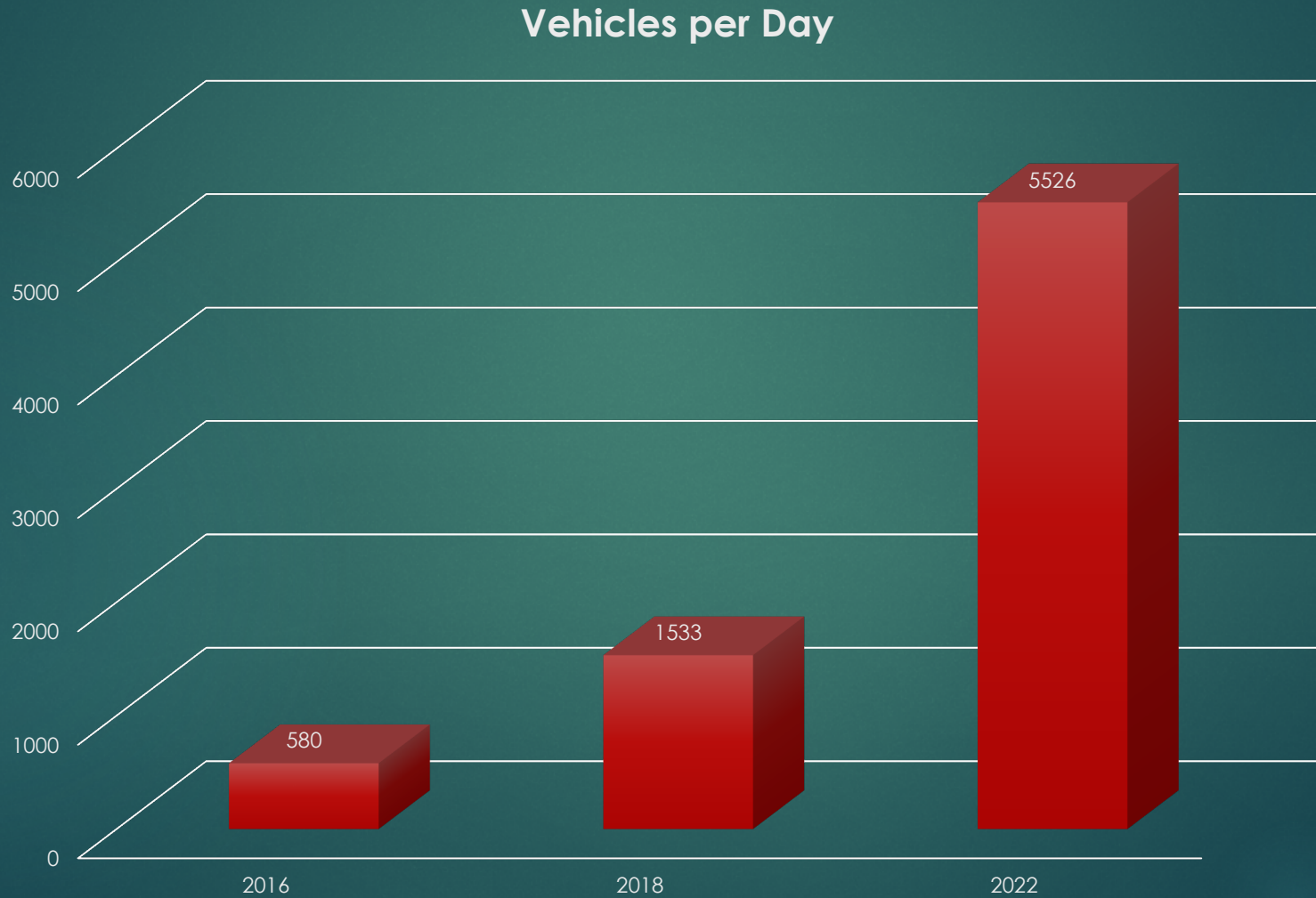


CR 412/CR1116





County Road 407

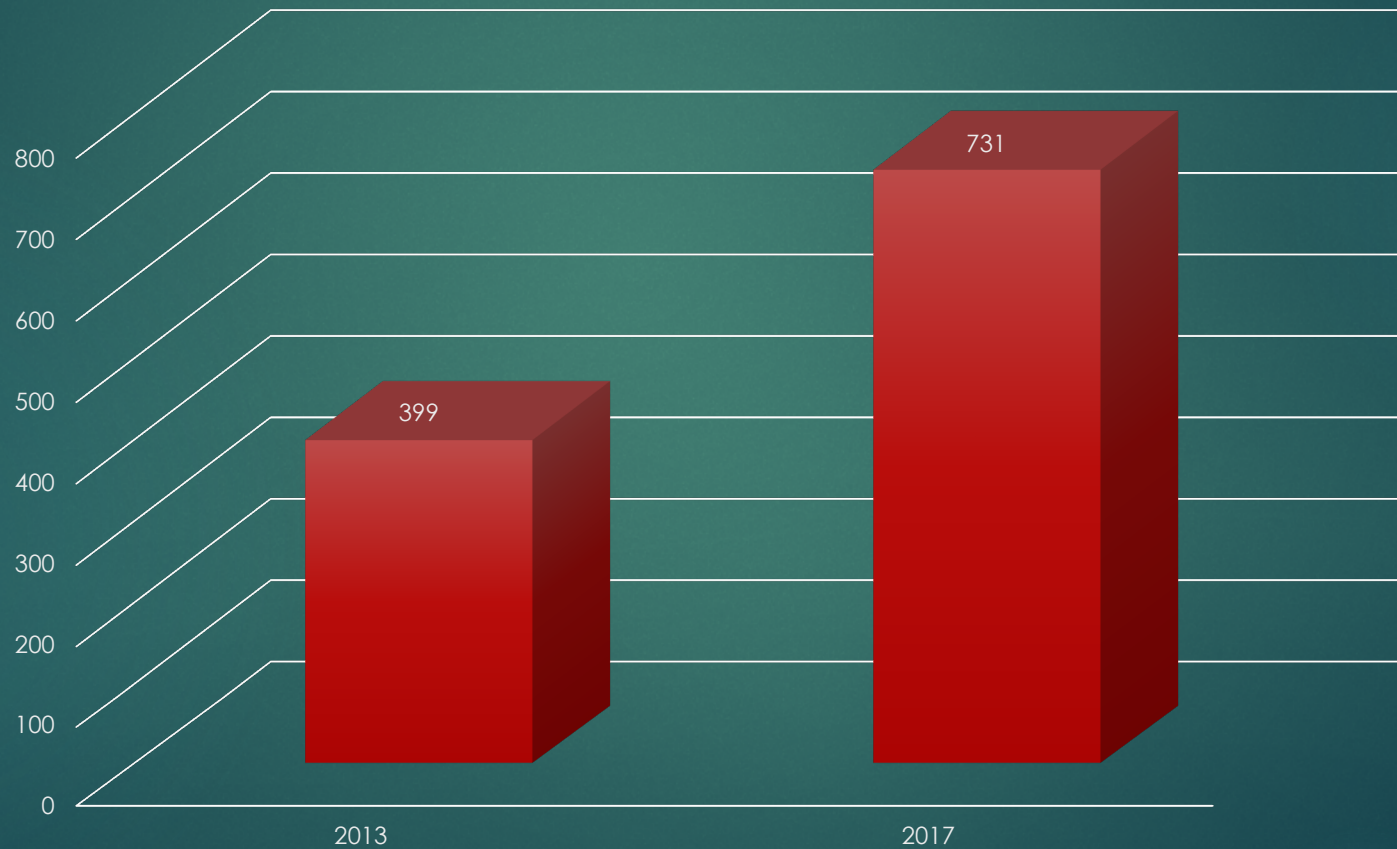


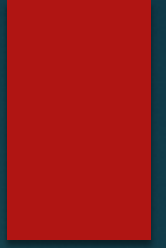




County Road 398

Vehicles per Day

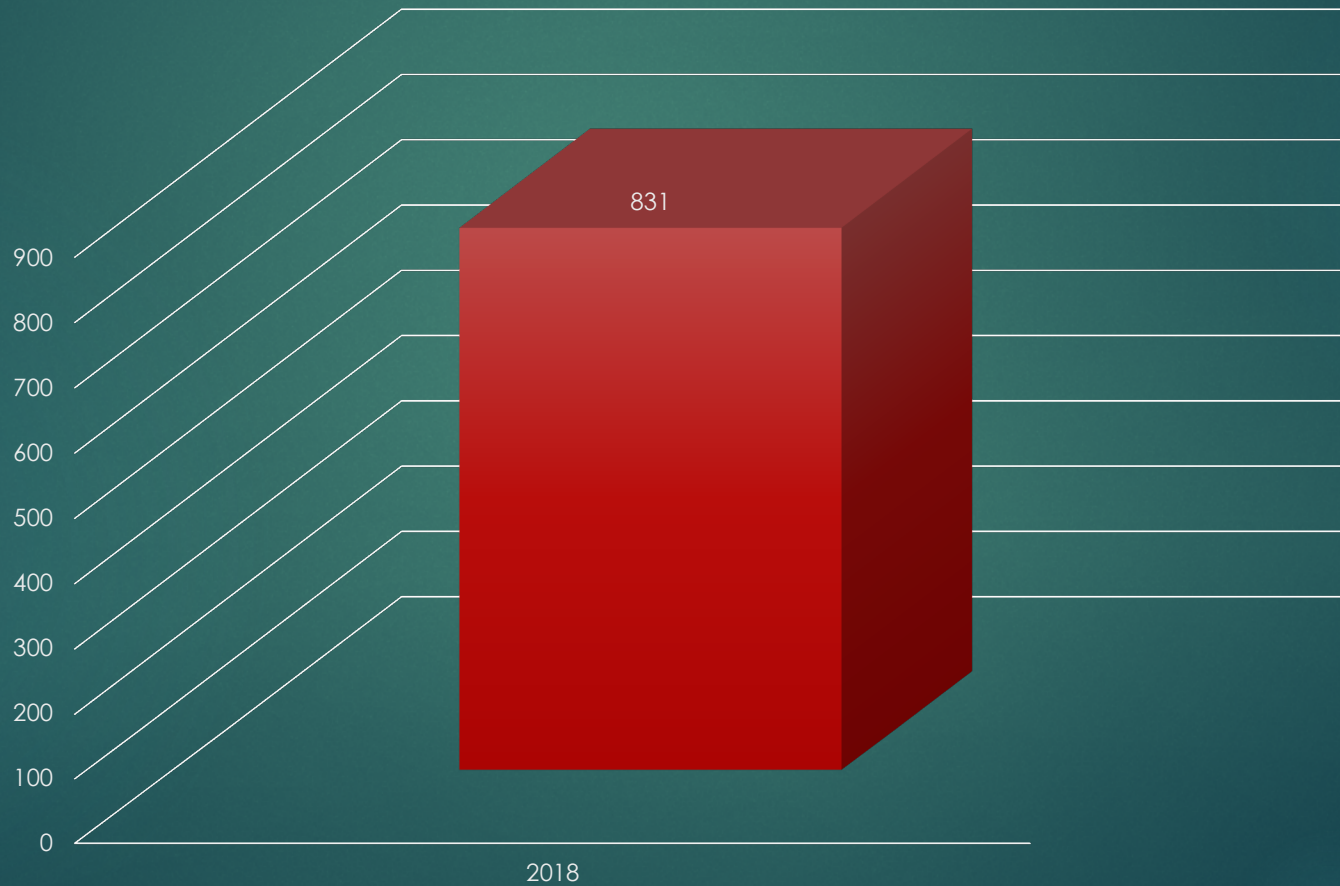






County Road 168

Vehicles per Day

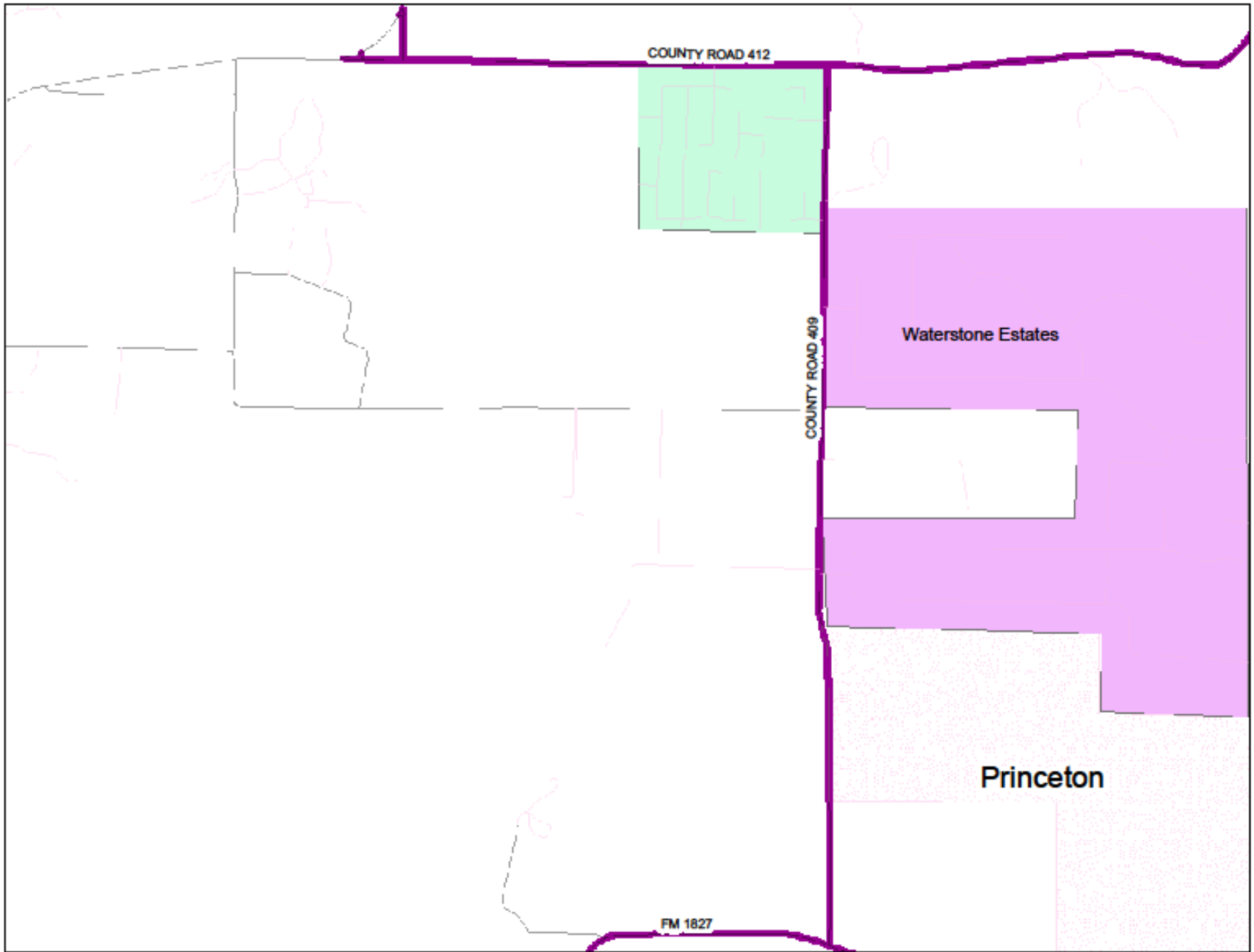






Infrastructure Impact

- ▶ Public Works has further determined a host of county roads that have suffered due to extensive development occurring in the immediate vicinity, typically related to subdivision construction.
 - ▶ CR409
 - ▶ CR471
 - ▶ CR437
 - ▶ CR439
 - ▶ CR469
 - ▶ CR645
 - ▶ CR646



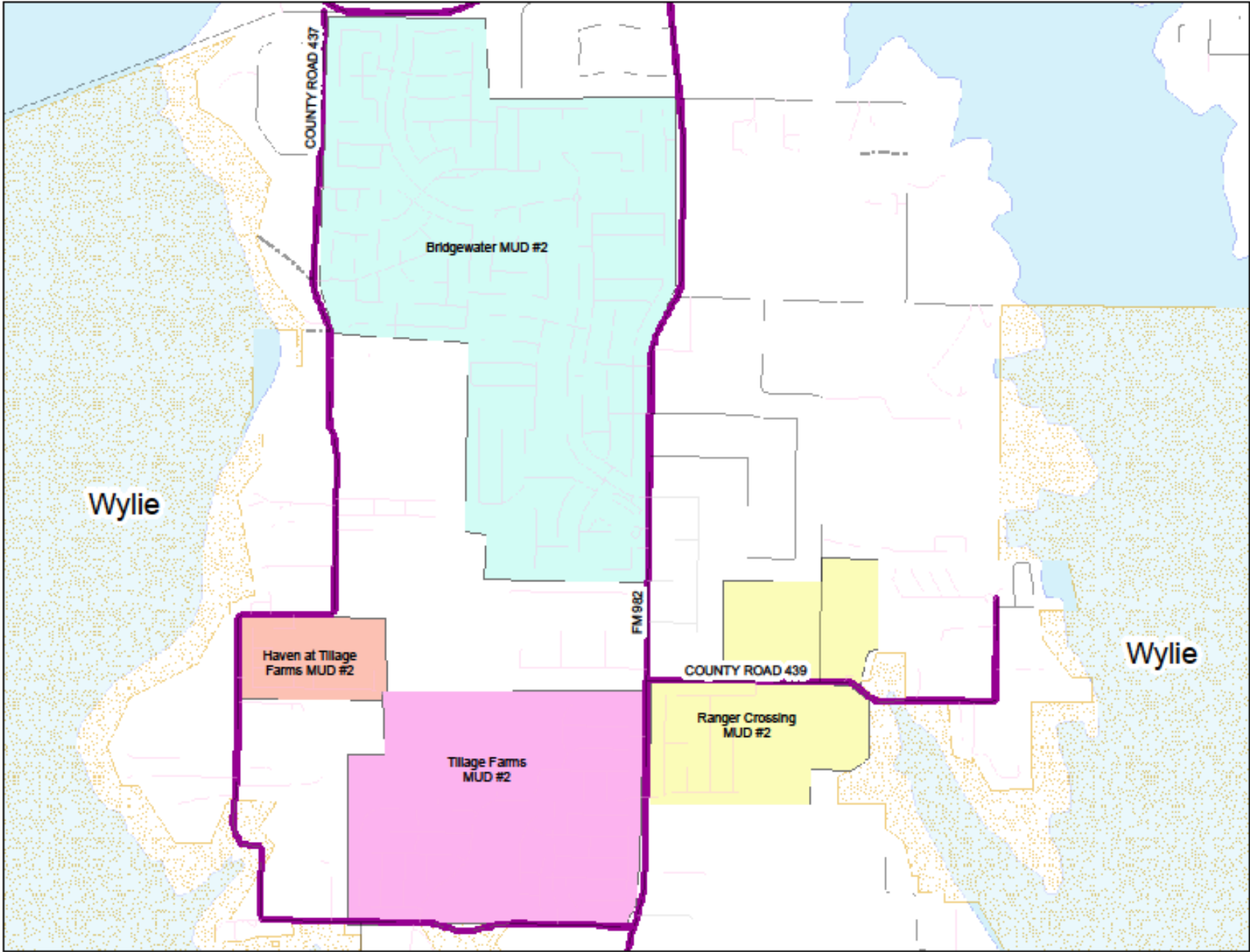
COUNTY ROAD 412

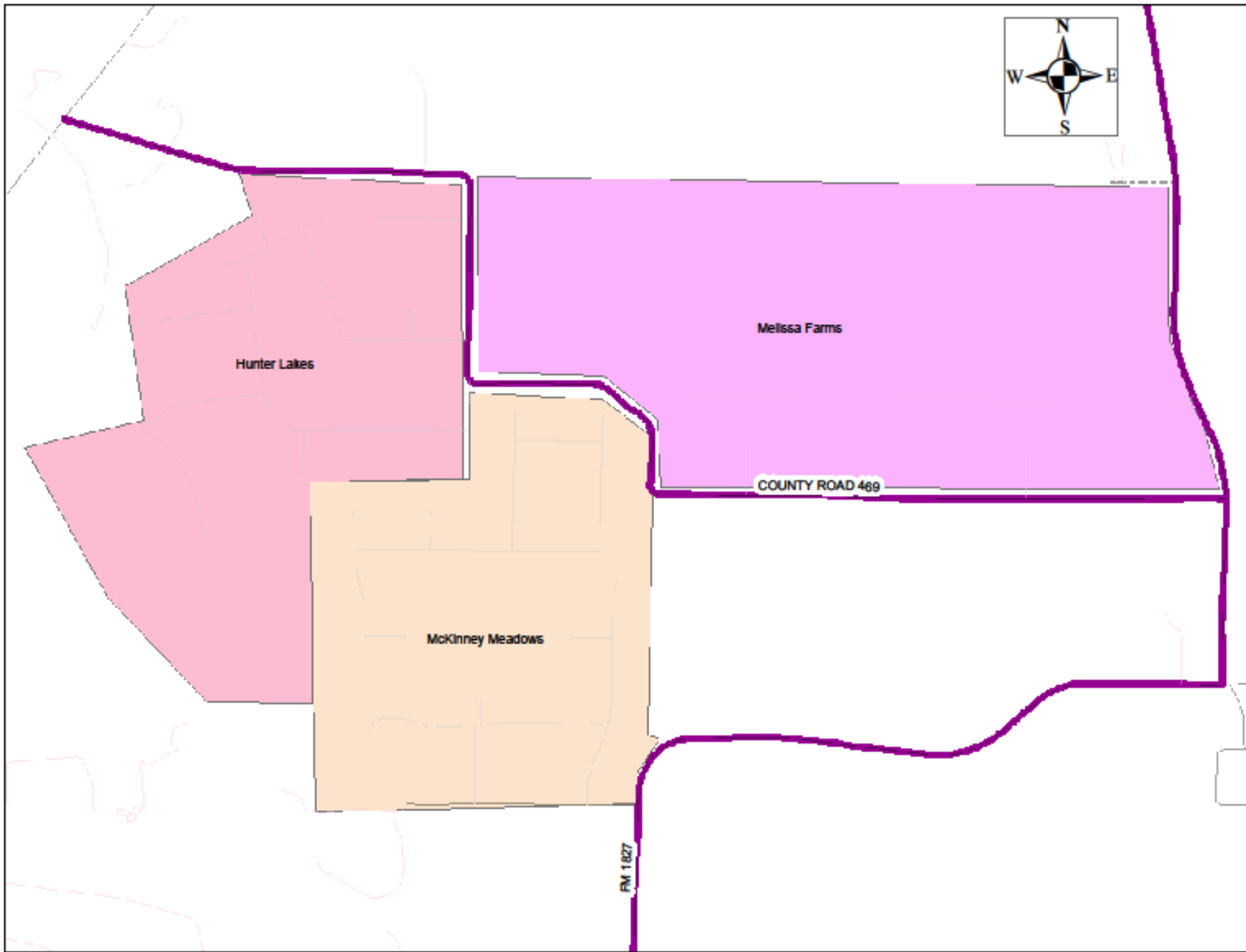
COUNTY ROAD 409

Waterstone Estates

Princeton

FM 1827





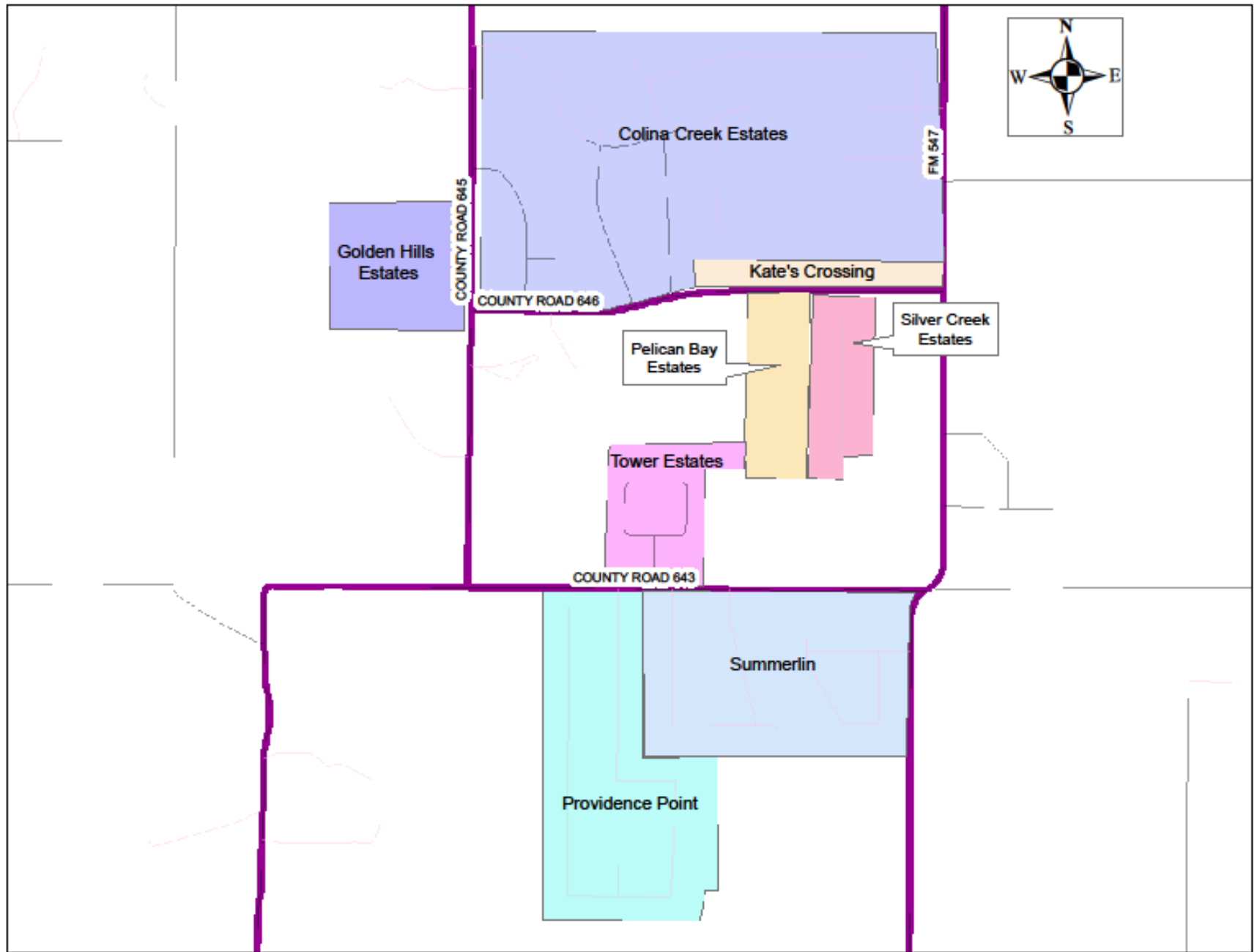
Hunter Lakes

Melissa Farms

McKinney Meadows

COUNTY ROAD 469

FM 1927



Highest ADT from Jan. 2018 to Feb. 2023

County maintained, no city shared boundaries

| Precinct | Name | ADT | Surface | TFP | NOTE |
|------------------|------------------|---------------|----------|-----|----------|
| 3 | W Outer Loop Rd | 9,829 | Concrete | | |
| 3 | County Road 392 | 2,556 | 2-Course | M6D | |
| 1 | County Road 166 | 2,246 | Concrete | P6D | |
| 3 | County Road 469 | 1,760 | 2-Course | P6D | |
| 1 | County Road 1214 | 1,510 | HMAC | | |
| 3 | County Road 1116 | 1,416 | 2-Course | M6D | |
| 3 | County Road 125 | 1,336 | 2-Course | M6D | West end |
| 2 | County Road 546 | 1,252 | 2-Course | | |
| 3 | County Road 412 | 1,188 | 2-Course | M4D | |
| 3 | County Road 448 | 1,179 | 2-Course | | |
| 3 | County Road 325 | 1,099 | 2-Course | | |
| 2 | Bozman Rd | 1,068 | HMAC | | |
| 3 | County Road 504 | 1,013 | 2-Course | | |
| 3 | County Road 496 | 985 | 2-Course | M4D | |
| 3 | County Road 559 | 961 | 2-Course | | |
| 3 | County Road 552 | 955 | 2-Course | | |
| 3 | Lone Star Rd | 927 | 2-Course | M4D | |
| 3 | County Road 561 | 884 | 2-Course | | |
| 2 | County Road 549 | 866 | 2-Course | P6D | |
| 3 | County Road 324 | 826 | 2-Course | | |
| 3 | County Road 553 | 793 | 2-Course | | |
| 3 | County Road 825 | 770 | 2-Course | M4D | |
| 2 | County Road 593 | 749 | 2-Course | M4D | |
| 3 | Old Valdasta Rd | 703 | 2-Course | | |
| 3 | County Road 550 | 690 | 2-Course | | |
| ADT Total | | 37,561 | | | |

Highest ADT from Jan. 2018 to Feb. 2023

| Precinct | Name | ADT | Surface | City Involved |
|------------------|---------------------|---------------|-----------------------------------|------------------------|
| 2 | Sachse Rd | 10,468 | 2-Course | Wylie |
| 1 | Rockhill Pkwy | 10,089 | 2-Course | Frisco |
| 3 | W Outer Loop Rd | 9,829 | Concrete | |
| 3 | Milrany Ln | 6,017 | Concrete | Melissa |
| 3 | County Road 407 | 5,526 | 2-Course | Princeton & McKinney |
| 1 | Lynn Stambaugh Pkwy | 3,582 | 2-Course | Celina |
| 3 | McIntyre Rd | 3,414 | 2-Course | McKinney |
| 3 | E Outer Loop Rd | 3,247 | Concrete | Anna |
| 3 | County Road 371 | 2,741 | 2-Course | Anna |
| 2 | Elm Dr | 2,664 | HMAC | Wylie |
| 3 | County Road 392 | 2,556 | 2-Course | |
| 2 | Kreymer Ln | 2,536 | 2-Course | Wylie |
| 3 | County Road 557 | 2,372 | 2-Course | Farmersville |
| 3 | County Road 375 | 2,366 | 2-Course | Van Alstyne |
| 3 | County Road 376 | 2,254 | 2-Course | Anna |
| 1 | County Road 166 | 2,246 | Concrete | |
| 3 | Taylor Blvd | 2,068 | 2-Course | Anna |
| 2 | Pleasant Valley Rd | 2,055 | 2-Course | Wylie |
| 2 | Dublin Rd | 2,044 | HMAC | Plano, Murphy & Parker |
| 1 | County Road 97 | 2,020 | 2-Course | Celina |
| 3 | E Hazelwood St | 1,865 | 2-Course | Princeton |
| 1 | County Road 55 | 1,784 | 2-Course | Celina |
| 1 | County Road 123 | 1,775 | 2-Course | McKinney |
| 3 | County Road 469 | 1,760 | 2-Course | |
| 2 | County Road 543 | 1,759 | 2-Course | Nevada |
| ADT Total | | 89,037 | 21 roads involve 13 Cities | |