Texas Department of Transportation

# DALLAS DISTRICT

James K. Selman, P.E., District Engineer

COLLIN COUNTY

DESIGN SCHEMATIC

FM 2478

WIDEN TWO-LANE RURAL HIGHWAY TO FOUR-LANE DIVIDED REALIGN INTERSECTION AT FM 1461; SIX-LANE ULTIMATE

PROJECT LENGTH 3.174 MILES

CSJ: Nos. 2351-01-017,ETC.
LIMITS: BEGIN AT FM 1461
TO NORTH OF FM 1461
LENGTH: 3.174 MILES

FUNCTIONAL CLASSIFICATION
MINOR ARTERIAL ROAD

DESIGN SPEED:
FM 2478 = 45 MPH
CR 853 • MODIEC WILSON CREEK TR = 30 MPH
CR 855 • MODIEC RIVER PROSPER TR = MODIEC
CR 857 • MODIEC BLOOMDALE RD = MODIEC
CR 858 • MODIEC RHEA WILLS CIR = MODIEC
FIRST ST = 45 MPH CHRISTIE FARMS BLVD = 35 MPH
WILMETH RD = 45 MPH FM 1461 = 45 MPH
CONNECTION TO EXISTING = 30 MPH

•MEETS OR IMPROVES EXISTING CONDITIONS

SCALE: HORIZONTAL 1 IN = 100 FT
VERTICAL 1 IN = 10 FT

ROLL 2 OF 2

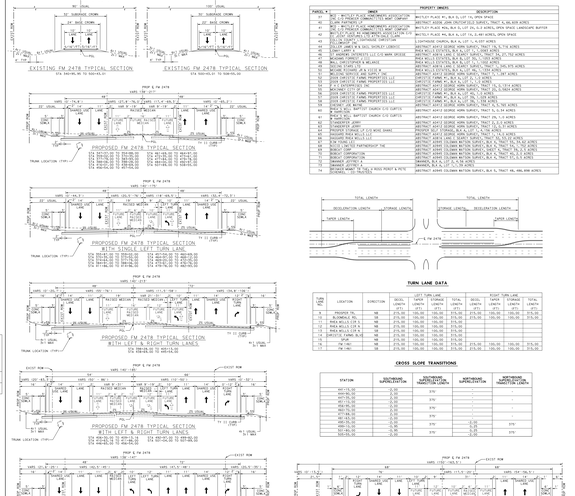
JUNE 2016

FM 2478 PROJECT DATA
CSJ: 2351-01-017
ROUTE: FM 2478
DISTRICT: DALLAS
COUNTY: COLLIN
TRANSPORTATION PROGRAM
CODE: 2014 TEXAS TRANSPORTATION PLAN

RECOMMENDED
APPROVAL:
DESIGN ENGINEER
KENNEDY CONSULTING
A JUNIT Company

RECOMMENDED
APPROVAL:
DISTRICT ENGINEER
DALLAS DISTRICT

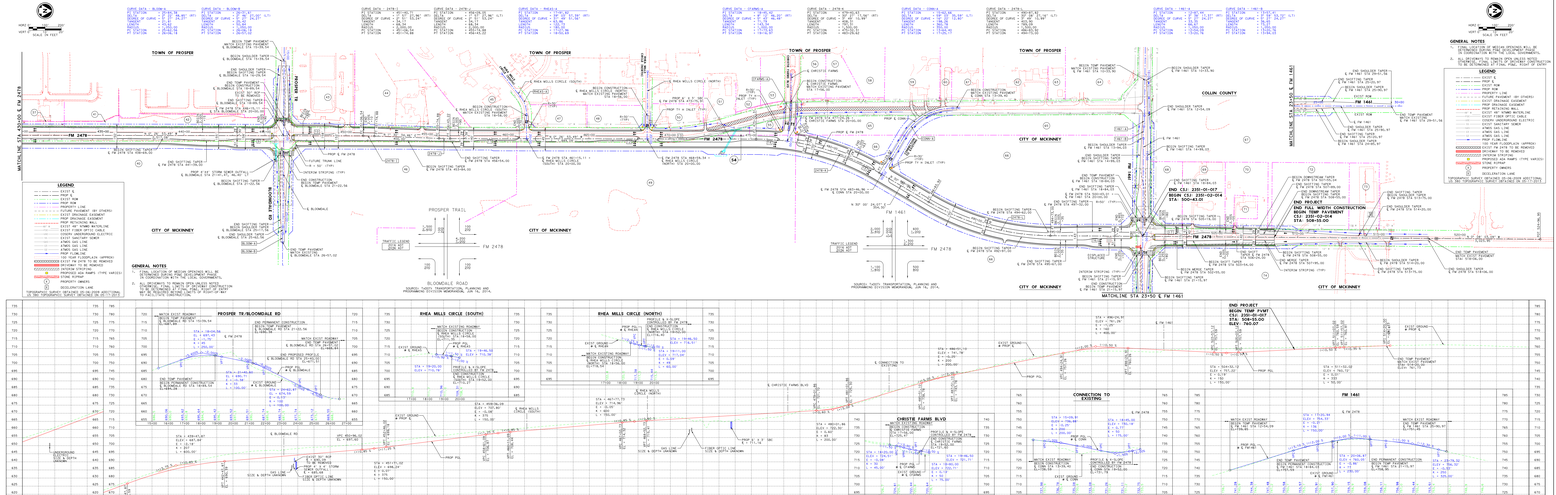
DATE SUBMITTED: 07/15/2016
DATE REVISED: 03/08/2016
DATE APPROVED: 09/07/2016
DATE REVISED: 05/05/2016
DATE REVISED: 06/29/2016
DATE REVISED: 08/29/2016




| PARCEL # | OWNER | PROPERTY OWNER | DESCRIPTION |
|---|---|---|---|
| 01 | MUD - BRAZOS RIVER AUTHORITY | BRAZOS RIVER AUTHORITY | BRAZOS RIVER AUTHORITY, TRACT 1, 0.0000 ACRES |
| 02 | MUD - BRAZOS RIVER AUTHORITY | BRAZOS RIVER AUTHORITY | BRAZOS RIVER AUTHORITY, TRACT 2, 0.0000 ACRES |
| 03 | PROSPER TR, LLC | BRITELY PLACE, LLC | BRITELY PLACE, BLK A, LOT 1X, OPEN SPACE |
| 04 | PROSPER TR, LLC | BRITELY PLACE, LLC | BRITELY PLACE, BLK A, LOT 2X, OPEN SPACE, LANDSCAPE BUFFER |
| 05 | PROSPER TR, LLC | BRITELY PLACE, LLC | BRITELY PLACE, BLK A, LOT 3X, 0.0000 ACRES, OPEN SPACE, LANDSCAPE BUFFER |
| 06 | BRITELY PLACE HOMEOWNERS ASSOCIATION, INC | BRITELY PLACE, LLC | BRITELY PLACE, BLK A, LOT 1X, 0.0000 ACRES, OPEN SPACE |
| 07 | BRITELY PLACE HOMEOWNERS ASSOCIATION, INC | BRITELY PLACE, LLC | BRITELY PLACE, BLK A, LOT 2X, 0.0000 ACRES, OPEN SPACE |
| 08 | COLLIN COUNTY | COLLIN COUNTY | COMMON DOMAIN, BLK A, LOT 1, 0.0000 ACRES |
| 09 | COLLIN COUNTY | COLLIN COUNTY | COMMON DOMAIN, BLK A, LOT 2, 0.0000 ACRES |
| 10 | COLLIN COUNTY | COLLIN COUNTY | COMMON DOMAIN, BLK A, LOT 3, 0.0000 ACRES |
| 11 | MUD - STANDARD PROPERTIES CLC-CCS MBDC DEVELOPER | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 1, 0.7700 ACRES | |
| 12 | MUD - STANDARD PROPERTIES CLC-CCS MBDC DEVELOPER | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 2, 27.7400 ACRES | |
| 13 | MUDDAR CORPORATION | RHEA WILLS ESTATES, BLK A, LOT 1, 0.0000 ACRES | |
| 14 | MUDDAR CORPORATION & MELANIE | RHEA WILLS ESTATES, BLK A, LOT 2, 0.0000 ACRES | |
| 15 | MELISSA DENISE & JAMES | RHEA WILLS ESTATES, BLK A, LOT 3, 0.0000 ACRES | |
| 16 | MELISSA DENISE & JAMES | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 1, 1.2867 ACRES | |
| 17 | MELISSA DENISE & JAMES | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 2, 0.0000 ACRES | |
| 18 | MELISSA DENISE & JAMES | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 3, 0.0000 ACRES | |
| 19 | MELISSA DENISE & JAMES | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 4, 0.0000 ACRES | |
| 20 | BRIDGEWATER LLC | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 1, 0.0000 ACRES | |
| 21 | BRIDGEWATER LLC | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 2, 0.0000 ACRES | |
| 22 | CHRISTIE FARMS PROPERTIES LLC | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 1, 0.0000 ACRES | |
| 23 | CHRISTIE FARMS PROPERTIES LLC | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 2, 0.0000 ACRES | |
| 24 | CHRISTIE FARMS PROPERTIES LLC | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 3, 0.0000 ACRES | |
| 25 | CHRISTIE FARMS PROPERTIES LLC | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 4, 0.0000 ACRES | |
| 26 | BRAZOS RIVER AUTHORITY | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 1, 0.0000 ACRES | |
| 27 | BRAZOS RIVER AUTHORITY | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 2, 0.0000 ACRES | |
| 28 | BRAZOS RIVER AUTHORITY | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 3, 0.0000 ACRES | |
| 29 | BRAZOS RIVER AUTHORITY | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 4, 0.0000 ACRES | |
| 30 | BRAZOS RIVER AUTHORITY | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 5, 0.0000 ACRES | |
| 31 | BRAZOS RIVER AUTHORITY | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 6, 0.0000 ACRES | |
| 32 | PROSPER STORAGE LP C/O MOSS GRAND | PROSPER SELF STORAGE, BLK A, LOT 1, 0.0000 ACRES | |
| 33 | PROSPER STORAGE LP C/O MOSS GRAND | PROSPER SELF STORAGE, BLK A, LOT 2, 0.0000 ACRES | |
| 34 | BLUE FLAME LLC | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 1, 0.0000 ACRES | |
| 35 | BLUE FLAME LLC | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 2, 0.0000 ACRES | |
| 36 | BLUE FLAME LLC | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 3, 0.0000 ACRES | |
| 37 | CHRISTIE FARMS PARTNERSHIP, THE | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 1, 0.0000 ACRES | |
| 38 | CHRISTIE FARMS PARTNERSHIP, THE | ABSTRACT A0412 GEORGE HORN SURVEY, TRACT 2, 0.0000 ACRES | |
| 39 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 1, 0.0000 ACRES | |
| 40 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 2, 0.0000 ACRES | |
| 41 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 3, 0.0000 ACRES | |
| 42 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 4, 0.0000 ACRES | |
| 43 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 5, 0.0000 ACRES | |
| 44 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 6, 0.0000 ACRES | |
| 45 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 7, 0.0000 ACRES | |
| 46 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 8, 0.0000 ACRES | |
| 47 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 9, 0.0000 ACRES | |
| 48 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 10, 0.0000 ACRES | |
| 49 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 11, 0.0000 ACRES | |
| 50 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 12, 0.0000 ACRES | |
| 51 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 13, 0.0000 ACRES | |
| 52 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 14, 0.0000 ACRES | |
| 53 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 15, 0.0000 ACRES | |
| 54 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 16, 0.0000 ACRES | |
| 55 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 17, 0.0000 ACRES | |
| 56 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 18, 0.0000 ACRES | |
| 57 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 19, 0.0000 ACRES | |
| 58 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 20, 0.0000 ACRES | |
| 59 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 21, 0.0000 ACRES | |
| 60 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 22, 0.0000 ACRES | |
| 61 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 23, 0.0000 ACRES | |
| 62 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 24, 0.0000 ACRES | |
| 63 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 25, 0.0000 ACRES | |
| 64 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 26, 0.0000 ACRES | |
| 65 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 27, 0.0000 ACRES | |
| 66 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 28, 0.0000 ACRES | |
| 67 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 29, 0.0000 ACRES | |
| 68 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 30, 0.0000 ACRES | |
| 69 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 31, 0.0000 ACRES | |
| 70 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 32, 0.0000 ACRES | |
| 71 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 33, 0.0000 ACRES | |
| 72 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 34, 0.0000 ACRES | |
| 73 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 35, 0.0000 ACRES | |
| 74 | DENALI CORPORATION | ABSTRACT A0412 COLEMAN WATSON SURVEY, BLK A, TRACT 36, 0.0000 ACRES | |

| LINE | LOCATION | DIRECTION | DEVEL. LANE | DEVEL. TAPER | DEVEL. STORAGE | TOTAL | EXIST. LANE | EXIST. TAPER | EXIST. STORAGE | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PROSPER TR | NB | 275.00 | 105.00 | 105.00 | 575.00 | 275.00 | 105.00 | 105.00 | 575.00 |
| 2 | PROSPER TR | SB | 275.00 | 105.00 | 105.00 | 575.00 | 275.00 | 105.00 | 105.00 | 575.00 |
| 3 | RHEA WILLS CIR N | NB | 275.00 | 105.00 | 105.00 | 575.00 | | | | |
| 4 | RHEA WILLS CIR N | SB | 275.00 | 105.00 | 105.00 | 575.00 | | | | |
| 5 | RHEA WILLS CIR S | NB | 275.00 | 105.00 | 105.00 | 575.00 | | | | |
| 6 | RHEA WILLS CIR S | SB | 275.00 | 105.00 | 105.00 | 575.00 | | | | |
| 7 | WILMETH RD | NB | 275.00 | 105.00 | 105.00 | 575.00 | 275.00 | 105.00 | 105.00 | 575.00 |
| 8 | WILMETH RD | SB | 275.00 | 105.00 | 105.00 | 575.00 | 275.00 | 105.00 | 105.00 | 575.00 |

| STATION | SOUTHBOUND SUPERELEVATION | SOUTHBOUND NORTH/SOUTH SUPERELEVATION | NORTHBOUND SUPERELEVATION | NORTHBOUND NORTH/SOUTH SUPERELEVATION |
|---|---|---|---|---|
| 447+00.00 | 0.00 | 0% | | |
| 449+00.00 | 0.00 | 0% | | |
| 450+00.00 | 0.00 | 2% | | |
| 451+00.00 | 0.00 | 2% | | |
| 452+00.00 | 0.00 | 2% | | |
| 453+00.00 | 0.00 | 2% | | |
| 454+00.00 | 0.00 | 2% | | |
| 455+00.00 | 0.00 | 2% | 0.00 | 0% |
| 456+00.00 | 0.00 | 2% | 0.00 | 0% |
| 457+00.00 | 0.00 | 2% | 0.00 | 0% |
| 458+00.00 | 0.00 | 2% | 0.00 | 0% |




Texas Department of Transportation

# DALLAS DISTRICT

James K. Selman, P.E., District Engineer

COLLIN COUNTY

DESIGN SCHEMATIC

FM 2478

WIDEN TWO-LANE RURAL HIGHWAY TO FOUR-LANE DIVIDED REALIGN INTERSECTION AT FM 1461; SIX-LANE ULTIMATE

PROJECT LENGTH 3.174 MILES

CSJ: Nos. 2351-01-017,ETC.
LIMITS: BEGIN AT FM 1461
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SCALE: HORIZONTAL 1 IN = 100 FT
VERTICAL 1 IN = 10 FT

ROLL 2 OF 2

JUNE 2016

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CSJ: 2351-01-017
ROUTE: FM 2478
DISTRICT: DALLAS
COUNTY: COLLIN
TRANSPORTATION PROGRAM
CODE: 2014 TEXAS TRANSPORTATION PLAN

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