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: 0351-01-017,ETC.
LIMITS: FM 2478
1.0 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 933 • MODIEC MILLER CREEK TR = MODIEC
CR 857 • MODIEC BLOOMDALE RD = MODIEC
CR 858 • MODIEC RHEA MILLS 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 IN = 10 FT

ROLL 1 OF 2

JUNE 2016

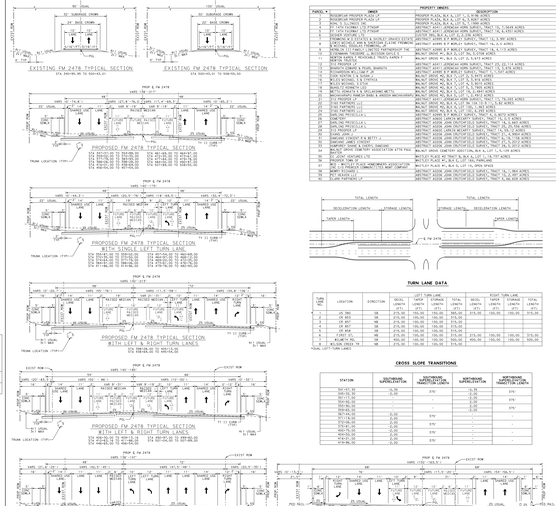
FM 2478 TRAFFIC DATA
ADT (2014) = 8,400
ADT (2040) = 15,000
DHV (2040) = 1,500
DIRECTIONAL DISTRIBUTION = 60%
TRUCK PERCENTAGE = 2%

DESIGN TRAFFIC
TRANSPORTATION PLANNING AND PROGRAMMING DIVISION

PRELIMINARY
NOT FOR CONSTRUCTION, BIDDING OR PERMITS

DATE SUBMITTED: 07/15/2016
DATE REVISED: 03/08/2018
DATE APPROVED: 09/07/2018
DATE REVISED: 05/03/2019
DATE REVISED: 06/08/2020
REMOVE CONNECTION TRIANGULAR ARC

KENNEDY CONSULTING
A JacobS Company



PARCEL #	OWNER	PROPERTY OWNER	DESCRIPTION
1	BOUNDARY LINE	BOUNDARY LINE	BOUNDARY LINE
2	WOODMONT PROSPER PLACE LP	PROSPER PLACE, BLK A, LOT 1, 5.3681 ACRES	
3	WOODMONT PROSPER PLACE LP	PROSPER PLACE, BLK A, LOT 2, 8.0000 ACRES	
4	CITY OF PROSPER	PROSPER PLACE, BLK A, LOT 3, 1.7649 ACRES	
5	CITY OF PROSPER	ABSTRACT 1077, JENKINS SARH SURVEY, TRACT 16, 4.5721 ACRES	
6	CITY OF PROSPER	ABSTRACT 1077, JENKINS SARH SURVEY, TRACT 16, 0.9000 ACRES	
7	FRANCIS, LLC	ABSTRACT 1077, JENKINS SARH SURVEY, TRACT 16, 0.9000 ACRES	
8	MICHAEL, STEVEN & STEPHANIE	ABSTRACT 1077, JENKINS SARH SURVEY, TRACT 16, 0.9000 ACRES	
9	MICHAEL, STEVEN & STEPHANIE	ABSTRACT 1077, JENKINS SARH SURVEY, TRACT 16, 0.9000 ACRES	
10	CITY OF PROSPER	ABSTRACT 1077, JENKINS SARH SURVEY, TRACT 16, 0.9000 ACRES	
11	HUNTER, DAVID & STEPHANIE	WALNUT GROVE #1, BLK D, LOT 2, 0.4419 ACRES	
12	HUNTER, DAVID	WALNUT GROVE #1, BLK D, LOT 3, 0.4419 ACRES	
13	HUNTER, DAVID	WALNUT GROVE #1, BLK D, LOT 4, 0.4419 ACRES	
14	BLOOMDALE, LLC	ABSTRACT 1077, JENKINS SARH SURVEY, TRACT 15, 0.1114 ACRES	
15	BLOOMDALE, LLC	ABSTRACT 1077, JENKINS SARH SURVEY, TRACT 15, 1.0000 ACRES	
16	BLOOMDALE, LLC	ABSTRACT 1077, JENKINS SARH SURVEY, TRACT 15, 1.0000 ACRES	
17	BLOOMDALE, LLC	ABSTRACT 1077, JENKINS SARH SURVEY, TRACT 15, 1.0000 ACRES	
18	MAYO, ROBERT & ANN	WALNUT GROVE #1, BLK A, LOT 1, 0.7500 ACRES	
19	MAYO, ROBERT & ANN	WALNUT GROVE #1, BLK A, LOT 2, 0.7500 ACRES	
20	MAYO, ROBERT & ANN	WALNUT GROVE #1, BLK A, LOT 3, 0.7500 ACRES	
21	WALNUT GROVE UNITED METHODIST CHURCH	WALNUT GROVE #1, BLK A, LOT 4, 1.7500 ACRES	
22	WALNUT GROVE UNITED METHODIST CHURCH	WALNUT GROVE #1, BLK A, LOT 5, 1.7500 ACRES	
23	CITY OF PROSPER	WALNUT GROVE #1, BLK A, LOT 6, 1.7500 ACRES	
24	CITY OF PROSPER	WALNUT GROVE #1, BLK A, LOT 7, 1.7500 ACRES	
25	CITY OF PROSPER	WALNUT GROVE #1, BLK A, LOT 8, 1.7500 ACRES	
26	CITY OF PROSPER	WALNUT GROVE #1, BLK A, LOT 9, 1.7500 ACRES	
27	CITY OF PROSPER	WALNUT GROVE #1, BLK A, LOT 10, 1.7500 ACRES	
28	CITY OF PROSPER	WALNUT GROVE #1, BLK A, LOT 11, 1.7500 ACRES	
29	CITY OF PROSPER	WALNUT GROVE #1, BLK A, LOT 12, 1.7500 ACRES	
30	CITY OF PROSPER	WALNUT GROVE #1, BLK A, LOT 13, 1.7500 ACRES	
31	CITY OF PROSPER	ABSTRACT 1077, JENKINS SARH SURVEY, TRACT 14, 0.9000 ACRES	
32	CITY OF PROSPER	ABSTRACT 1077, JENKINS SARH SURVEY, TRACT 14, 0.9000 ACRES	
33	CITY OF PROSPER	ABSTRACT 1077, JENKINS SARH SURVEY, TRACT 14, 0.9000 ACRES	

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DALLAS DISTRICT

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

COLLIN COUNTY

DESIGN SCHEMATIC

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ROLL 2 OF 2

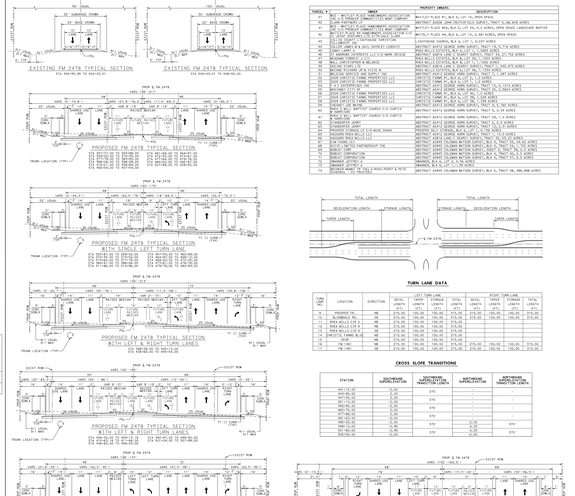
JUNE 2016

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

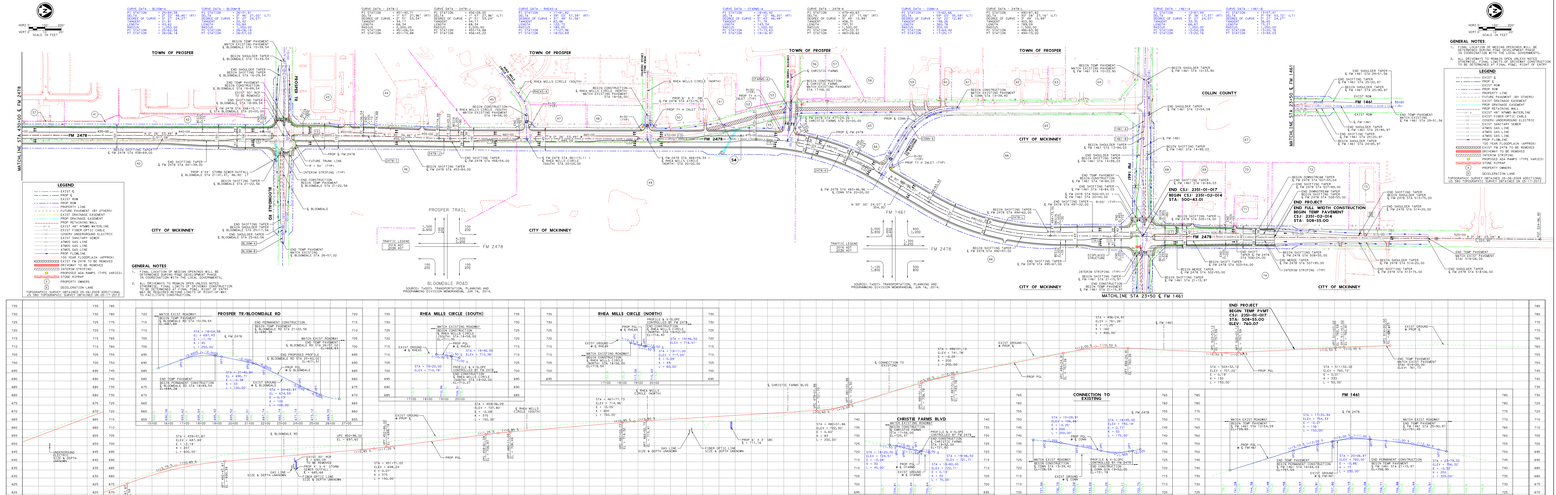
DATE SUBMITTED: 07/15/2016
DATE REVISED: 03/08/2016
DATE APPROVED: 09/07/2016
DATE REVISED: 05/05/2016
DATE REVISED: 06/29/2016
DATE REVISED: 08/29/2016



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%



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DALLAS DISTRICT

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

COLLIN COUNTY

DESIGN SCHEMATIC

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ROLL 2 OF 2

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COUNTY: COLLIN
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