Texas Department of Transportation

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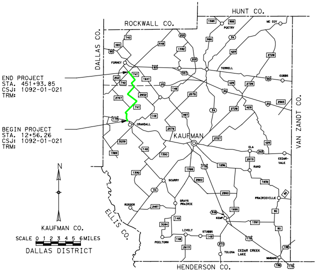
DALLAS DISTRICT
DESIGN SCHEMATIC

MOHAMED K. BUR, P.E., DISTRICT ENGINEER
KAUFMAN COUNTY
FM 741
PROJECT LIMIT: FROM US 175 TO FM 548
CSJ: 1092-01-021
FM 741 FUNCTIONAL CLASS: URBAN PRINCIPAL ARTERIAL
DESIGN SPEED: 45 MPH FM 741
30 MPH CROSS STREETS
PROJECT LENGTH: 8.32 MILES
WIDEN 2 LANE ROADWAY TO 4 LANE DIVIDED


END PROJECT
STA. 451+93.85
CSJ: 1092-01-021
TRM:
BEGIN PROJECT
STA. 12+56.26
CSJ: 1092-01-021
TRM:
HUNT CO.
ROCKWALL CO.
DALLAS CO.
VAN ZANDT CO.
ELLIS CO.
HENDERSON CO.
FORNEY
KAUFMAN
TERRELL
CRANDALL
SCURRY
ROSSER
GRAYS PRAIRIE
KEMP
PEELTOWN
LIVELY
STUBBS
TOLOSA
CEDAR CREEK LAKE
MABANK
PRAIRIEVILLE
OLA
RAND
COBBS
CEDAR-VALE
POETRY
MC COY
N
KAUFMAN CO.
SCALE 0 1 2 3 4 5 6MILES
DALLAS DISTRICT

LOCATION MAP

DECEMBER 2022
SCALE: 1"=100'
ROLL 7 OF 7

SHEET INDEX

ROLL 1: PLAN AND PROFILE - BEGIN PROJECT TO STA 65+00
ROLL 2: PLAN AND PROFILE - STA 65+00 TO STA 130+00
ROLL 3: PLAN AND PROFILE - STA 130+00 TO STA 194+00
ROLL 4: PLAN AND PROFILE - STA 194+00 TO STA 259+00
ROLL 5: PLAN AND PROFILE - STA 259+00 TO STA 324+00
ROLL 6: PLAN AND PROFILE - STA 324+00 TO STA 390+00
ROLL 7: PLAN AND PROFILE - STA 390+00 TO END PROJECT

100% SCHEMATIC

THESE DOCUMENTS ARE FOR INTERIM REVIEW AND ARE NOT INTENDED FOR REGULATORY APPROVAL, PERMIT, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

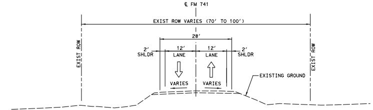
NAME	P.E. NO.	DATE
ROBERT DEAN AUSTIN	67596	12/1/2022

0' 50' 100' 200'
HORIZONTAL

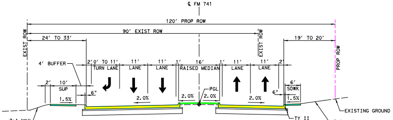
0' 5' 10' 20'
VERTICAL

GRAPHIC SCALES IN FEET

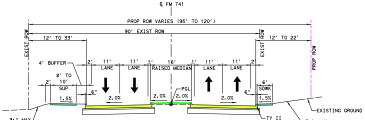
Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE FIRM REGISTRATION NO. 2614


℄ FM 741
EXIST ROW VARIES (70' TO 100')
28'
2' SHLDR
12' LANE
12' LANE
2' SHLDR
VARIES
VARIES
EXIST ROW
EXIST ROW
EXISTING GROUND

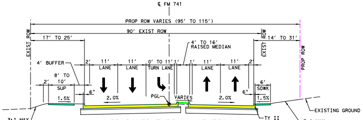
EXISTING TYPICAL SECTION
BEGIN PROJECT TO END PROJECT


℄ FM 741
120' PROP ROW
90' EXIST ROW
24' TO 33'
19' TO 20'
EXIST ROW
EXIST ROW
PROP ROW
4' BUFFER
2'
0' TO 11' TURN LANE
11' LANE
11' LANE
1'
16' RAISED MEDIAN
1'
11' LANE
11' LANE
2'
2'
10' SUP
6"
1.5%
2.0%
2.0%
PGL
2.0%
2.0%
6"
6' SDWK
1.5%
EXISTING GROUND
3:1 MAX
4:1 USUAL
TY II CURB (TYP)
3:1 MAX
4:1 USUAL

PROPOSED TYPICAL SECTION
STA 368+34.80 TO STA 372+44.40


℄ FM 741
PROP ROW VARIES (95' TO 120')
90' EXIST ROW
12' TO 33'
12' TO 22'
EXIST ROW
EXIST ROW
PROP ROW
4' BUFFER
2'
11' LANE
11' LANE
1'
16' RAISED MEDIAN
1'
11' LANE
11' LANE
2'
8' TO 10'
2'
SUP
6"
1.5%
2.0%
2.0%
PGL
2.0%
2.0%
6"
6' SDWK
1.5%
EXISTING GROUND
3:1 MAX
4:1 USUAL
TY II CURB (TYP)
3:1 MAX
4:1 USUAL

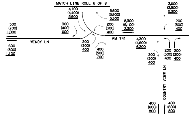
PROPOSED TYPICAL SECTION
STA 372+44.40 TO STA 389+10.10
STA 395+47.00 TO STA 399+17.10
STA 405+59.00 TO STA 406+99.00
STA 413+36.00 TO STA 419+97.97


℄ FM 741
PROP ROW VARIES (95' TO 115')
90' EXIST ROW
17' TO 25'
14' TO 31'
EXIST ROW
EXIST ROW
PROP ROW
4' TO 16' RAISED MEDIAN
4' BUFFER
2'
11' LANE
11' LANE
0' TO 11' TURN LANE
1'
1'
11' LANE
11' LANE
2'
8' TO 10'
2'
SUP
6"
1.5%
2.0%
PGL
VARIES
2.0%
6"
6' SDWK
1.5%
EXISTING GROUND
3:1 MAX
4:1 USUAL
TY II CURB (TYP)
3:1 MAX
4:1 USUAL

PROPOSED TYPICAL SECTION
STA 389+10.10 TO STA 395+47.00
STA 399+17.10 TO STA 405+59.00
STA 406+99.00 TO STA 413+36.00

LEGEND

→	DIRECTION OF TRAFFIC
ⓧ	PROPERTY ID
ⓧ	DRIVEWAY NUMBER
△	LEFT TURN BAY NON-TYPICAL
— - —	EXISTING ROW
▨	EXISTING CROSS STREET PAVEMENT TO BE REMOVED
═	EXISTING STORM DRAINAGE
— - —	PROPOSED ROW
— - —	PROPOSED ROW (BY OTHERS)
—	PROPOSED RETAINING WALL
—	PROPOSED SOUND WALL
🟨	PROPOSED MAIN LANE PAVEMENT
🟥	PROPOSED BRIDGE
■	PROPOSED APPROACH SLAB
🟪	PROPOSED CROSS STREET PAVEMENT
■	PROPOSED SUP/SIDEWALK
🟩	PROPOSED MEDIAN
🟧	PROPOSED DRIVEWAY
═	PROPOSED STORM DRAINAGE
🟦	DISPLACEMENTS
▨	100 YEAR FLOODPLAIN LIMITS
— - —	CITY LIMIT LINE
—	PROPOSED PEDESTRIAN RAIL


MATCH LINE ROLL 6 OF 8
4,100
(4,400)
5,900
3,600
(3,900)
5,300
3,600
(3,900)
5,300
500
(700)
1,000
300
(400)
600
200
(300)
400
8,300
(9,100)
12,300
200
(300)
400
WINDY LN
FM 741
600
(800)
1,100
200
(300)
400
400
(500)
700
4,300
(4,600)
6,200
200
(300)
400
200
(300)
400
200
(300)
400
COUNTRY VIEW LN
400
(600)
800
400
(600)
800

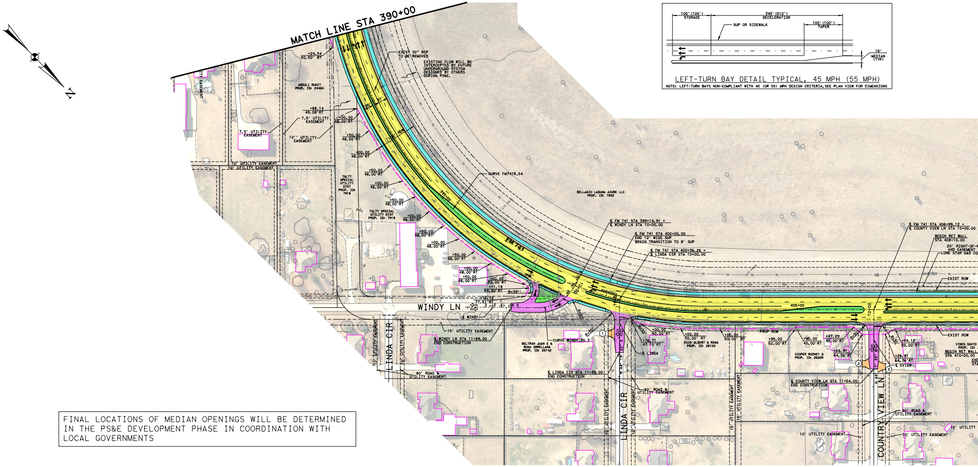
K-FACTOR = 11.8%
DIR. DISTRIBUTION = 54%/46%
TRUCK PERCENTAGE = 4.8% (ADT)

TRAFFIC DIAGRAM
N.T.S.

SOURCE OF DATA: TEXAS DEPARTMENT OF TRAN
TRANSPORTATION PROGRAMMING AND PLANNING TXDOT
UPDATED: OCTOBER 16, 2019

NOTES:

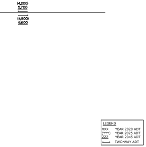
1. THE DESIGN SCHEMATICS WERE BASED ON FIELD SURVEY AND AERIAL SURVEY DATED APRIL 13, 2020.
2. OWNERSHIP INFORMATION SHOWN ON THE SCHEMATICS WERE OBTAINED FROM KAUFMAN COUNTY APPRAISAL DISTRICT (MARCH, 2022).
3. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS WERE BASED ON FEMA FLOOD INSURANCE RATE MAP.
4. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENTS IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
5. PROPOSED CURBS ARE TYPE II UNLESS STATED OTHERWISE.
6. EXISTING SKEWED INTERSECTIONS WERE REALIGNED TO IMPROVE SAFETY AT INTERSECTIONS.
7. ADA RAMPS AND SIDEWALKS ARE DIAGRAMMATIC ONLY AND WILL BE DESIGNED DURING PS&E. SIDEWALKS ARE SHOWN ON THE TYPICAL SECTIONS AND PLAN VIEW.
8. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.
9. FINAL LOCATIONS OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE CITY OF FORNEY AND KAUFMAN COUNTY.
10. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
11. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL (UNLESS NOTED OTHERWISE)
12. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN STAGE AND COORDINATION WITH THE LOCAL GOVERNMENT THAT THE DRIVEWAY IS A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
13. THERE IS A SCS RESERVOIR 0.24 MI. UPSTREAM OF THE PROPOSED BRIDGE AT STA. 200+00 AND 0.67 MI. UPSTREAM OF THE PROPOSED BRIDGE AT STA. 173+00. THE UPSTREAM RESERVOIR CATCHES THE MAJORITY OF SEDIMENT COMING TO IT AND DETAINS & SLOWS THE FLOW LEAVING THE RESERVOIR TO < 3 FT./SEC. (100-YEAR STORM EVENT). WITH THE FLOWS BEING SO SLOW, THERE IS A LOW POTENTIAL FOR EROSION, AND THUS A LOW POTENTIAL FOR SEDIMENT TO BE DEPOSITED.


MATCH LINE STA 390+00
N
+24.54
50.50' RT
EXIST 30" RCP
TO BE REMOVED
EXISTING FLOW WILL BE
INTERCEPTED BY FUTURE
UNDERGROUND SYSTEM
DESIGNED BY OTHERS
DURING PS&E.
ABOULI RUHIT
PROP. ID: 24460
+88.14
49.08' RT
7.5' UTILITY EASEMENT
+00.00
48.00' RT
7.5' UTILITY EASEMENT
10'' UTILITY EASEMENT
+50.00
48.00' RT
10' UTILITY EASEMENT
10' UTILITY EASEMENT
TALTY SPECIAL UTILITY DIST PROP. ID: 7918
TALTY SPECIAL UTILITY DIST PROP. ID: 7918
CURVE FM741R_54
395+00
FM 741
BELLAGIO LAGUNA AZURE LLC
PROP. ID: 7882
+11.19
54.92' RT
R=35'
+12.72
77.51' RT
+00.00
50.00' RT
WINDY LN
℄ WINDY
15' UTILITY EASEMENT
℄ WINDY LN STA 11+89.00
END CONSTRUCTION
CURVE WINDY_20_3
BELTRAN JUAN E & ROSA ORRELLANA PROP. ID: 26142
R=30'
LINDA CIR
10' UTILITY EASEMENT
60' ROAD & UTILITY EASEMENT
℄ FM 741 STA 399+14.91 =
℄ WINDY LN STA 10+00.00
℄ FM 741 STA 400+00.00
END 10' WIDE SUP
BEGIN TRANSITION TO 8' SUP
℄ FM 741 STA 400+36.26 =
℄ LINDA CIR STA 10+00.00
400+00
+76.71
47.10' RT
℄ LINDA
℄ LINDA CIR STA 11+38.00
END CONSTRUCTION
RIOS ALBERT & ROSA PROP. ID: 26100
PROP ROW
+95.00
50.00' RT
+95.00
45.00' RT
+47.29
45.00' RT
+68.91
64.36' RT
COOPER RODNEY G PROP. ID: 26225
405+00
10+00
℄ FM 741 STA 406+99.12 =
℄ COUNTY VIEW LN STA 10+00.00
BEGIN RET WALL
STA 408+10.00
20' RIGHT-OF-W
AND EASEMENT
LONE STAR GAS CO
EXIST ROW
+54.12
50.00' RT
+28.91
64.36' RT
℄ CVIEW
VINES DAVID
PROP. ID:
BEGIN RET WALL
STA 410+00.00
℄ COUNTY VIEW LN STA 11+54.00
END CONSTRUCTION
15' UTILITY EASEMENT
10' UTILITY EASEMENT
COUNTRY VIEW LN
15' UTILITY
1
2
3
100' (100')
STORAGE
345' (610')
DECELERATION
SUP OR SIDEWALK
100' (100')
TAPER
16'
MEDIAN
(TYP)

LEFT-TURN BAY DETAIL TYPICAL, 45 MPH (55 MPH)

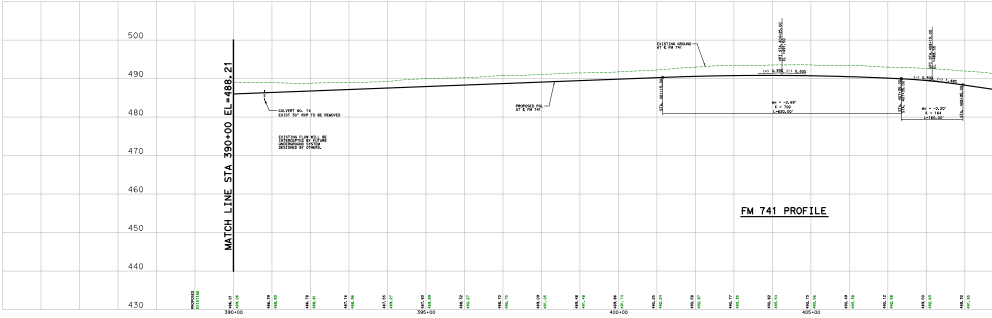
NOTE: LEFT-TURN BAYS NON-COMPLIANT WITH 45 (OR 55) MPH DESIGN CRITERIA, SEE PLAN VIEW FOR DIMENSIONS

FINAL LOCATIONS OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH LOCAL GOVERNMENTS


(4,200)
5,700
(4,900)
6,800

LEGEND

XXX YEAR 2020 ADT
(YYY) YEAR 2025 ADT
ZZZ YEAR 2045 ADT
⟷ TWO-WAY ADT



FM 741 PROFILE

SPORTATION;
T, AUSTIN, TEXAS

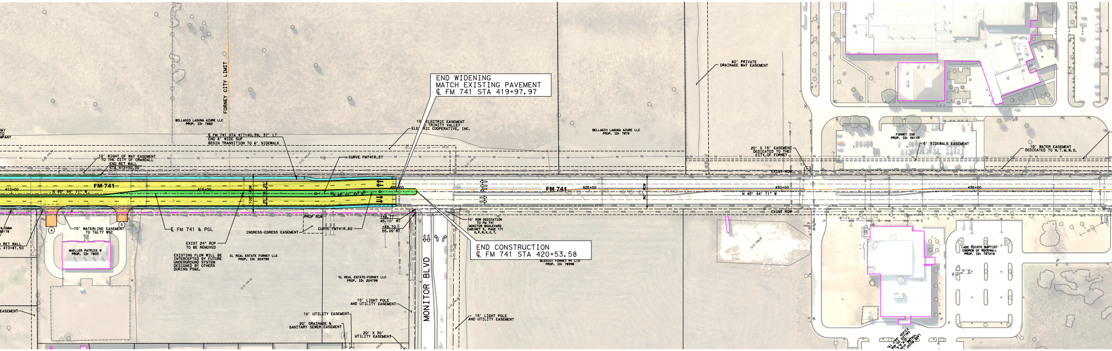
SUPERELEV
AXIS OF
+
−

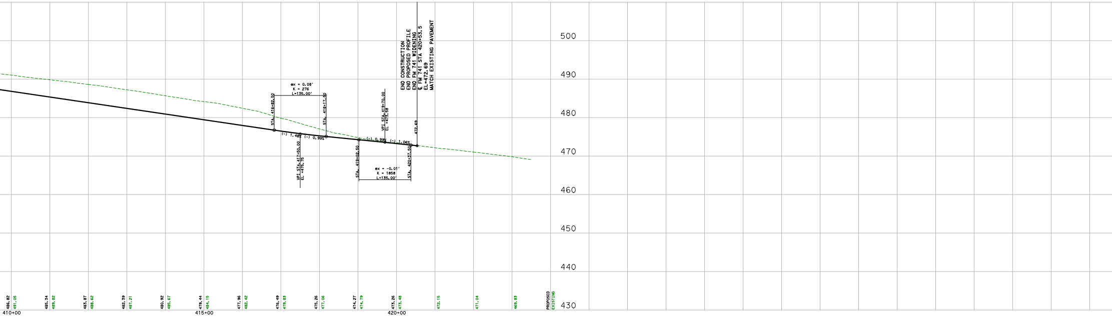
℄ FM 741 ALIGNMENT DATA

CURVE NO.	P.I. STATION	P.I. STATION - N	P.I. STATION - E	DELTA	RADIUS	DEGREE	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C. STATION	P.T. STATION	BACK TANGENT	AHEAD TANGENT
FM741R_54	397+17.03	6,951,137.21	2,600,586.46	89° 03′ 54.56" (LT)	955.00′	5° 59′ 58.41"	939.54′	1,484.53′	N 1° 12′ 13.35" W	1,339.51′	387+77.49	402+62.01	N 43° 19′ 43.93" E	N 45° 44′ 10.63" W
FM741R_57	418+10.64	6,952,873.86	2,598,804.59	2° 17′ 22.04" (LT)	1,040.00′	5° 30′ 33.15"	20.78′	41.56′	N 46° 52′ 51.65" W	41.55′	417+89.86	418+31.42	N 45° 44′ 10.63" W	N 48° 01′ 32.67" W
FM741R_60	419+35.80	6,952,957.57	2,598,711.54	2° 17′ 22.04" (RT)	1,040.00′	5° 30′ 33.15"	20.78′	41.56′	N 46° 52′ 51.65" W	41.55′	419+15.02	419+56.58	N 48° 01′ 32.67" W	N 45° 44′ 10.63" W

℄ WINDY LN ALIGNMENT DATA

CURVE NO.	P.I. STATION	P.I. STATION - N	P.I. STATION - E	DELTA	RADIUS	DEGREE	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C. STATION	P.T. STATION	BACK TANGENT	AHEAD TANGENT
WINDY_20_3	10+67.77	6,951,528.22	2,600,178.84	59° 12′ 06.84" (RT)	107.00′	53° 32′ 50.85"	60.79′	110.56′	S 74° 49′ 30.90" E	105.71′	10+06.98	11+17.54	N 75° 34′ 25.68" E	S 45° 13′ 27.48" E


FORNEY CITY LIMIT
BELLAGIO LAGUNA AZURE LLC
PROP. ID: 7882
WAY
TO
MPANY
℄ FM 741 STA 417+40.39, 37′ LT
END 8′ WIDE SUP
BEGIN TRANSITION TO 6′ SIDEWALK
10′ RIGHT OF WAY EASEMENT
TO THE CITY OF CRANDALL
END RET WALL
STA 412+30.00
FM 741
410+00
N 45° 44′ 11" W
415+00
100′ ROW
25′
15′
25′
& EMMA
26178
RET WALL
410+81.50
4
5
15′ WATERLINE EASEMENT
TO TALTY WSC
MUELLER PATRICK W
PROP. ID: 7855
EASEMENT
℄ FM 741 & PGL
EXIST 24" RCP
TO BE REMOVED
EXISTING FLOW WILL BE
INTERCEPTED BY FUTURE
UNDERGROUND SYSTEM
DESIGNED BY OTHERS
DURING PS&E.
CL REAL ESTATE FORNEY LLC
PROP. ID: 204799
INGRESS-EGRESS EASEMENT
PROP ROW
CURVE FM741R_57
CURVE FM741R_60
N 48° 01′ 33" W
420+00
+48.77
45.10′ RT
+48.70
55.00′RT
END WIDENING
MATCH EXISTING PAVEMENT
℄ FM 741 STA 419+97.97
15′ ELECTRIC EASEMENT
TO TRINITY VALLEY
ELECTRIC COOPERATIVE, INC.
CL REAL ESTATE-FORNEY LLC
PROP. ID: 204798
15′ LIGHT POLE
AND UTILITY EASEMENT
10′ UTILITY EASEMENT
20′ DRAINAGE &
SANITARY SEWER EASEMENT
20′ X 30′
UTILITY EASEMENT
MONITOR BLVD
10′ ROW DEDICATION
TO FM 741
MONITOR BOULEVARD
CABINET 3, PAGE 171
O.P.R.K.C.T.
END CONSTRUCTION
℄ FM 741 STA 420+53.58
BLERIOT FORNEY #1 LTD
PROP. ID: 78996
15′ LIGHT POLE
AND UTILITY EASEMENT
BELLAGIO LAGUNA AZURE LLC
PROP. ID: 7878
60′ PRIVATE
DRAINAGE WAY EASEMENT
FM 741
425+00
90′ ROW
430+00
N 45° 44′ 11" W
435+00
EXIST ROW
EXIST ROW
20′ X 15′ EASEMENT
DEDICATED TO THE
CITY OF FORNEY
FORNEY ISD
PROP. ID: 56143
5′ SIDEWALK EASEMENT
10′ WATER EASEMENT
DEDICATED TO N.T.M.W.D.
LAKE POINTE BAPTIST
CHURCH OF ROCKWALL
PROP. ID: 187216



VATION -
ROTATION

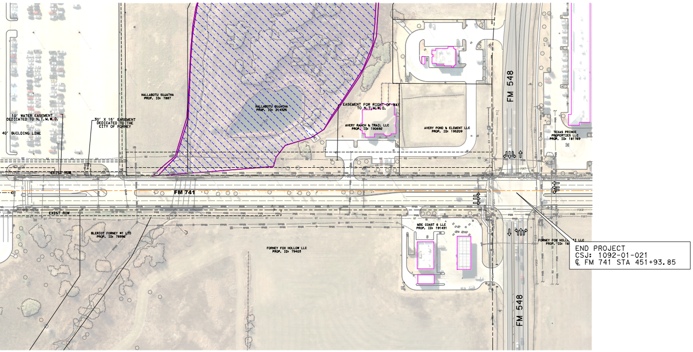
+ PGL
−

SUPERELEVATION: FM741LT

Station	Cross Slope	POINT TYPE	TRANSITION TYPE
419+91.00	-2.00%	NORMAL CROWN	LINEAR
419+97.97	-2.08%	EXISTING CROSS SLOPE	LINEAR

SUPERELEVATION: FM741RT

Station	Cross Slope	POINT TYPE	TRANSITION TYPE
402+24.00	-1.00%	FULL SUPER	LINEAR
404+13.00	-2.00%	NORMAL CROWN	LINEAR
419+88.00	-2.00%	NORMAL CROWN	LINEAR
419+97.97	-1.88%	EXISTING CROSS SLOPE	LINEAR


NALLABOTU SUJATHA
PROP. ID: 7887
NALLABOTU SUJATHA
PROP. ID: 214326
10' WATER EASEMENT
DEDICATED TO N.T.M.W.D.
30' X 15' EASEMENT
DEDICATED TO THE
CITY OF FORNEY
40' BUILDING LINE
EXIST ROW
FM 741
EXIST ROW
BLERIOT FORNEY #1 LTD
PROP. ID: 78996
FORNEY FOX HOLLOW LLC
PROP. ID: 79405
EASEMENT FOR RIGHT-OF-WAY
TO N.T.M.W.D.
AVERY RANCH & TRAIL LLC
PROP. ID: 190692
AVERY POND & ELEMENT LLC
PROP. ID: 195209
MDC COAST 6 LLC
PROP. ID: 191431
TEXAS PRINCE
PROPERTIES LLC
PROP. ID: 181769
FORNEY FOX HOLLOW II LLC
PROP. ID: 16
FM 548
FM 548

END PROJECT
CSJ: 1092-01-021
℄ FM 741 STA 451+93.85

N

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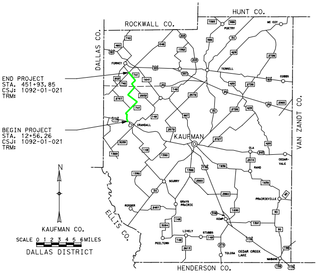
HUNT CO.
ROCKWALL CO.
DALLAS CO.
VAN ZANDT CO.
ELLIS CO.
HENDERSON CO.
KAUFMAN CO.
KAUFMAN
FORNEY
CRANDALL
TERRELL
POETRY
MC COY
COBBS
SCURRY
ROSSER
GRAYS PRAIRIE
KEMP
PRAIRIEVILLE
OLA
RAND
CEDAR-VALE
LIVELY
STUBBS
PEELTOWN
TOLOSA
CEDAR CREEK LAKE
MABANK
N
SCALE 0 1 2 3 4 5 6 MILES
DALLAS DISTRICT

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ROLL 7: PLAN AND PROFILE - STA 390+00 TO END PROJECT

100% SCHEMATIC

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NAME	P.E. NO.	DATE
ROBERT DEAN AUSTIN	67596	12/1/2022

0' 50' 100' 200'
HORIZONTAL

0' 5' 10' 20'
VERTICAL

GRAPHIC SCALES IN FEET

Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE FIRM REGISTRATION NO. 2614

Plotted on: 12/1/2022

Design Filename: c:\projectwise\rabaker\d0763348\FM741-SCHEM-07.dgn