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Texas Department
of Transportation

DALLAS DISTRICT
PRELIMINARY DESIGN SCHEMATIC

MOHAMED K. BUR, P.E.
DISTRICT ENGINEER

FM 548 / FM 1641

FM 548 FROM: FM 1641 TO: US 80
CSJ: 2588-01-020
PROJECT LENGTH: 0.22 MILES

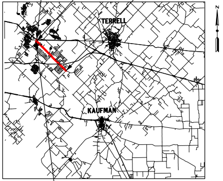
FM 1641 FROM: FM 548 TO: FM 148
CSJ: 1217-01-019
PROJECT LENGTH: 5.42 MILES

KAUFMAN COUNTY
FUNCTIONAL CLASS: URBAN MINOR ARTERIAL
FM 548/FM 1641 DESIGN SPEED: 45 MPH
CROSS-ST DESIGN SPEED: 30 MPH

END CSJ: 2588-01-020
FM 548 STA. 23+82.00

BEGIN CSJ: 1217-01-019
FM 1641 STA. 10+81.90

END CSJ: 1217-01-019
FM 1641 STA. 296+90.00


TERRELL
KAUFMAN
N

BEGIN CSJ: 2588-01-020
FM 548 STA . 11+90.00

KAUFMAN COUNTY
SCALE (IN MILES)
0 3 6 9 12
DALLAS DISTRICT

Scale: Horizontal 1"=100'
Scale: Vertical 1"=10'

FEBRUARY 2020

PRELIMINARY
SUBJECT TO REVISIONS

SCHEMATIC PREPARED BY OR UNDER
THE DIRECT SUPERVISION OF:

BARRY D. HEARD — 85478
NAME — P.E. NUMBER

KARA K. HUFFMAN — 88525
NAME — P.E. NUMBER

FEBRUARY 19, 2020
DATE

NOT INTENDED FOR CONSTRUCTION,
BIDDING, OR PERMIT PURPOSES

ROLL 2 OF 4

Lina T. Ramey & Associates, Inc.
3320 Belt Line Rd
Farmers Branch, Texas 75234
TBPE Registration No. F-782

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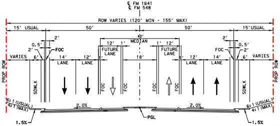
LEGEND:

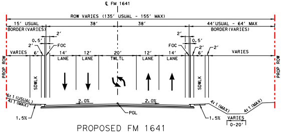
🟨	PROPOSED MAINLANES
🟪	PROPOSED CROSS STREETS
▨	PROPOSED SIDEWALKS
—·—·—·—	EXISTING ROW
—·—·—·—	PROPOSED ROW
—·—·—·—	PROPOSED ROW BY OTHERS
—·—·—·—	PROPOSED CENTERLINE/BASELINE
- - - - - -	EXISTING EASEMENT
——	NTMWD WATER LINE
---- W(D)----	WATER LINE
----G(D)----	GAS LINE
—— OE ——	ELECTRIC LINE
- - - - - -	FUTURE PROJECT BY OTHERS
→	DIRECTION OF TRAVEL
▨	RIPRAP
(XXXXX)	CURVE NUMBER

NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON EXISTING PLANS AND AERIAL SURVEYS DATED NOVEMBER 2017 AND SEPTEMBER 2018.
2. ADA RAMPS ARE NOT DEPICTED ON THE PLAN. THE EXACT LOCATIONS OF ADA RAMPS AND SIDEWALKS WILL BE DETERMINED DURING THE FINAL DESIGN THROUGH COORDINATION BETWEEN TxDOT AND LOCAL GOVERNMENTS.
3. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN AND COORDINATION WITH THE CITIES THAT THE DRIVEWAY WILL BE A SAFETY ISSUE.
4. MEDIAN OPENING LOCATIONS TO BE DETERMINED IN PS&E DEVELOPMENT IN COORDINATION WITH LOCAL GOVERNMENT.
5. UNLESS OTHERWISE NOTED, EXISTING PAVEMENT AND BRIDGES LOCATED WITHIN LIMITS OF PROPOSED RECONSTRUCTION WILL BE REMOVED.
6. DIMENSIONS ARE TO FACE OF CURB OR TO THE EDGE OF UNCURBED PAVEMENT (UNLESS OTHERWISE NOTED).
7. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAP 48139C0050F.
8. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM ELLIS COUNTY APPRAISAL DISTRICT (JUNE 2018).
9. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

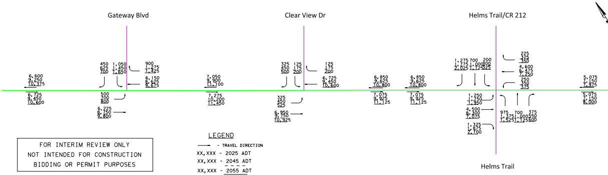

℄ FM 1641
℄ FM 548
ROW VARIES (120' MIN - 155' MAX)
15' USUAL
50'
50'
15'USUAL
42' MEDIAN
2'
0.5'
2'
FOC
12'
1'
FUTURE LANE
1'
12'
FUTURE LANE
VARIES
6'
14' LANE
12' LANE
1'
18'
1'
12' LANE
14' LANE
6'
VARIES
PROP ROW
SDWLK
FOC
FOC
FOC
FOC
SDWLK
PROP ROW
6:1 (USUAL)
4:1 (MAX)
2.0%
2.0%
6:1 (USUAL)
4:1 (MAX)
1.5%
PGL
1.5%

PROPOSED FM 1641
STA. 10+81.90 TO STA. 240+00.00
PROPOSED FM 548
STA. 13+00.00 TO STA. 23+82.00


℄ FM 1641
ROW VARIES (135' USUAL - 155' MAX)
15' USUAL
BORDER (VARIES)
38'
38'
44'USUAL - 64' MAX
BORDER (VARIES)
2'
0.5'
2'
FOC
VARIES
6'
14' LANE
12' LANE
20' TWLTL
12' LANE
14' LANE
FOC
2'
0.5'
2'
2'
6'
VARIES
PROP ROW
SDWLK
SDWLK
PROP ROW
6:1 (USUAL)
4:1 (MAX)
2.0%
2.0%
4:1 (MAX)
4:1 (MAX)
1.5%
PGL
1.5%
VARIES
0-20'

PROPOSED FM 1641
STA. 240+00.00 TO STA. 296+90.00

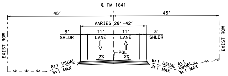
PROPERTY ID	NAME	MAILING ADDRESS
WB19	UNKNOWN	UNKNOWN
WB20	MURPHY MICHAEL E & NORMA G	12612 FM 1641, FORNEY, TX 75126
WB21	JACKRABBIT VENTURES	PO BOX 2603, FORNEY, TX 75126
WB22	MC MANUS GARY L & JOYCE	12500 FM 1641, FORNEY, TX 75126
WB23	LINDEN STEEL LP	12418 FM RD 1641, FORNEY, TX 75126
WB24	DUKATZ ERVIN L	W5531 SOUTHDALE DR, LA CROSSE, WI 54601
WB25	HEROLD ROBERT A & KATHRYN J	133 BUGLE CALL RD, FORNEY, TX 75126-4030
WB26	LUTHERAN CHURCH OF FORNEY TEXAS	PO BOX 2146, FORNEY, TX 75126
WB27	SOUTH FORNEY LLC	2101 CEDAR SPRINGS RD, SUITE 600, DALLAS, TX 75201
WB28	VENNER ROBERT & LINDA	PO BOX 2138 , FORNEY, TX 75126
WB29	PIEKUT DAVID M	13011 CLEARVIEW DR, FORNEY, TX 75126
WB30	DOHERTY JAMES F & ALICE F	13000 CLEARVIEW DR, FORNEY, TX 75126
WB31	NOAH S ARK EARLY DEV CENTER II	JONI MC ELVEEN, 11270 FM RD 1641, FORNEY, TX 75126
WB32	BLUMIN ROBERT & CRAIG A	17000 DALLAS PKWY #123, DALLAS, TX 75248
WB33	HALLIDAY GARY L & KATHLEEN A	11120 FM RD 1641, FORNEY, TX 75126
EB7	FORNEY ISD	600 S BOIS D ARC, FORNEY, TX 75126
EB8	FIRST PRESBYTERIAN CHURCH	KATHY COLLIER, PO BOX 98, FORNEY, TX 75126
EB9	MC KELLAR KATE PINSON EST	8621 RADCLIFFE DR, TYLER, TX 75703
EB10	WHICKER RICHARD & VALERIE	PO BOX 2219, FORNEY, TX 75126
EB11	SCOTT LOUTISSUE	PO BOX 497791, GARLAND, TX 75049
EB12	GRAHAM DONALD & RICKI	11116 BRADLEY CIR, FORNEY, TX 75126
EB13	THOMAS GREGORY	10426 BRADLEY CIR, FORNEY, TX 75126
EB14	RUVALCABA JUAN C & GEMA D	10425 BRADLEY CIR, FORNEY, TX 75126
EB15	BRADSHAW RANDY E & JULIE K	10420 WOODBRIDGE DR, FORNEY, TX 75126
EB16	GRAY LAWRENCE & JULIE	10411 WOODBRIDGE DR, FORNEY, TX 75126
EB17	COLLINS MILDRED C	11061 SWAFFAR, DALLAS, TX 75228


Gateway Blvd
Clear View Dr
Helms Trail/CR 212
Helms Trail
6,600
9,250
10,375
6,725
9,450
10,600
450
625
700
1,050
1,450
1,650
900
1,275
1,425
6,150
8,625
9,675
500
700
800
6,225
8,750
9,800
7,050
9,900
11,100
7,275
10,200
11,450
325
450
500
125
175
200
125
175
200
6,725
9,450
10,600
325
450
525
6,950
9,750
10,925
6,850
9,625
10,800
7,075
9,925
11,125
6,850
9,625
10,800
7,075
9,925
11,125
1,275
1,775
2,025
700
1,000
1,125
200
300
325
225
325
350
4,600
6,475
7,250
250
350
375
1,250
1,750
1,950
4,500
6,300
7,075
1,325
1,875
2,100
975
1,375
1,525
700
1,000
1,125
375
550
600
5,075
7,150
7,975
5,075
7,150
8,000

FOR INTERIM REVIEW ONLY
NOT INTENDED FOR CONSTRUCTION
BIDDING OR PERMIT PURPOSES

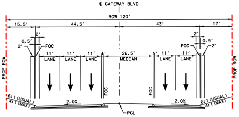
LEGEND
→ - TRAVEL DIRECTION
XX,XXX - 2025 ADT
XX,XXX - 2045 ADT
XX,XXX - 2055 ADT

TRAFFIC PROJECTIONS BASED ON NCTCOG TDM AND CORRIDOR INFORMATION PACKET PROVIDED BY TPP NOVEMBER


℄ FM 1641
45'
45'
VARIES 28'-42'
3'
SHLDR
11'
LANE
11'
LANE
3'
SHLDR
EXIST ROW
EXIST ROW
PGL
2%
2%
6:1 USUAL
3:1 MAX
6:1 USUAL
3:1 MAX
4:1 USUAL
3:1 MAX

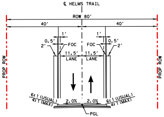
EXISTING FM 1641

STA. 10+81.90 TO STA. 296+90.00


℄ GATEWAY BLVD
ROW 120'
15.5'
44.5'
43'
17'
2'
0.5'
2'
FOC
2'
0.5'
2'
FOC
11'
LANE
11'
LANE
11'
LANE
1'
26.5'
MEDIAN
1'
11'
LANE
11'
LANE
PROP ROW
PROP ROW
FOC
FOC
6:1 (USUAL)
4:1 (MAX)
2.0%
2.0%
6:1 (USUAL)
4:1 (MAX)
PGL

EXISTING/PROPOSED GATEWAY BLVD

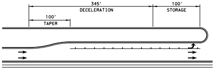
STA. 10+00.00 TO STA. 12+60.00


℄ HELMS TRAIL
ROW 80'
40'
40'
1'
0.5'
2'
FOC
1'
FOC
0.5'
2'
11.5'
LANE
11.5'
LANE
PROP ROW
PROP ROW
6:1 (USUAL)
4:1 (MAX)
2.0%
2.0%
6:1 (USUAL)
4:1 (MAX)
PGL

EXISTING/PROPOSED HELMS TRAIL

STA. 10+67.53 TO STA. 13+37.36

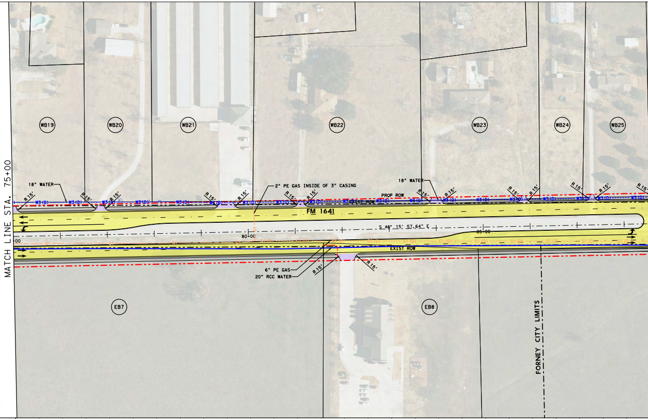
CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADIUS	PI STA	PC STA	PT STA
FM1641-6	1° 08' 50.52" (RT)	1° 02' 30.27"	55.0715	110.1394	5500.00'	101+43.60	100+88.53	101+98.67
FM1641-7	1° 30' 40.03" (RT)	1° 54' 35.49"	39.5633'	79.1220'	3,000.00'	126+71.11	126+31.55	127+10.67
FM1641-8	1° 48' 03.53" (LT)	2° 17' 30.59"	39.2946'	78.5826'	2,500.00'	128+68.28	128+28.99	129+07.57
FM1641-9	16° 23' 27.08" (RT)	7° 09' 43.10"	115.2166'	228.8595'	800.00'	154+41.01	153+25.80	155+54.65
XCLEAR-1	41° 12' 43.31" (LT)	24° 54' 40.35"	86.4789'	165.4357'	230.00'	12+97.18	12+10.70	13+76.14
XHELMS-1	1° 52' 24.23" (RT)	1° 08' 45.30"	81.7496'	163.4847	5,000.00'	13+18.26	12+36.52	14+00.00

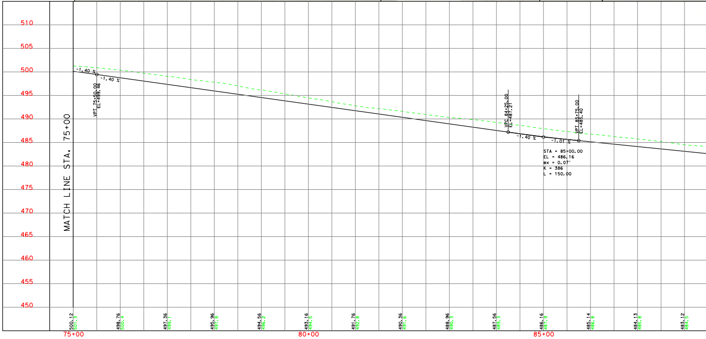

345'
DECELERATION
100'
STORAGE
100'
TAPER

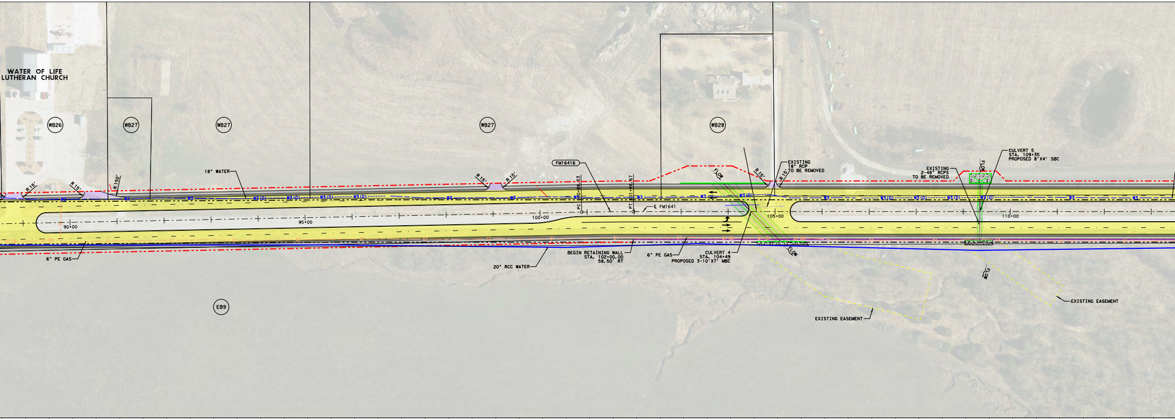
TYPICAL LEFT-TURN BAY DETAIL

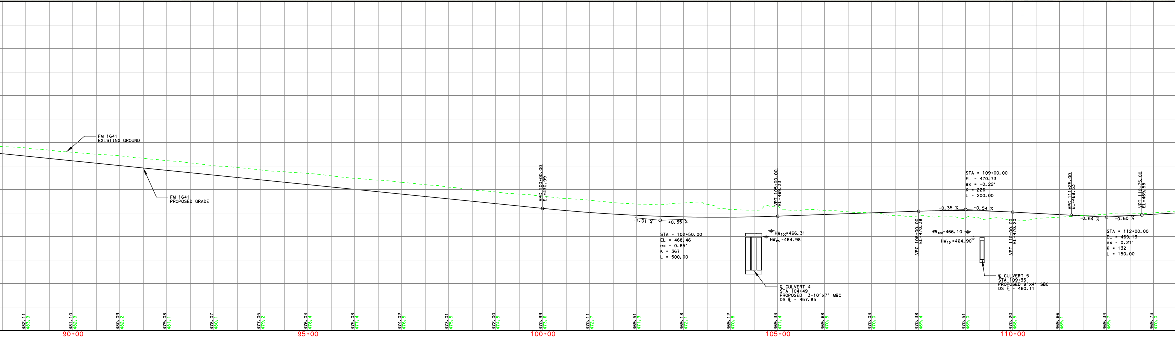
UNLESS OTHERWISE NOTED

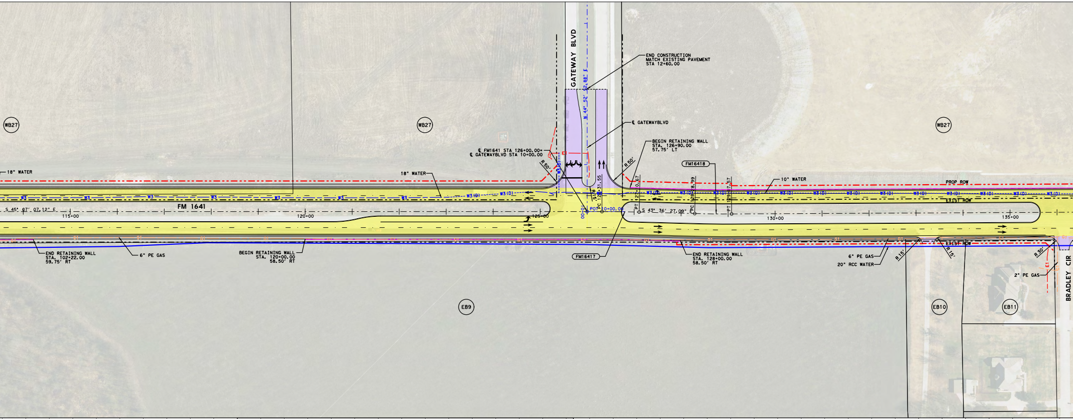
14, 2019

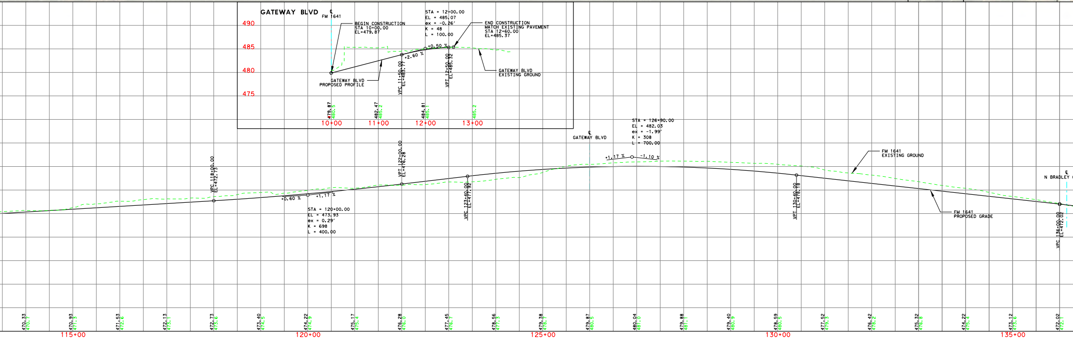

MATCH LINE STA. 75+00
WB19
WB20
WB21
WB22
WB23
WB24
WB25
18" WATER
2" PE GAS INSIDE OF 3" CASING
18" WATER
PROP ROW
R 15'
FM 1641
S 46° 15' 57.64" E
80+00
85+00
EXIST ROW
6" PE GAS
20" RCC WATER
EB7
EB8
FORNEY CITY LIMITS

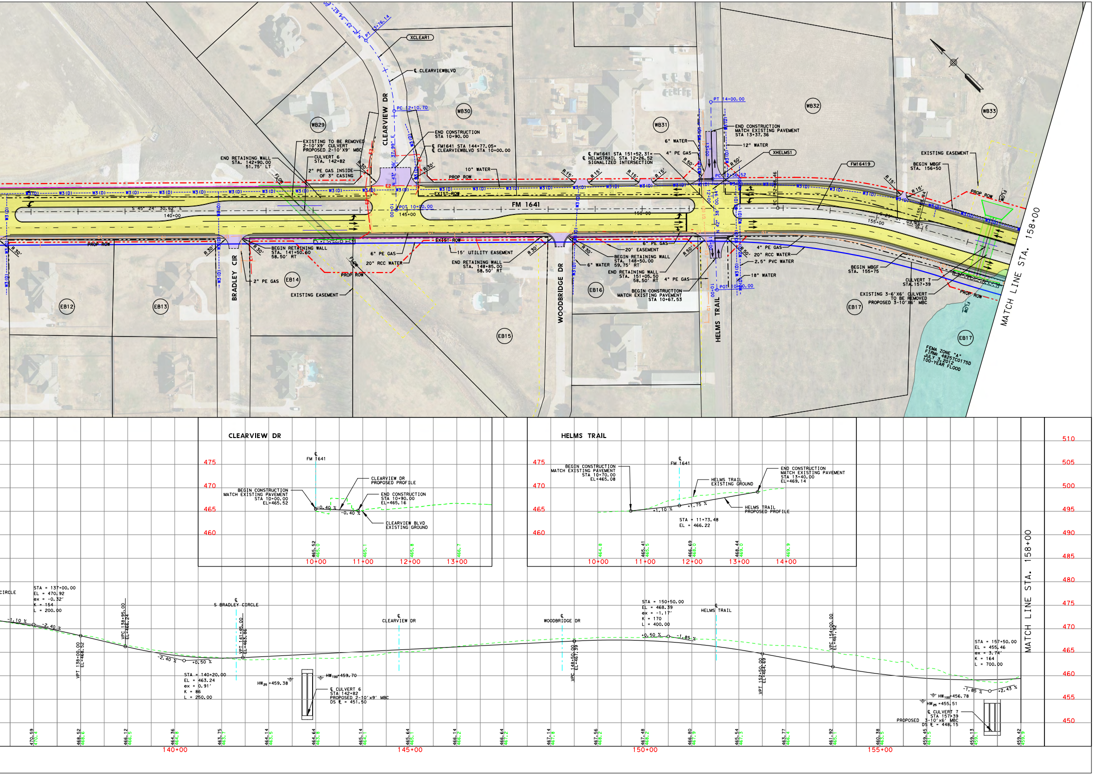



WATER OF LIFE
LUTHERAN CHURCH
WB26
WB27
WB27
WB27
WB28
EB9
R 15'
R 15'
R 150'
R 15'
R 15'
R 15'
R 15'
18" WATER
FM16416
PC 100+88.53
PT 101+88.67
℄ FM1641
EXISTING
18" RCP
TO BE REMOVED
FLOW
FLOW
FLOW
FLOW
EXISTING
2-48" RCPS
TO BE REMOVED
CULVERT 5
STA. 109+35
PROPOSED 8'X4' SBC
W3
W3 (D)
G1
G1 (D)
90+00
95+00
100+00
105+00
110+00
6" PE GAS
20" RCC WATER
BEGIN RETAINING WALL
STA. 102+00.00
58.50' RT
6" PE GAS
CULVERT 4
STA. 104+49
PROPOSED 3-10'X7' MBC
EXISTING EASEMENT
EXISTING EASEMENT




GATEWAY BLVD
N 44° 52' 52.88" E
END CONSTRUCTION
MATCH EXISTING PAVEMENT
STA 12+60.00
℄ GATEWAYBLVD
℄ FM1641 STA 126+00.00=
℄ GATEWAYBLVD STA 10+00.00
BEGIN RETAINING WALL
STA. 126+90.00
57.75' LT
FM16418
FM16417
R 50'
R 50'
R 15'
E1
W3 (D)
W3
WB27
WB27
WB27
EB9
EB10
EB11
18" WATER
18" WATER
10" WATER
PROP ROW
EXIST ROW
EXIST ROW
FM 1641
S 45° 07' 07.12" E
S 43° 36' 27.09" E
115+00
120+00
125+00
130+00
135+00
10+00
POT 10+00.00
+31.55
0.67
28.99
07.57
PT
PC
PT
END RETAINING WALL
STA. 102+22.00
59.75' RT
6" PE GAS
BEGIN RETAINING WALL
STA. 120+00.00
58.50' RT
END RETAINING WALL
STA. 128+00.00
58.50' RT
6" PE GAS
20" RCC WATER
R 15'
R 15'
R 30'
2" PE GAS
G1
BRADLEY CIR




FM 1641
CLEARVIEW DR
BRADLEY CIR
WOODBRIDGE DR
HELMS TRAIL
MATCH LINE STA. 158+00
PROP ROW
EXIST ROW
WB29
WB30
WB31
WB32
WB33
EB12
EB13
EB14
EB15
EB16
EB17
END RETAINING WALL STA. 142+90.00 51.75' LT
EXISTING TO BE REMOVED 2-10'X9' CULVERT PROPOSED 2-10'X9' MBC
CULVERT 6 STA. 142+82
2" PE GAS INSIDE OF 3" CASING
END CONSTRUCTION STA 10+90.00
℄ FM1641 STA 144+77.05= ℄ CLEARVIEWBLVD STA 10+00.00
℄ FM1641 STA 151+52.31= ℄ HELMSTRAIL STA 12+26.52 SIGNALIZED INTERSECTION
END CONSTRUCTION MATCH EXISTING PAVEMENT STA 13+37.36
BEGIN RETAINING WALL STA. 141+50.60 58.50' RT
END RETAINING WALL STA. 148+85.00 58.50' RT
BEGIN RETAINING WALL STA. 148+50.00 59.75' RT
END RETAINING WALL STA. 151+05.50 58.50' RT
BEGIN CONSTRUCTION MATCH EXISTING PAVEMENT STA 10+67.53
15' UTILITY EASEMENT
20' EASEMENT
EXISTING EASEMENT
BEGIN MBGF STA. 155+75
BEGIN MBGF STA. 156+50
CULVERT 7 STA. 157+39
EXISTING 3-6'X6' CULVERT TO BE REMOVED PROPOSED 3-10'X6' MBC
FEMA ZONE "A" FIRM: 48257C0175D JULY 3, 2012 100-YEAR FLOOD
CLEARVIEW DR
BEGIN CONSTRUCTION MATCH EXISTING PAVEMENT STA 10+00.00 EL=465.52
CLEARVIEW DR PROPOSED PROFILE
END CONSTRUCTION STA 10+90.00 EL=465.16
CLEARVIEW BLVD EXISTING GROUND
HELMS TRAIL
BEGIN CONSTRUCTION MATCH EXISTING PAVEMENT STA 10+70.00 EL=465.08
HELMS TRAIL EXISTING GROUND
END CONSTRUCTION MATCH EXISTING PAVEMENT STA 13+40.00 EL=469.14
HELMS TRAIL PROPOSED PROFILE
STA = 11+73.48 EL = 466.22
STA = 137+00.00 EL = 470.92 ex = -0.32' K = 164 L = 200.00
STA = 140+20.00 EL = 463.24 ex = 0.91' K = 86 L = 250.00
STA = 150+50.00 EL = 468.39 ex = -1.17' K = 170 L = 400.00
STA = 157+50.00 EL = 455.46 ex = -3.74' K = 164 L = 700.00
℄ CULVERT 6 STA 142+82 PROPOSED 2-10'x9' MBC DS ℄ = 451.50
℄ CULVERT 7 STA 157+39 PROPOSED 3-10'x6' MBC DS ℄ = 448.15
140+00
145+00
150+00
155+00

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Texas Department of Transportation

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MOHAMED K. BUR, P.E.
DISTRICT ENGINEER

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PROJECT LENGTH: 0.22 MILES

FM 1641 FROM: FM 548 TO: FM 148
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PROJECT LENGTH: 5.42 MILES

KAUFMAN COUNTY
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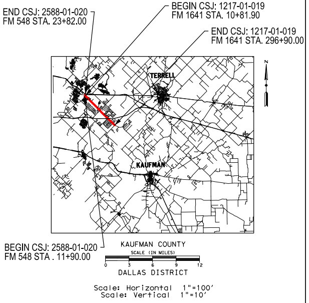
FM 548/FM 1641 DESIGN SPEED: 45 MPH
CROSS-ST DESIGN SPEED: 30 MPH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FM 1641 STA. 10+81.90
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FM 1641 STA. 296+90.00
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KAUFMAN
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FM 548 STA . 11+90.00
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SCALE (IN MILES)
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3
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9
12
DALLAS DISTRICT

Scale: Horizontal 1"=100'
Scale: Vertical 1"=10'

FEBRUARY 2020

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SUBJECT TO REVISIONS

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NAME	P.E. NUMBER
BARRY D. HEARD	85478
KARA K. HUFFMAN	88525

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