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TEXAS DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT

MOHAMED K. BUR, P.E. DISTRICT ENGINEER

DESIGN SCHEMATIC

URBAN PRINCIPAL ARTERIAL

DENTON COUNTY

US 377

FROM: NORTH OF BUS 377E
TO: US 380
PROJECT LENGTH: 13.776 MILES (72,734.66 FT)

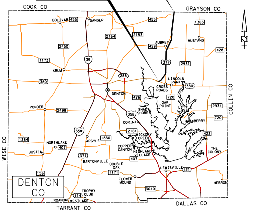
CSJ: 0081-06-040

ROADWAY SECTION	DESIGN SPEED	FUNCTIONAL CLASS
US 377	45 MPH	URBAN PRINCIPAL ARTERIAL
FOUTCH RD	30 MPH	LOCAL
ZIPPER RD	30 MPH	LOCAL
FM 455 W	30 MPH	MINOR ARTERIAL

PROJECT LOCATION

US 377 STA 97+30.00
BEGIN PROJECT
BEGIN CSJ: 0081-06-040

US 377 STA 824+64.66
END PROJECT
END CSJ: 0081-06-040


COOK CO
GRAYSON CO
COLLIN CO
WISE CO
TARRANT CO
DALLAS CO
DENTON CO
BOLIVAR
SANGER
AUBREY
MUSTANG
KRUM
LINCOLN PARK
CROSS ROADS
DENTON
OAK POINT
PONDER
SHADY SHORES
LITTLE ELM
CORINTH
HACKBERRY
HICKORY CREEK
ARGYLE
NORTHLAKE
COPPER CANYON
HIGHLAND VILLAGE
JUSTIN
THE COLONY
BARTONVILLE
DOUBLE OAK
LEWISVILLE
FLOWER MOUND
TROPHY CLUB
HEBRON
ROANOKE
WESTLAKE
N
455
2153
2164
2450
428
1385
1173
35
377
2931
288
380
426
720
2934
2499
35E
2181
423
35W
1384
1830
407
121
156
1171
3040
114

PREPARED BY TEAGUE NALL AND PERKINS, INC.
FIRM REGISTRATION NUMBER 230

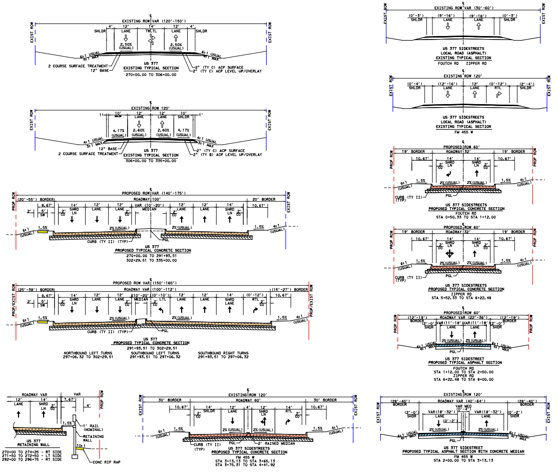
08/31/2020
DATE APPROVED

Dustin C. Ogle
91101
10/7/2020
Dustin C. Ogle

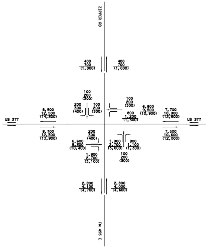
50 0 50 100
HORIZONTAL SCALE 1" = 100'
VERTICAL SCALE 1" = 10'
SCALE IN FEET

ROLL 4 of 15

OCTOBER 2020


US 377
EXISTING TYPICAL SECTION
270+00.00 TO 306+00.00
US 377
EXISTING TYPICAL SECTION
306+00.00 TO 335+00.00
US 377
PROPOSED TYPICAL CONCRETE SECTION
270+00.00 TO 291+93.51
302+29.51 TO 335+00.00
US 377
PROPOSED TYPICAL CONCRETE SECTION
291+93.51 TO 302+29.51
NORTHBOUND LEFT TURNS
297+06.32 TO 302+29.51
SOUTHBOUND LEFT TURNS
291+93.51 TO 297+06.32
SOUTHBOUND RIGHT TURNS
291+93.51 TO 297+06.32
US 377
RETAINING WALL
270+00 TO 274+25 - RT SIDE
271+50 TO 272+50 - LT SIDE
292+00 TO 296+75 - RT SIDE
US 377 SIDESTREETS
PROPOSED TYPICAL CONCRETE SECTION
FM 455 W
STA 3+13.13 TO STA 3+65.13
STA 3+75.31 TO STA 4+41.92
US 377 SIDESTREETS
LOCAL ROAD (ASPHALT)
EXISTING TYPICAL SECTION
FOUTCH RD ZIPPER RD
US 377 SIDESTREETS
LOCAL ROAD (ASPHALT)
EXISTING TYPICAL SECTION
FM 455 W
US 377 SIDESTREETS
PROPOSED TYPICAL CONCRETE SECTION
FOUTCH RD
STA 0+50.33 TO STA 1+12.00
US 377 SIDESTREETS
PROPOSED TYPICAL CONCRETE SECTION
ZIPPER RD
STA 5+52.33 TO STA 6+22.48
US 377 SIDESTREET
PROPOSED TYPICAL ASPHALT SECTION
FOUTCH RD
STA 1+12.00 TO STA 2+50.00
ZIPPER RD
STA 6+22.48 TO STA 8+00.00
US 377 SIDESTREET
PROPOSED TYPICAL ASPHALT SECTION WITH CONCRETE MEDIAN
FM 455 W
STA 2+00.00 TO STA 3+13.13
EXIST ROW
PROP ROW
PROPOSED ROW
EXISTING ROW
BORDER
ROADWAY
SHLDR
LANE
TWLTL
MEDIAN
SHRD LN
LTL
RTL
SW
CO
2% (USUAL)
1.5%
6:1 (USUAL)
4:1 (USUAL)
4:1 MAX
3:1 MAX
CURB (TY II) (TYP)
PGL
2 COURSE SURFACE TREATMENT
12" BASE
2" (TY C) ACP SURFACE
2" (TY C) ACP LEVEL UP/OVERLAY
2" (TY B) ACP LEVEL UP/OVERLAY
1' RAIL (NOMINAL)
RETAINING WALL
CONC RIP RAP
2' RAISED MEDIAN

TYPICAL SECTIONS


ZIPPER RD
US 377
US 377
FM 455 E
400
700
(1,000)
400
700
(1,000)
100
200
(300)
200
300
(400)
100
200
(300)
8,900
12,500
(14,300)
100
200
(300)
6,800
9,500
(10,900)
800
1,200
(1,300)
7,700
10,900
(12,500)
8,700
12,300
(13,900)
200
300
(400)
6,600
9,300
(10,400)
1,900
2,700
(3,100)
1,900
2,700
(3,000)
800
1,100
(1,300)
100
200
(300)
7,500
10,600
(12,000)
2,800
4,100
(4,700)
2,800
4,000
(4,600)

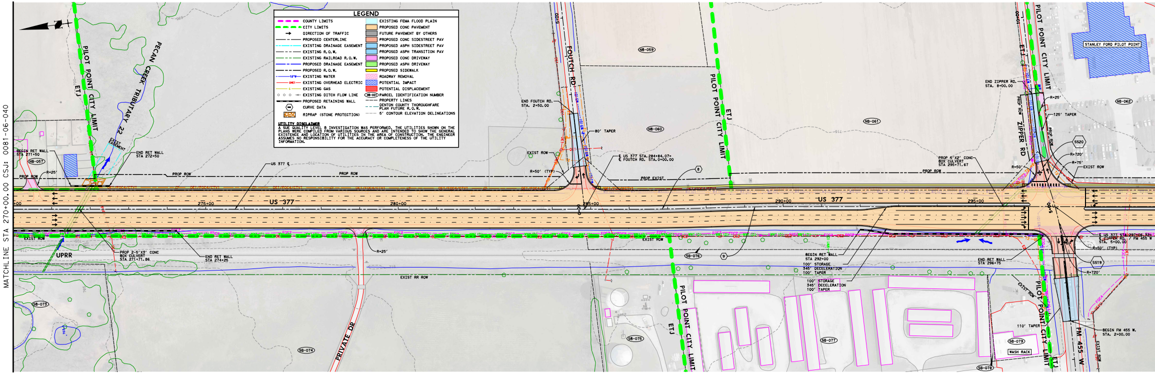
LEGEND

999-YEAR 2025 ADT
999-YEAR 2045 ADT
(999)-YEAR 2055 ADT

N.T.S.

TxDOT TPP APPROVAL GRANTED 09-22-2020
TRAFFIC DATA PROVIDED BY OTHON, INC. ON 07-13-2020

TRAFFIC DIAGRAMS


MATCHLINE STA 270+00.00 CSJ: 0081-06-040
PILOT POINT CITY LIMIT
ETJ
PECAN CREEK TRIBUTARY 22
EXIST EASEMENT
BEGIN RET WALL
STA 271+50
END RET WALL
STA 272+50
NB-057
R=25'
PROP ROW
US 377 ℄
275+00
US 377
280+00
285+00
290+00
295+00
EXIST ROW
UPRR
PROP 2-5'X3' CONC
BOX CULVERT
STA 271+71.86
END RET WALL
STA 274+25
SB-073
SB-074
R=25'
EXIST RR ROW
PRIVATE DR
FOUTCH RD
END FOUTCH RD.
STA. 2+50.00
80' TAPER
EXIST ROW
R=50' (TYP)
℄ US 377 STA.284+84.07=
℄ FOUTCH RD. STA.0+00.00
8
PROP EXIST
NB-059
NB-060
NB-061
PILOT POINT CITY LIMIT
ETJ
9
SB-076
SB-075
SB-077
SB-078
SB-079
WASH RACK
BEGIN RET WALL
STA 292+00
100' STORAGE
345' DECELERATION
100' TAPER
100' STORAGE
345' DECELERATION
100' TAPER
END RET WALL
STA 296+75
PROP 5'X2' CONC
BOX CULVERT
STA 295+71.67
PROP ROW
END ZIPPER RD.
STA. 8+00.00
PROP ROW
ZIPPER RD
R=25'
125' TAPER
SS20
R=720'
R=75'
R=50'
EXIST ROW
STANLEY FORD PILOT POINT
NB-062
℄ US 377 STA.297+06.32=
℄ ZIPPER RD. / FM 455 W
STA. 5+00.00
R=50' (TYP)
SS19
R=720'
EXIST ROW
110' TAPER
BEGIN FM 455 W.
STA. 2+00.00
FM 455 W
EXIST ROW
5+00

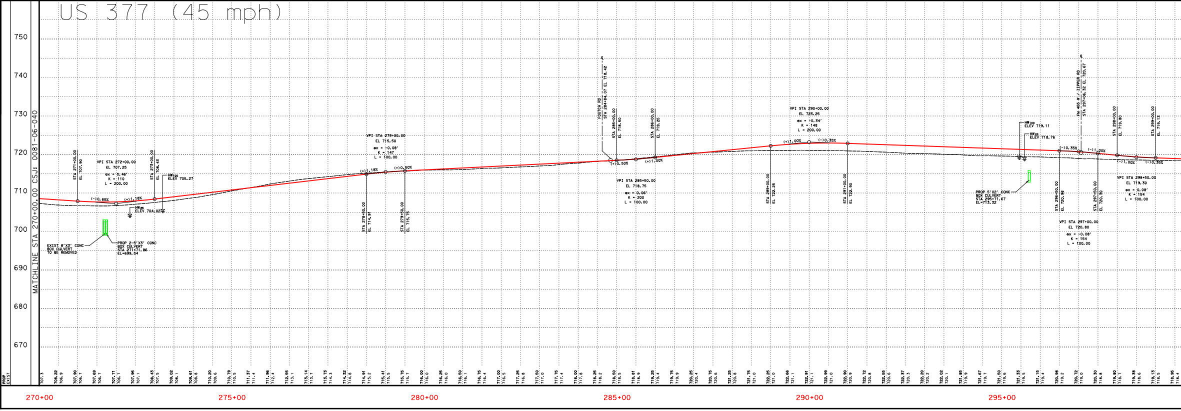
LEGEND

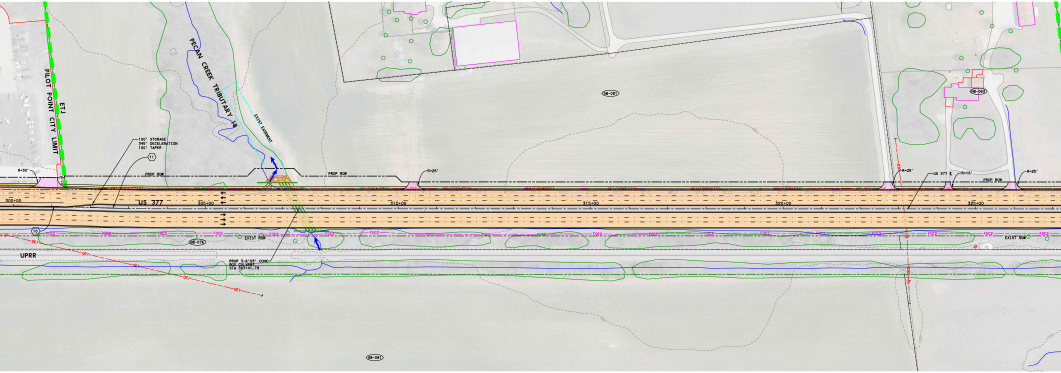
	COUNTY LIMITS		EXISTING FEMA FLOOD PLAIN
	CITY LIMITS		PROPOSED CONC PAVEMENT
→	DIRECTION OF TRAFFIC		FUTURE PAVEMENT BY OTHERS
	PROPOSED CENTERLINE		PROPOSED CONC SIDESTREET PAV
	EXISTING DRAINAGE EASEMENT		PROPOSED ASPH SIDESTREET PAV
	EXISTING R.O.W.		PROPOSED ASPH TRANSITION PAV
	EXISTING RAILROAD R.O.W.		PROPOSED CONC DRIVEWAY
	PROPOSED DRAINAGE EASEMENT		PROPOSED ASPH DRIVEWAY
	PROPOSED R.O.W.		PROPOSED SIDEWALK
12"W	EXISTING WATER		ROADWAY REMOVAL
OHE1	EXISTING OVERHEAD ELECTRIC		POTENTIAL IMPACT
G	EXISTING GAS		POTENTIAL DISPLACEMENT
○ ○ ○ ←	EXISTING DITCH FLOW LINE	NB-001	PARCEL IDENTIFICATION NUMBER
	PROPOSED RETAINING WALL		PROPERTY LINES
⬡	CURVE DATA		DENTON COUNTY THOROUGHFARE PLAN FUTURE R.O.W.
	RIPRAP (STONE PROTECTION)		5' CONTOUR ELEVATION DELINEATIONS

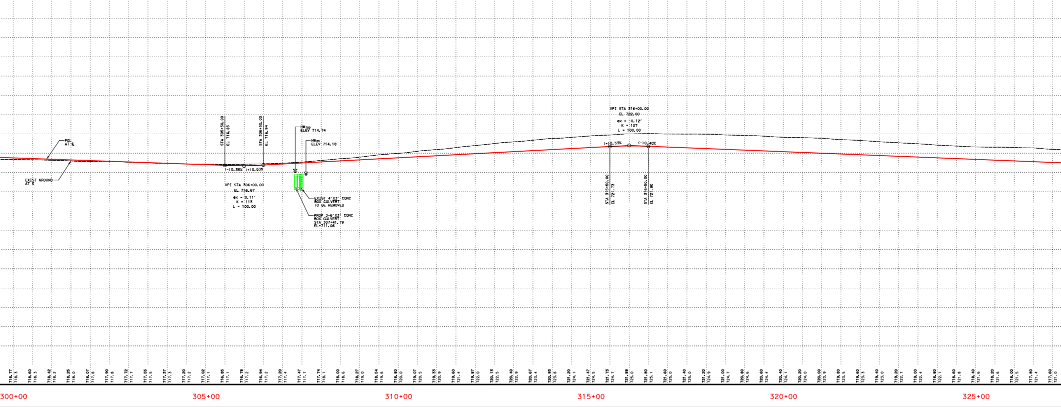
UTILITY DISCLAIMER

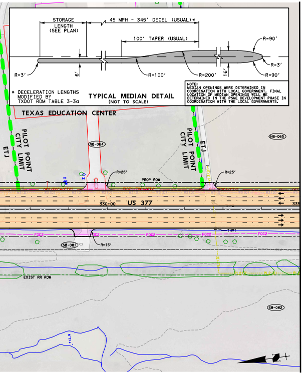
A SUE QUALITY LEVEL B INVESTIGATION WAS PERFORMED. THE UTILITIES SHOWN ON THE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF UTILITIES IN THE AREA OF CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE UTILITY INFORMATION.

US 377 (45 mph)




PECAN CREEK TRIBUTARY 18
EXIST EASEMENT
PILOT POINT CITY LIMIT
ETJ
100' STORAGE
345' DECELERATION
100' TAPER
11
10
R=30'
PROP ROW
R=25'
R=15'
US 377 ℄
US 377
300+00
305+00
310+00
315+00
320+00
325+00
SB-081
NB-063
SB-076
FOC2
OE1
OE2
W3(D)
EXIST ROW
UPRR
PROP 3-6'X3' CONC
BOX CULVERT
STA 307+41.79

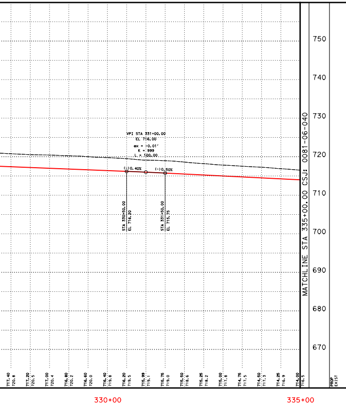

PGL
AT ℄
EXIST GROUND
AT ℄
STA 305+50.00
EL 716.85
STA 306+50.00
EL 716.94
(-)0.35%
(+)0.53%
VPI STA 306+00.00
EL 716.67
ex = 0.11'
K = 113
L = 100.00
HW_{100}
ELEV 714.74
HW_{25}
ELEV 714.18
EXIST 4'X3' CONC
BOX CULVERT
TO BE REMOVED
PROP 3-6'X3' CONC
BOX CULVERT
STA 307+41.79
EL=711.06
VPI STA 316+00.00
EL 722.00
ex = -0.12'
K = 107
L = 100.00
(+)0.53%
(-)0.40%
STA 315+50.00
EL 721.73
STA 316+50.00
EL 721.80
718.77 718.3
718.60 718.3
718.42 718.2
718.25 718.0
718.07 717.8
717.90 717.8
717.72 717.7
717.55 717.5
717.37 717.3
717.20 717.2
717.02 717.1
716.85 717.1
716.78 717.2
716.94 717.2
717.20 717.4
717.47 717.7
717.74 718.1
718.00 718.6
718.27 719.0
718.54 719.6
718.80 720.0
719.07 720.5
719.33 720.9
719.60 721.4
719.87 722.0
720.13 722.5
720.40 722.9
720.67 723.4
720.93 723.8
721.20 724.1
721.47 724.5
721.73 724.7
721.88 725.0
721.80 725.1
721.60 725.0
721.40 725.0
721.20 724.9
721.00 724.7
720.80 724.6
720.60 724.4
720.40 724.1
720.20 724.0
720.00 723.9
719.80 723.5
719.60 723.3
719.40 723.0
719.20 722.7
719.00 722.4
718.80 722.1
718.60 721.8
718.40 721.6
718.20 721.6
718.00 721.5
717.80 721.4
717.60 721.0
300+00
305+00
310+00
315+00
320+00
325+00


STORAGE LENGTH (SEE PLAN)
45 MPH - 345' DECEL (USUAL)*
100' TAPER (USUAL)
R=90'
R=3'
R=3'
6'
R=100'
R=200'
16'
R=90'
TEXAS EDUCATION CENTER
PILOT POINT CITY LIMIT
ETJ
NB-064
NB-065
R=25'
PROP ROW
330+00
US 377
335
TH#1
FOC2
SB-081
R=15'
EXIST RR ROW
SB-082
712.8
MATCHLINE STA 335+00.00 CSJ: 0081-06-040

TYPICAL MEDIAN DETAIL
(NOT TO SCALE)

* DECELERATION LENGTHS MODIFIED BY TXDOT RDM TABLE 3-3a

NOTE:
MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.



CURVE DATA TABLE

CENTERLINE US 377 CURVE DATA

CURVE NO.	CURVE	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
8	P_377-8	287+05.62	7186168.14	2437817.89	1° 52' 59.63" (LT)	6480.00	0° 53' 03.10"	106.50	212.99	S 6° 48' 25.67" W	212.98	285+99.11	288+12.10	S 7° 44' 55.48" W	S 5° 51' 55.85" W
9	P_377-9	289+18.61	7185956.25	2437796.13	1° 52' 59.63" (RT)	6480.00	0° 53' 03.10"	106.50	212.99	S 6° 48' 25.67" W	212.98	288+12.10	290+25.09	S 5° 51' 55.85" W	S 7° 44' 55.48" W
10	P_377-10	300+93.17	7184792.39	2437637.76	1° 52' 59.63" (RT)	6480.00	0° 53' 03.10"	106.50	212.99	S 8° 41' 25.30" W	212.98	299+86.66	301+99.65	S 7° 44' 55.48" W	S 9° 37' 55.12" W
11	P_377-11	303+06.16	7184582.39	2437602.12	1° 52' 59.63" (LT)	6480.00	0° 53' 03.10"	106.50	212.99	S 8° 41' 25.30" W	212.98	301+99.65	304+12.64	S 9° 37' 55.12" W	S 7° 44' 55.48" W

CENTERLINE FM 455 W CURVE DATA

CURVE NO.	CURVE	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
SS19	P_ZIPPER1	4+62.66	7185166.77	2437652.81	13° 05' 40.58" (LT)	762.00	7° 31' 08.87"	87.46	174.15	N 85° 24' 33.63" E	173.77	3+75.20	5+49.35	S 88° 02' 36.08" E	N 78° 51' 43.34" E

CENTERLINE ZIPPER RD CURVE DATA

CURVE NO.	CURVE	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
SS20	P_ZIPPER2	6+32.43	7185199.71	2437820.12	12° 26' 38.23" (RT)	762.00	7° 31' 08.87"	83.08	165.50	N 85° 05' 02.46" E	165.17	5+49.35	7+14.85	N 78° 51' 43.34" E	S 88° 41' 38.43" E

OWNER INFORMATION TABLE

PARCEL NO.	OWNER'S NAME	SITUS ADDRESS	ACRES
NB-057	STUCKEY, DOROTHY LIFE ESTATE &	1311 S US 377	1.00
NB-058	GENE MCCUTCHIN LTD III	FOUTCH RD	121.96
NB-059	S & W HUGGETT LLC	-	7.14
NB-060	PUGA, ERNESTO	S US 377	2.61
NB-061	S & W HUGGETT LLC	S US 377	27.10
NB-062	AUTOMOTIVE PROPERTIES, LP	11590 US 377	15.00
NB-063	REDFEARN, CALVIN DAVID	11100 US 377	18.84
NB-064	TEXAS CONFERENCE ASSOC OF SEVENTH-DAY ADVENTISTS	11010 US 377	18.84
NB-065	MARTINEZ, NANCY J	US 377	18.84
SB-062	PILOT POINT, CITY OF	1214 S US 377	0.84
SB-073	EDWARDS, SCOTT	11670 MASSEY RD	49.95
SB-074	ROBERTS, EUGENE A III & ALICE FAY	1324 S US 377	35.72
SB-075	MUSTANG WATER SUPPLY	S US 377	1.70
SB-076	TEXAS & PACIFIC RAILWAY CO.	-	9.00
SB-077	KERN, PETER C	10279 FM 455 E	13.42
SB-078	THE WASH RAAK LLC	-	0.10
SB-079	THE WASH RAAK LLC	10359 FM 455 E	0.58
SB-081	DAUGHERTY, CAROLYN JEAN TR DAUGHERTY LIVING TRUST	HWY 377	133.93
SB-082	CALDWELL, ELINOR H, TRS CALDWELL FAMILY TRUST	MASSEY RD	73.50

SUPERELEVATION TABLE

SOUTHBOUND STATION	SUPERELEVATION e%	NORTHBOUND STATION	SUPERELEVATION e%
291+90.00	-2.0%		
293+20.00	-1.0%		
294+25.00	1.0%		
295+50.00	2.0%		
299+20.00	2.0%		
300+50.00	1.0%		
301+50.00	-1.0%		
302+40.00	-2.0%		

NOTES:

1. PROPERTY OWNERSHIP DATA FROM D.C.A.D. 10-29-2019.
2. EXISTING TOPO CURRENT AS OF 10-19-17.
3. MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
5. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB (UNLESS NOTED OTHERWISE).
6. EXISTING CULVERT LOCATIONS, SIZE AND ELEVATIONS WERE OBTAINED FROM RECORD DOCUMENTS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
7. 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.
8. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
9. CURBS ON THE CROSS STREETS ARE TYPE II (UNLESS NOTED OTHERWISE).
10. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.

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TEXAS DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT

MOHAMED K. BUR, P.E. DISTRICT ENGINEER

DESIGN SCHEMATIC

URBAN PRINCIPAL ARTERIAL

DENTON COUNTY

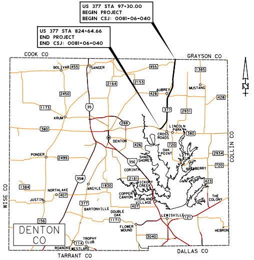
US 377

FROM: NORTH OF BUS 377E
TO: US 380
PROJECT LENGTH: 13.776 MILES (72,734.66 FT)

CSJ: 0081-06-040

ROADWAY SECTION	DESIGN SPEED	FUNCTIONAL CLASS
US 377	45 MPH	URBAN PRINCIPAL ARTERIAL
FOUTCH RD	30 MPH	LOCAL
ZIPPER RD	30 MPH	LOCAL
FM 455 W	30 MPH	MINOR ARTERIAL

PROJECT LOCATION


US 377 STA 97+30.00
BEGIN PROJECT
BEGIN CSJ: 0081-06-040
US 377 STA 824+64.66
END PROJECT
END CSJ: 0081-06-040
COOK CO
GRAYSON CO
COLLIN CO
WISE CO
TARRANT CO
DALLAS CO
DENTON CO
BOLIVAR
SANGER
MUSTANG
AUBREY
KRUM
DENTON
PONDER
CROSS ROADS
LINCOLN PARK
OAK POINT
SHADY SHORES
CORINTH
HACKBERRY
NORTHLAKE
ARGYLE
JUSTIN
HICKORY CREEK
COPPER CANYON
HIGHLAND VILLAGE
BARTONVILLE
DOUBLE OAK
LEWISVILLE
THE COLONY
FLOWER MOUND
TROPHY CLUB
ROANOKE
WESTLAKE
HEBRON
455
1385
2164
2153
428
2450
35
377
2931
426
1173
288
380
720
2934
2499
35E
2181
423
35W
1830
1384
407
156
2499
3040
114
121
1171
N

PREPARED BY TEAGUE NALL AND PERKINS, INC.
FIRM REGISTRATION NUMBER 230

Dustin C. Ogle
91101
10/7/2020
Dustin C. Ogle

08/31/2020
DATE APPROVED

ROLL 4 of 15

OCTOBER 2020

50 0 50 100
HORIZONTAL SCALE 1" = 100'
VERTICAL SCALE 1" = 10'
SCALE IN FEET