Texas Department of Transportation
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DALLAS DISTRICT

DESIGN SCHEMATIC

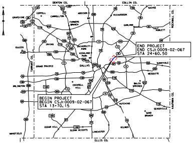
MOHAMED K. BUR, PE DISTRICT ENGINEER

SH 78 AT GASTON AVENUE

CSJ LIMITS 0009-02-067: AT GASTON AVE.		
PROJECT LENGTH:		0.207 MILES
AVERAGE DAILY TRAFFIC:		(SEE TRAFFIC DIAGRAM)
ROADWAY	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
SH 78 (E. GRAND AVE.)	30 MPH	URBAN PRINCIPAL ARTERIAL
SH 78 (GARLAND RD.)	30 MPH	URBAN PRINCIPAL ARTERIAL
GASTON AVE.	30 MPH	URBAN MINOR ARTERIAL
LA VISTA DR.	30 MPH	URBAN MAJOR COLLECTOR
WINSTED DR.	30 MPH	URBAN MINOR COLLECTOR
CROSS STREETS	30 MPH	URBAN LOCAL STREET

BASIS OF DESIGN: TxDOT ROADWAY DESIGN MANUAL 2014
EQUATIONS: NONE RAILROADS: NONE DESIGN EXCEPTIONS: YES

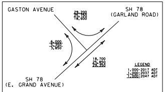
ALL COORDINATES SHOWN HEREON ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM OF 1983, TEXAS NORTH CENTRAL ZONE NO. 4202, NORTH AMERICAN DATUM OF 1983 (NAD83) AS DETERMINED BY GPS OBSERVATIONS USING THE TXDOT VRS NETWORK, GEOID 12A MODEL WITH A GRID-TO-SURFACE CONVERSION FACTOR OF 1.000136506 (DALLAS COUNTY). ELEVATIONS ARE BASED ON NAVD 1988 BY TXDOT GPS VRS RTK OBSERVATIONS.


DENTON CO.
COLLIN CO.
ROCKWALL CO.
KAUFMAN CO.
TARRANT CO.
ELLIS CO.
N
GRAPEVINE
COPPELL
CARROLLTON
ADDISON
RICHARDSON
SACHSE
GARLAND
ROWLETT
FARMERS BRANCH
IRVING
UNIVERSITY PARK
HIGHLAND PARK
EULESS
GRAND PRAIRIE
DALLAS
SUNNYVALE
MESQUITE
ARLINGTON
COCKRELL HILL
BALCH SPRINGS
HUTCHINS
SEAGOVILLE
SAND BRANCH
CEDAR HILL
GLENN HEIGHTS
LANCASTER
WILMER
MANSFIELD
END PROJECT
END CSJ:0009-02-067
STA 24+60.50
BEGIN PROJECT
BEGIN CSJ:0009-02-067
STA 13+70.15

LOCATION MAP: NTS
DALLAS COUNTY

SUBMITTAL: NOVEMBER 2018

PRELIMINARY
FOR INTERIM REVIEW ONLY.
NOT FOR PERMITTING, BIDDING, OR CONSTRUCTION.
Prepared by or under the Direct Supervision of
CAREN D. CHAMBERS P.E. 99772
11/12/2018


GASTON AVENUE
SH 78
(GARLAND ROAD)
29,200
25,750
18,600
6,000
5,350
3,850
18,700
25,850
29,350
SH 78
(E. GRAND AVENUE)
LEGEND
1,000-2017 ADT
1,000-2037 ADT
1,000-2047 ADT

TEXAS DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROGRAMMING AND PLANNING DIVISION MEMORANDUM
JUNE 22, 2016

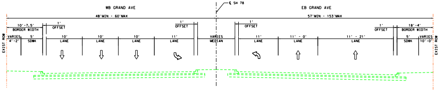
SCHEMATIC PLAN & PROFILE

SH 78 AT GASTON AVE

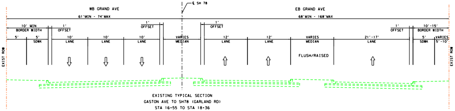
ROLL 1 OF 1 ROLLS

Michael Baker
INTERNATIONAL
1501 LBJ Freeway, Suite 650,
Dallas, TX 75234
Phone: (469)801-8500
MBAKERINTL.COM
TBPE Registration No. F-2677

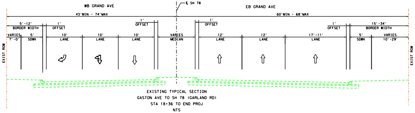
TIME: 3:39:18 PM
PEN TABLE - @PENTABLE@
DATE: 11/12/2018
FILE: ...\78LSPP+SCHEMATIC+02-01.dgn
ROLLPLOT - @PLTDRVL@


WB GRAND AVE
℄ SH 78
EB GRAND AVE
48'MIN - 60'MAX
57'MIN - 153'MAX
10'-7.5'
BORDER WIDTH
1'
OFFSET
1'
OFFSET
1'
OFFSET
1'
OFFSET
18'-4'
BORDER WIDTH
VARIES
4'-2'
5'
SDWK
10'
LANE
10'
LANE
10'
LANE
11'
LANE
VARIES
MEDIAN
11'
LANE
11' - 0'
LANE
11' - 21'
LANE
5'
SDWK
VARIES
10'-0'
EXIST ROW
EXIST ROW

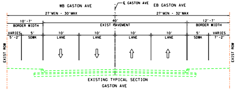
EXISTING TYPICAL SECTION
SH 78 (GRAND AVE)
BEG PROJ TO STA 109+25
NTS


WB GRAND AVE
℄ SH 78
EB GRAND AVE
61'MIN - 74'MAX
68'MIN - 168'MAX
10' MIN
BORDER WIDTH
1'
OFFSET
1'
OFFSET
1'
OFFSET
1'
OFFSET
10'-15'
BORDER WIDTH
5'
5'
SDWK
10'
LANE
10'
LANE
10'
LANE
VARIES
MEDIAN
12'
LANE
12'
LANE
VARIES
MEDIAN
FLUSH/RAISED
21'-17'
LANE
5'
SDWK
VARIES
5'-10'
EXIST ROW
EXIST ROW

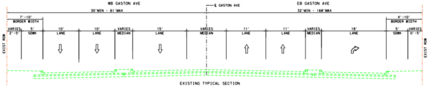
EXISTING TYPICAL SECTION
GASTON AVE TO SH78 (GARLAND RD)
STA 16+55 TO STA 18+36
NTS


WB GRAND AVE
℄ SH 78
EB GRAND AVE
43'MIN - 74'MAX
60'MIN - 68'MAX
5'-12'
BORDER WIDTH
1'
OFFSET
1'
OFFSET
1'
OFFSET
1'
OFFSET
15'-34'
BORDER WIDTH
VARIES
7'-0'
5'
SDWK
10'
LANE
10'
LANE
10'
LANE
VARIES
MEDIAN
12'
LANE
12'
LANE
17'-11'
LANE
5'
SDWK
VARIES
10'-29'
EXIST ROW
EXIST ROW

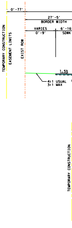
EXISTING TYPICAL SECTION
GASTON AVE TO SH 78 (GARLAND RD)
STA 18+36 TO END PROJ
NTS

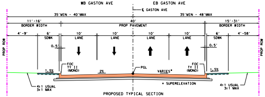

WB GASTON AVE
℄ GASTON AVE
EB GASTON AVE
27'MIN - 30'MAX
27'MIN - 32'MAX
10'-7'
BORDER WIDTH
40'
EXIST PAVEMENT
12'-7'
BORDER WIDTH
VARIES
5'-2'
5'
SDWK
10'
LANE
10'
LANE
10'
LANE
10'
LANE
5'
SDWK
VARIES
7'-2'
EXIST ROW
EXIST ROW

EXISTING TYPICAL SECTION
GASTON AVE
STA 13+70 TO STA 15+26
NTS

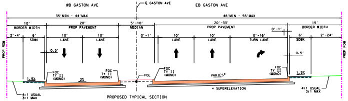

WB GASTON AVE
℄ GASTON AVE
EB GASTON AVE
30'MIN - 61'MAX
32'MIN - 168'MAX
7'-10'
BORDER WIDTH
4'-10'
BORDER WIDTH
VARIES
2'-5'
5'
SDWK
10'
LANE
10'
LANE
VARIES
MEDIAN
15'
LANE
VARIES
MEDIAN
11'
LANE
11'
LANE
VARIES
MEDIAN
18'
LANE
5'
SDWK
VARIES
0'-5'
EXIST ROW
EXIST ROW

EXISTING TYPICAL SECTION
GASTON AVE
STA 15+26 TO STA 16+55
NTS

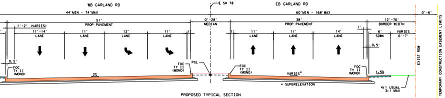

0'-77'
27'-5'
BORDER WIDTH
VARIES
0'-9'
6'-16'
SDWK
TEMPORARY CONSTRUCTION
EASEMENT LIMITS
EXIST ROW
1.5%
4:1 USUAL
3:1 MAX
TEMPORARY CONSTRUCTION


WB GASTON AVE
EB GASTON AVE
℄ GASTON AVE
35'MIN - 40'MAX
35'MIN - 48'MAX
11'-16' BORDER WIDTH
40' PROP PAVEMENT
15'-31' BORDER WIDTH
4'-9'
6' SDWK
10' LANE
10' LANE
10' LANE
10' LANE
6' SDWK
4'-58'
0.5'
0.5'
PROP ROW
PROP ROW
FOC TY II (MONO)
FOC TY II (MONO)
PGL
1.5%
2%
VARIES*
1.5%
4:1 USUAL 3:1 MAX
4:1 USUAL 3:1 MAX
* SUPERELEVATION

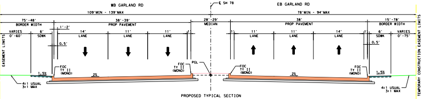
PROPOSED TYPICAL SECTION
GASTON AVE- SH78 (GARLAND RD)
STA 13+70.15 TO STA 14+92.31
NTS


WB GASTON AVE
EB GASTON AVE
℄ GASTON AVE
35'MIN - 44'MAX
48'MIN - 55'MAX
10' BORDER WIDTH
20' PROP PAVEMENT
5'-10' MEDIAN
20'-33' PROP PAVEMENT
15' BORDER WIDTH
2'-4'
6' SDWK
10' LANE
10' LANE
0'-1'
10' LANE
10' LANE
0'-16' TURN LANE
0'-1'
6' SDWK
2'-24'
0.5'
0.5'
PROP ROW
PROP ROW
FOC TY II (MONO)
PGL
1.5%
2%
VARIES*
1.5%
4:1 USUAL 3:1 MAX
4:1 USUAL 3:1 MAX
* SUPERELEVATION

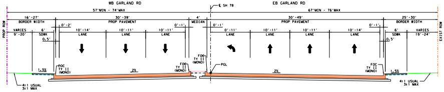
PROPOSED TYPICAL SECTION
GASTON AVE- SH78 (GARLAND RD)
STA 14+92.31 TO STA 16+11.64
NTS


WB GARLAND RD
EB GARLAND RD
℄ SH 78
44'MIN - 74'MAX
60'MIN - 168'MAX
0'-6'
1'-2' (VARIES)
51' PROP PAVEMENT
0'-28' MEDIAN
38' PROP PAVEMENT
12'-76' BORDER WIDTH
11'-14' LANE
11' LANE
12' LANE
11' LANE
11' LANE
11' LANE
14' LANE
1'
6' SDWK
VARIES 6'-7'
0.5'
0.5'
FOC TY II (MONO)
PGL
2%
VARIES*
1.5%
4:1 USUAL 3:1 MAX
* SUPERELEVATION
EXIST ROW
TEMPORARY CONSTRUCTION EASEMENT LIMITS

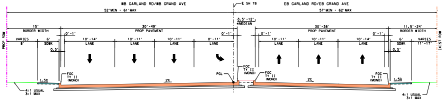
PROPOSED TYPICAL SECTION
GASTON AVE- SH78 (GARLAND RD)
STA 16+11.64 TO STA 19+17.78
NTS


WB GARLAND RD
EB GARLAND RD
℄ SH 78
109'MIN - 139'MAX
78'MIN - 94'MAX
75'-48' BORDER WIDTH
38'-39' PROP PAVEMENT
28'-29' MEDIAN
38' PROP PAVEMENT
15'-78' BORDER WIDTH
1'-2'
VARIES 0'-60'
6' SDWK
14' LANE
11' LANE
11' LANE
11' LANE
11' LANE
14' LANE
6' SDWK
VARIES 0'-75'
0.5'
0.5'
FOC TY II (MONO)
PGL
1.5%
2%
2%
1.5%
4:1 USUAL 3:1 MAX
4:1 USUAL 3:1 MAX
EASEMENT LIMITS
TEMPORARY CONSTRUCTION EASEMENT LIMITS

PROPOSED TYPICAL SECTION
GASTON AVE- SH78 (GARLAND RD)
STA 19+17.78 TO STA 20+15.70 WB
STA 19+17.78 TO STA 19+98.54 EB
NTS

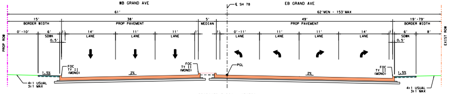

WB GARLAND RD
EB GARLAND RD
℄ SH 78
57'MIN - 74'MAX
67'MIN - 76'MAX
16'-27' BORDER WIDTH
30'-39' PROP PAVEMENT
4' MEDIAN
30'-49' PROP PAVEMENT
25'-30' BORDER WIDTH
0'-2'
VARIES 9'-20'
6' SDWK
10'-14' LANE
10'-11' LANE
10'-11' LANE
0'-1'
0'-1'
0'-11' LANE
10'-11' LANE
10'-11' LANE
10'-14' LANE
0'-1'
6' SDWK
VARIES 19'-24'
0.5'
0.5'
PROP ROW
EXIST ROW
FOC TY II (MONO)
PGL
1.5%
2%
2%
1.5%
4:1 USUAL 3:1 MAX
4:1 USUAL 3:1 MAX

PROPOSED TYPICAL SECTION
GASTON AVE - SH 78 (GARLAND RD)
STA 21+34 TO STA 21+98.43
NTS

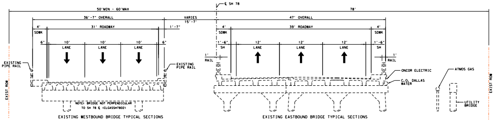

WB GARLAND RD/WB GRAND AVE
EB GARLAND RD/EB GRAND AVE
℄ SH 78
52'MIN - 61'MAX
57'MIN - 62'MAX
15' BORDER WIDTH
30'-49' PROP PAVEMENT
3.5'-12' *MEDIAN
30'-38' PROP PAVEMENT
11.5'-24' BORDER WIDTH
VARIES 8'
6' SDWK
0'-1'
10'-14' LANE
10'-11' LANE
10'-11' LANE
0'-11' LANE
0'-1'
0'-1'
10'-11' LANE
10'-11' LANE
10'-14' LANE
0'-1'
6' SDWK
VARIES 11'-17'
0.5'
0.5'
PROP ROW
EXIST ROW
FOC TY II (MONO)
PGL
1.5%
2%
2%
1.5%
4:1 USUAL 3:1 MAX
4:1 USUAL 3:1 MAX

PROPOSED TYPICAL SECTION
GASTON AVE - SH 78 (GARLAND RD)
STA 21+98.43 TO STA 24+60.50
SH 78 (GRAND AVE)
STA 104+42.80 TO STA 107+02.22
NTS

* NO PROP RAISED MEDIAN
STA 104+42.80 TO STA 105+49.30

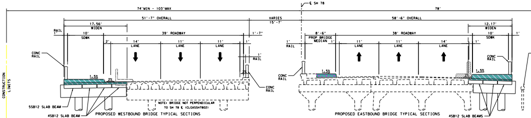

WB GRAND AVE
EB GRAND AVE
℄ SH 78
61'
62'MIN - 153'MAX
15' BORDER WIDTH
38' PROP PAVEMENT
5' MEDIAN
49' PROP PAVEMENT
19'-79' BORDER WIDTH
0'-10'
6' SDWK
14' LANE
11' LANE
11' LANE
0'-11' LANE
11' LANE
11' LANE
14' LANE
6' SDWK
8'
0.5'
0.5'
PROP ROW
EXIST ROW
FOC TY II (MONO)
PGL
1.5%
2%
2%
1.5%
4:1 USUAL 3:1 MAX
4:1 USUAL 3:1 MAX

PROPOSED TYPICAL SECTION
SH 78 (GRAND AVE)
STA 107+02.22 TO STA 108+56.78
NTS


℄ SH 78
50'MIN - 60'MAX
78'
36'-7" OVERALL
VARIES 15'-7"
47' OVERALL
4' SDWK
31' ROADWAY
1'-7"
6"
10' LANE
10' LANE
10' LANE
6"
4' SDWK
39' ROADWAY
4' SDWK
1'-6" SH
12' LANE
12' LANE
12' LANE
1'-6" SH
1' RAIL
1' RAIL
EXISTING PIPE RAIL
EXISTING PIPE RAIL
ONCOR ELECTRIC
C.O. DALLAS WATER
ATMOS GAS
UTILITY BRIDGE
EXIST ROW
EXIST ROW
NOTE: BRIDGE NOT PERPENDICULAR TO SH 78 ℄ (CLGASSH7802)

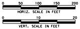
EXISTING WESTBOUND BRIDGE TYPICAL SECTIONS

EXISTING EASTBOUND BRIDGE TYPICAL SECTIONS


℄ SH 78
74'MIN - 103'MAX
78'
51'-7" OVERALL
VARIES 15'-7"
58'-6" OVERALL
17.56' WIDEN
12.17' WIDEN
RAIL
10' SDWK
39' ROADWAY
1'-7"
2'
14' LANE
11' LANE
11' LANE
1'
1' RAIL
8'-6" PROP BRIDGE MEDIAN
1' RAIL
38' ROADWAY
11' LANE
11' LANE
14' LANE
1'
10' SDWK
1'
CONC RAIL
CONC RAIL
CONC RAIL
CONC RAIL
1.5%
2%
1.5%
1.5%
5SB12 SLAB BEAM
4SB12 SLAB BEAM
4SB12 SLAB BEAMS
CONSTRUCTION LIMITS
NOTE: BRIDGE NOT PERPENDICULAR TO SH 78 ℄ (CLGASSH7802)

PROPOSED WESTBOUND BRIDGE TYPICAL SECTIONS
STA 20+15.70 TO STA 21+35.04
BRIDGE WIDENING

PROPOSED EASTBOUND BRIDGE TYPICAL SECTIONS
STA 19+98.54 TO STA 21+35.36
BRIDGE WIDENING


0
50
100
150
200
HORIZ. SCALE IN FEET
0
10
20
VERT. SCALE IN FEET

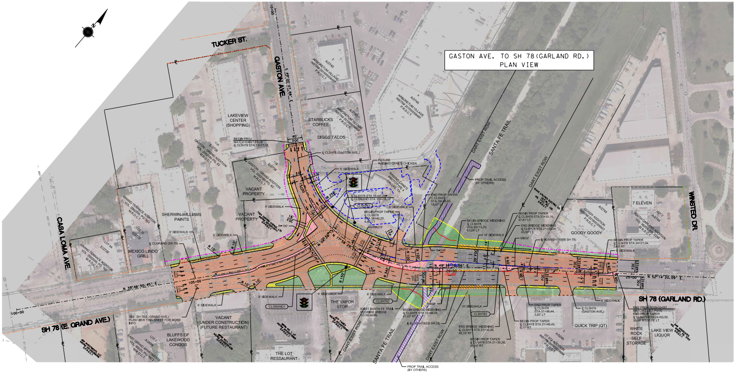
COLOR LEGEND

🟧	PROP PAVEMENT
🟥	PROP RAISED MEDIAN
▨	PROP BRIDGE WIDENING (W/SIDEWALK)
⬜	EXIST BRIDGE TO REMAIN
🟨	PROP BRIDGE MEDIAN
🟨	PROP SIDEWALK
▨	PROP TRAIL ACCESS (BY OTHERS)
🟩	BORDER AREA
—	PROP RETAINING WALL
—·—·—	CENTERLINE OR BASELINE
—··—··	PROP ROW
—·—·—	TEMPORARY CONSTRUCTION EASEMENT LIMITS
—··—··	EXIST ROW
XXXXXXXX	CURVE NUMBER
←	PROP TRAFFIC FLOW
⇦	EXIST TRAFFIC FLOW
🚦	PROP SIGNALIZED INTERSECTION
-----	MBGF

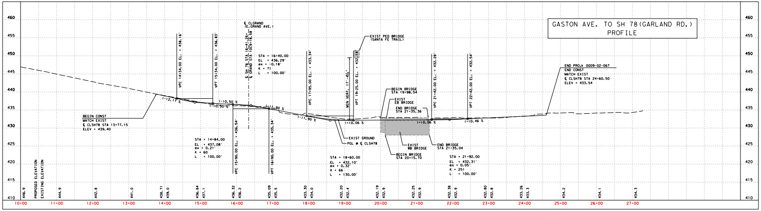
NOTES:

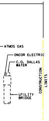
1. MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FNAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.
2. DIMENSION ARE TO NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL UNLESS NOTED OTHERWISE.
3. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM STUDY DOCUMENTS AND ARE SHOWN FOR INFORMATION PURPOSES ONLY.
4. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOUCMENTS AND ARE SHOWN FOR INFROMATION PURPOSES ONLY.
5. ADA RAMPS ARE NOT DEPICTED IN THE PLAN.
6. CURBS ON SH 78 AND GASTON ARE TYPE II UNLES NOTED OTHERWISE.
7. CONVENTIONAL ROADWY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.
8. EXISTING FEATURES FOR CANE'S PROPERTY WERE NOT FIELD SURVEYED.
9. EXACT USE OF THE BORDER AREA FROM THE SIDEWALK TO THE RIGHT-OF-WAY LINE WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE ADJACENT PROPERTY OWNER AND THE LOCAL GOVERNMENT.

GASTON AVE. TO SH 78(GARLAND RD.) PLAN VIEW

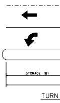

N
TUCKER ST.
GASTON AVE.
S 49°00'07.88" E
10+00
CASA LOMA AVE.
SH 78 (E. GRAND AVE.)
SH 78 (GARLAND RD.)
WINSTED DR.
N 39°46'50.45" E
N 49°39'10.56" E
N 52°14'20.09" E
100+00
105+00
20+00
10+00
25+00
LAKEVIEW CENTER (SHOPPING)
STARBUCKS COFFEE
DIGGS TACOS
ARBORETUM VILLAGE INSTR# 201500008407 P.R.D.C.T.
A/2745
GASTON - GRAND ADDITION VOL. 2002180 PG. 62 M.R.D.C.T.
E/2738
SHERWIN-WILLIAMS PAINTS
VACANT PROPERTY
MEXICO LINDO GRILL
GRAND TERRACE ADDITION VOL. 2002009, PG. 102 M.R.D.C.T.
BEGIN PROJ
MATCH EXIST PAVE
℄ CLSH78 STA 13+77.15
40'
FOC
℄ CLSH78 (GASTON AVE.)
FUTURE RAISING CANE'S CHICKEN
RAISING CANE'S PROTOTYPE 4 DALLAS, TX
6' SIDEWALK
℄ CLSH78 STA 16+41.26=
℄ CLGRAND STA 109+18.58
CLSH781
BEGIN PROP TAPER
℄ CLSH78
STA 16+42.20, 4.86' LT
R=578'
R=100'
R 250'
16' FOC
R 10'
℄ CLGRAND (SH 78)
CLGRAND1
SEE SH 78 (E. GRAND AVE.) PLAN VIEW THIS SHEET FOR MORE INFO
VACANT (UNDER CONSTRUCTION) (FUTURE RESTAURANT)
BLUFFS OF LAKEWOOD CONDOS
EAST GRAND APARTMENTS VOL. 86025, PG. 1623 M.R.D.C.T.
THE LOT RESTAURANT
THE VAPOR STOP
R 150
15' TYP
R 342'
CLSH782
EXIST SANTA FE TRAIL PED/BIKE BRIDGE TO REMAIN
DART EXIST ROW
SANTA FE TRAIL
PROP TRAIL ACCESS (BY OTHERS)
END PROP TAPER
℄ CLSH78
STA 19+78.93, 18.47' LT
BEGIN BRIDGE WIDENING
℄ CLSH78
STA 20+15.70, 51.24' LT
BEGIN BRIDGE WIDENING
℄ CLSH78 STA 19+98.54, 47.03' RT
℄ BLEBSH78 (EB SH 78)
℄ BLWBSH78 (WB SH 78)
10' SIDEWALK
MBGF
R=250'
R=338'
R 100'
39' FOC
38' FOC
BEGIN PROP TAPER
℄ CLSH78 STA 21+35.16, 47.81' LT
END BRIDGE WIDENING
℄ CLSH78 STA 21+35.04, 43.90' LT
END BRIDGE WIDENING
℄ CLSH78 STA 21+35.36, 46.15' RT
BEGIN PROP TAPER
℄ CLSH78 STA 21+35.38, 46.65' RT
CLSH783
END PROP TAPER
℄ CLSH78
STA 21+96.44, 3.93' LT
BEGIN PROP TAPER
℄ CLSH78 STA 21+46.45, 8.17' RT
R 60'
FOC VARIES
TEXAS UTILITIES ELECTRIC CO
GOODY GOODY
GOODY ADDITION INSTR# 201600356927 P.R.D.C.T.
A/2744
7 ELEVEN
SOUTH GARLAND ADDITION VOL. 86209, PG. 2269 M.R.D.C.T.
BEGIN PROP TAPER
℄ CLSH78 STA 24+21.04, 3.40' RT
℄ CLSH78 (GASTON AVE.)
QUICK TRIP (QT)
QT 972 ADDITION INSTR# 200900209684 P.R.D.C.T.
A/5249
END PROJ: 0009-02-067
MATCH EXIST PAVE
END PROP TAPER
℄ CLSH78 STA 24+60.50, 30.58' RT/39.78' LT
WHITE ROCK SELF STORAGE
LAKE VIEW LIQUOR

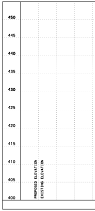
GASTON AVE. TO SH 78(GARLAND RD.) PROFILE

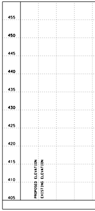

460
455
450
445
440
435
430
425
420
415
410
BEGIN CONST
MATCH EXIST
℄ CLSH78 STA 13+77.15
ELEV = 439.40
(-)2.17 %
VPC 14+34.00 EL. = 438.16'
VPT 15+34.00 EL. = 436.83'
STA = 14+84.00
EL = 437.08'
ex = 0.21'
K = 60
L = 100.00'
(-)0.50 %
VPC 15+90.00 EL. = 436.54'
VPT 16+90.00 EL. = 435.34'
℄ CLGRAND
(E. GRAND AVE.)
℄ SH 78 STA 16+41.26=
℄ GRAND STA 109+18.58
STA = 16+40.00
EL = 436.29'
ex = -0.18'
K = 71
L = 100.00'
(-)1.90 %
VPC 17+95.00 EL. = 433.34'
STA = 18+60.00
EL = 432.10'
ex = 0.32'
K = 66
L = 130.00'
MIN VERT. 17'-4½"
VPT 19+25.00 EL. = 432.14
EXIST PED BRIDGE (SANTA FE TRAIL)
EXIST GROUND
PGL @ ℄ CLSH78
(+)0.06 %
BEGIN BRIDGE STA 19+98.54
EXIST EB BRIDGE
END BRIDGE STA 21+35.36
EXIST WB BRIDGE
BEGIN BRIDGE STA 20+15.70
END BRIDGE STA 21+35.04
VPC 21+42.00 EL. = 432.28'
VPT 22+42.00 EL. = 432.54'
STA = 21+92.00
EL = 432.31'
ex = 0.05'
K = 251
L = 100.00'
(+)0.46 %
END PROJ: 0009-02-067
END CONST
MATCH EXIST
℄ CLSH78 STA 24+60.50
ELEV = 433.54
PROPOSED ELEVATION
EXISTING ELEVATION
446.9
444.9
442.8
441.0
438.71
439.0
436.84
437.1
436.32
436.2
435.09
435.5
433.30
434.0
432.20
432.4
432.19
432.9
432.25
432.9
432.38
432.9
432.80
432.8
433.26
433.3
434.2
434.1
434.3
10+00
11+00
12+00
13+00
14+00
15+00
16+00
17+00
18+00
19+00
20+00
21+00
22+00
23+00
24+00
25+00
26+00
27+00


ATMOS GAS
ONCOR ELECTRIC
C.O. DALLAS WATER
UTILITY BRIDGE
CONSTRUCTION LIMITS

CHAIN NAME	CURVE NAME
℄ SH78	CLSH781
℄ SH78	CLSH782
℄ SH78	CLSH783
℄ GRAND	CLGRAND01

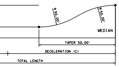

STORAGE (B)
TURN


450
445
440
435
430
425
420
415
410
405
400
PROPOSED ELEVATION
EXISTING ELEVATION


455
450
445
440
435
430
425
420
415
410
405
PROPOSED ELEVATION
EXISTING ELEVATION

HORIZONTAL ALIGNMENT DATA

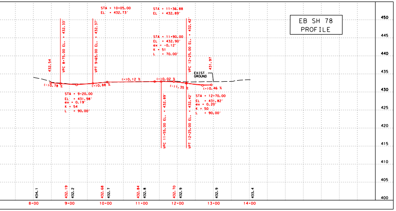
P.I. STATION	P.I. EASTING	P.I. NORTHING	RADIUS	DELTA	LENGTH	TANGENT	P.C. STATION	P.T. STATION
15+94.88	2,512,645.46	6,983,586.19	330.00'	53° 01' 22.87" LT	308.17'	166.11'	14+28.77	17+36.94
18+45.28	2,512,913.89	6,983,643.37	333.00	28° 19' 18.69" LT	164.61'	84.02'	17+61.26	19+25.87
20+10.40	2,513,118.56	6,983,817.23	1,500.00	2° 35' 09.52" RT	67.70'	33.86'	20+76.54	21+44.24
108+02.77	2,512,703.30	6,983,492.27	333.00'	35° 20' 37.84" LT	205.42'	106.09'	106+96.67	109+02.09

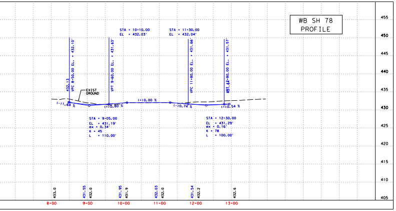

R 50.00'
R 50.00'
MEDIAN
TAPER 50.00'
DECELERATION (C)
TOTAL LENGTH

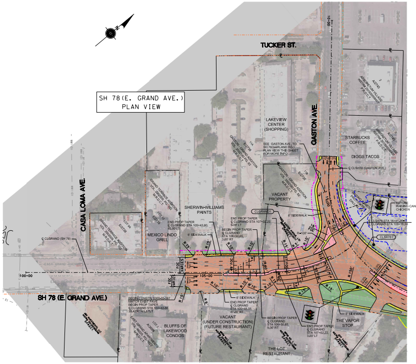
LANE DETAIL

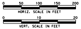
TURN LANE DETAIL TABLE

CROSS STREET	MEDIAN NOSE STA	MEDIAN NOSE RADIUS (FT)	STORAGE (FT)	DECELERATION (FT)	TOTAL LENGTH (FT)	L/R	DIRECTION
		(A)	(B)	(C)			
GRAND AVE	17+26.02	3	110	75	185	L	WB
GARLAND RD	22+98.43	3	102	50	162	R	EB
GRAND AVE	108+56.78	3	150	20	170	L	NB
GRAND AVE	105+48.80	3	100	50	150	R	SB



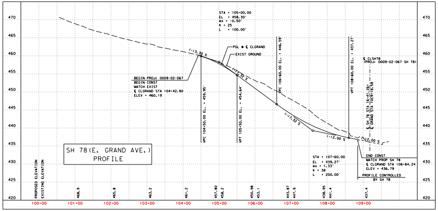



SH 78 (E. GRAND AVE.)
PLAN VIEW
TUCKER ST.
GASTON AVE.
CASA LOMA AVE.
SH 78 (E. GRAND AVE.)
LAKEVIEW CENTER (SHOPPING)
SEE GASTON AVE. TO SH 78(GARLAND RD.) PLAN VIEW THIS SHEET FOR MORE INFO
STARBUCKS COFFEE
DIGGS TACOS
VACANT PROPERTY
SHERWIN-WILLIAMS PAINTS
MEXICO LINDO GRILL
FUTURE RAISING CANE'S CHICKEN
BLUFFS OF LAKEWOOD CONDOS
VACANT (UNDER CONSTRUCTION) (FUTURE RESTAURANT)
THE VAPOR STOP
THE LOT RESTAURANT
ARBORETUM VILLAGE
GASTON - GRAND ADDITION
GRAND TERRACE ADDITION
EAST GRAND APARTMENTS
℄ CLGRAND (SH 78)
℄ CLSH78 (GASTON AVE.)
CLGRAND1
CLSH781
℄ CLSH78 STA 16+41.26 = ℄ CLGRAND STA 109+18.58
END PROP TAPER ℄ CLGRAND STA 105+42.80, 46.00' LT
END PROP TAPER ℄ CLGRAND STA 107+02.22, 9.00' LT
BEGIN PROP TAPER ℄ CLGRAND STA 106+50.65, 3.00' RT
BEGIN CONSTR 0009-02-067 MATCH EXIST PAVE BEGIN PROP TAPER ℄ CLGRAND STA 104+42.80, 33.42' RT/41.87' LT
END PROP TAPER ℄ CLGRAND STA 106+48.56, 47.00' RT
BEGIN PROP TAPER ℄ CLGRAND STA 106+50.65, 9.00' RT
END PROP TAPER ℄ CLGRAND STA 107+02.22, 3.00' LT
6' SIDEWALK
FOC VARIES
100+00
105+00
10+00
R 15'
R 10'
R 6'
R 5'
R 60'
R 150'
R=100'
16' FOC
49' FOC
2.0%


0
50
100
150
200
HORIZ. SCALE IN FEET
0
10
20
VERT. SCALE IN FEET

COLOR LEGEND

🟧	PROP PAVEMENT
🟥	PROP RAISED MEDIAN
▨	PROP BRIDGE WIDENING (W/SIDEWALK)
⬜	EXIST BRIDGE TO REMAIN
▨	PROP BRIDGE MEDIAN
🟨	PROP SIDEWALK
▨	PROP TRAIL ACCESS (BY OTHERS)
🟩	BORDER AREA
—	PROP RETAINING WALL
— · —	CENTERLINE OR BASELINE
— · · —	PROP ROW
- - -	TEMPORARY CONSTRUCTION EASEMENT LIMITS
- · -	EXIST ROW
XXXXXXXX	CURVE NUMBER
←	PROP TRAFFIC FLOW
⇦	EXIST TRAFFIC FLOW
🚦	PROP SIGNALIZED INTERSECTION
- - - -	MBGF



Texas Department of Transportation
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DALLAS DISTRICT

DESIGN SCHEMATIC

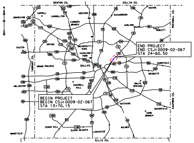
MOHAMED K. BUR, PE DISTRICT ENGINEER

SH 78 AT GASTON AVENUE

CSJ LIMITS 0009-02-067: AT GASTON AVE.		
PROJECT LENGTH:		0.207 MILES
AVERAGE DAILY TRAFFIC:		(SEE TRAFFIC DIAGRAM)
ROADWAY	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
SH 78 (E. GRAND AVE.)	30 MPH	URBAN PRINCIPAL ARTERIAL
SH 78 (GARLAND RD.)	30 MPH	URBAN PRINCIPAL ARTERIAL
GASTON AVE.	30 MPH	URBAN MINOR ARTERIAL
LA VISTA DR.	30 MPH	URBAN MAJOR COLLECTOR
WINSTED DR.	30 MPH	URBAN MINOR COLLECTOR
CROSS STREETS	30 MPH	URBAN LOCAL STREET

BASIS OF DESIGN: TxDOT ROADWAY DESIGN MANUAL 2014
EQUATIONS: NONE RAILROADS: NONE DESIGN EXCEPTIONS: YES

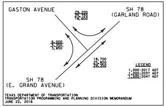
ALL COORDINATES SHOWN HEREON ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM OF 1983, TEXAS NORTH CENTRAL ZONE NO. 4202, NORTH AMERICAN DATUM OF 1983 (NAD83) AS DETERMINED BY GPS OBSERVATIONS USING THE TXDOT VRS NETWORK, GEOID 12A MODEL WITH A GRID-TO-SURFACE CONVERSION FACTOR OF 1.000136506 (DALLAS COUNTY). ELEVATIONS ARE BASED ON NAVD 1988 BY TXDOT GPS VRS RTK OBSERVATIONS.


N
DENTON CO.
COLLIN CO.
ROCKWALL CO.
KAUFMAN CO.
TARRANT CO.
ELLIS CO.
GRAPEVINE
COPPELL
CARROLLTON
ADDISON
RICHARDSON
SACHSE
FARMERS BRANCH
GARLAND
ROWLETT
EULESS
IRVING
UNIVERSITY PARK
HIGHLAND PARK
DALLAS
GRAND PRAIRIE
SUNNYVALE
MESQUITE
ARLINGTON
COCKRELL HILL
BALCH SPRINGS
HUTCHINS
SEAGOVILLE
SAND BRANCH
CEDAR HILL
GLENN HEIGHTS
LANCASTER
WILMER
MANSFIELD
END PROJECT
END CSJ: 0009-02-067
STA 24+60.50
BEGIN PROJECT
BEGIN CSJ: 0009-02-067
STA 13+70.15

LOCATION MAP: NTS
DALLAS COUNTY

SUBMITTAL: NOVEMBER 2018

PRELIMINARY
FOR INTERIM REVIEW ONLY.
NOT FOR PERMITTING, BIDDING,
OR CONSTRUCTION.
Prepared by or under the
Direct Supervision of
CAREN D. CHAMBERS P.E. 99772
11/12/2018


GASTON AVENUE
SH 78
(GARLAND ROAD)
29,200
25,750
18,600
6,000
5,350
3,850
18,700
25,850
29,350
SH 78
(E. GRAND AVENUE)
LEGEND
1,000-2017 ADT
1,000-2037 ADT
1,000-2047 ADT

TEXAS DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROGRAMMING AND PLANNING DIVISION MEMORANDUM
JUNE 22, 2016

SCHEMATIC PLAN & PROFILE

SH 78 AT GASTON AVE

ROLL 1 OF 1 ROLLS

Michael Baker
INTERNATIONAL

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Phone: (469)801-8500
MBAKERINTL.COM
TBPE Registration No. F-2677

...\78LSPP+SCHEMATIC+02-01.dgn