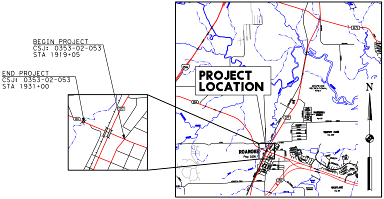
STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT
WILLIAM L. HALE, P.E. DISTRICT ENGINEER

DESIGN SCHEMATIC

BS 114-K
DENTON COUNTY

CSJ: 0353-02-053, ETC.
LIMITS:
FROM: AT UP RAILROAD UNDERPASS IN ROANOKE
TO: DOT NO. 795 342V
LENGTH: 0.001 MILES
DESIGN SPEED: 40 MPH
TYPE OF WORK: REPLACE RAILROAD UNDERPASS
AND IMPROVE BS 114-K DRAINAGE


BEGIN PROJECT
CSJ: 0353-02-053
STA 1919+05
END PROJECT
CSJ: 0353-02-053
STA 1931+00
PROJECT LOCATION
ROANOKE
N
114
377
170

VICINITY MAP

AVERAGE DAILY TRAFFIC:	YEAR	TRAFFIC
BUS 114	2013	12,734
	2033	24,196
US 377	2016	28,400
	2036	50,100

SOURCE: NCTCOG

SCHEMATIC PREPARED BY:

MICHAEL F. BROWN
PROJECT MANAGER

80160 — P.E. NUMBER
6/12/2013 — DATE

0 20 100
SCALE: 1" = 50'
HORIZ.

0 2 10
SCALE: 1" = 5'
VERT.

FUNCTIONAL CLASSIFICATION: URBAN COLLECTOR STREET
JUNE 2013

Texas Department of Transportation
TranSystems REGISTRATION F-3557
LTRA REGISTRATION F-782

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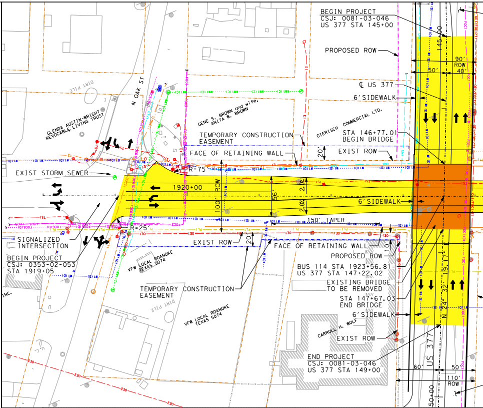
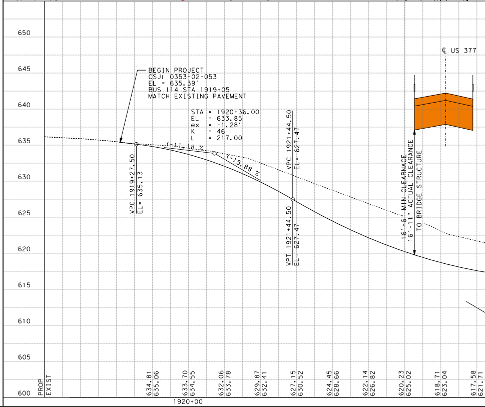
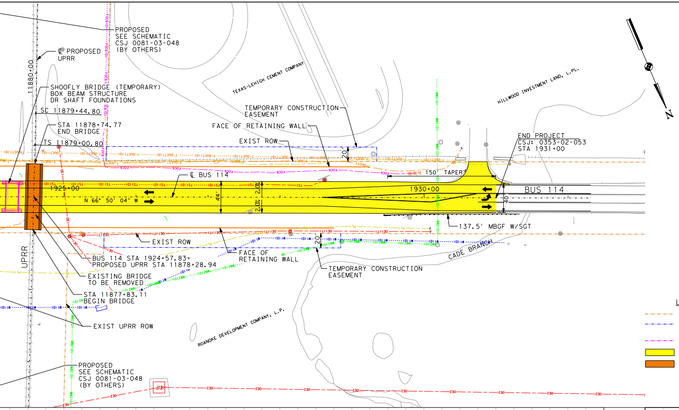
ROLL 1 OF 1

P:\projectsv8\civil\BUS114*Roanoke\cadd\Schematic\BUS114Schematic.dgn


BEGIN PROJECT
CSJ: 0081-03-046
US 377 STA 145+00
PROPOSED ROW
℄ US 377
6' SIDEWALK
90' ROW
50'
40'
N OAK ST
GLENDA AUSTIN-WRIGHT REVOCABLE LIVING TRUST
GENE S. BROWN and wife, ANITA W. BROWN
GIERISCH COMMERCIAL LTD.
TEMPORARY CONSTRUCTION EASEMENT
STA 146+77.01
BEGIN BRIDGE
FACE OF RETAINING WALL
EXIST ROW
EXIST STORM SEWER
R=75
1920+00
ROW
100'
56'
2.0%
6' SIDEWALK
150' TAPER
R=25
SIGNALIZED INTERSECTION
BEGIN PROJECT
CSJ: 0353-02-053
STA 1919+05
EXIST ROW
FACE OF RETAINING WALL
PROPOSED ROW
VFW LOCAL ROANOKE TEXAS 5074
BUS 114 STA 1923+56.81=
US 377 STA 147+22.02
EXISTING BRIDGE TO BE REMOVED
TEMPORARY CONSTRUCTION EASEMENT
STA 147+67.03
END BRIDGE
6' SIDEWALK
CARROLL H. WOLF
EXIST ROW
END PROJECT
CSJ: 0081-03-046
US 377 STA 149+00
DIRT PILE
US 377
N 24° 32' 19.17" E
60'
50'
110' ROW
INC.


650
645
640
635
630
625
620
615
610
605
600
℄ US 377
BEGIN PROJECT
CSJ: 0353-02-053
EL = 635.39'
BUS 114 STA 1919+05
MATCH EXISTING PAVEMENT
STA = 1920+36.00
EL = 633.85
ex = -1.28'
K = 46
L = 217.00
(-)1.18 %
(-)5.88 %
VPC 1919+27.50
EL= 635.13
VPC 1921+44.50
EL= 627.47
VPT 1921+44.50
EL= 627.47
16'-6" MIN. CLEARANCE
16'-11" ACTUAL CLEARANCE
TO BRIDGE STRUCTURE
PROP
EXIST
634.81
635.06
633.70
634.55
632.06
633.78
629.87
632.41
627.15
630.52
624.45
628.66
622.14
626.82
620.23
625.02
618.71
623.04
617.58
621.71
1920+00


PROPOSED
SEE SCHEMATIC
CSJ 0081-03-048
(BY OTHERS)
℄ PROPOSED
UPRR
11880+00
SHOOFLY BRIDGE (TEMPORARY)
BOX BEAM STRUCTURE
DR SHAFT FOUNDATIONS
SC 11879+44.80
STA 11878+74.77
END BRIDGE
TS 11879+00.80
TEXAS-LEHIGH CEMENT COMPANY
TEMPORARY CONSTRUCTION
EASEMENT
FACE OF RETAINING WALL
EXIST ROW
HILLWOOD INVESTMENT LAND, L.P.
END PROJECT
CSJ: 0353-02-053
STA 1931+00
150' TAPER
℄ BUS 114
1925+00
1930+00
BUS 114
N 66° 50' 04" W
44'
2.0%
2.0%
20'
40'
137.5' MBGF W/SGT
EXIST ROW
BUS 114 STA 1924+57.83=
PROPOSED UPRR STA 11878+28.94
FACE OF
RETAINING WALL
TEMPORARY CONSTRUCTION
EASEMENT
CADE BRANCH
UPRR
EXISTING BRIDGE
TO BE REMOVED
STA 11877+83.11
BEGIN BRIDGE
EXIST UPRR ROW
ROANOKE DEVELOPMENT COMPANY, L.P.
PROPOSED
SEE SCHEMATIC
CSJ 0081-03-048
(BY OTHERS)
N

0 20 100
SCALE: 1"= 50'
HORIZ.

0 2 10
SCALE: 1"= 5'
VERT.

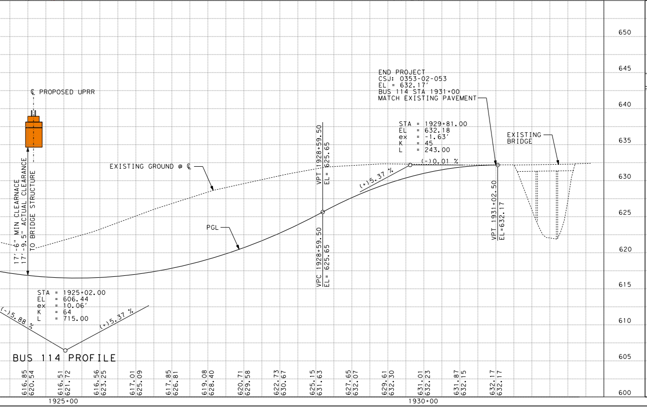
UTILITY LEGEND

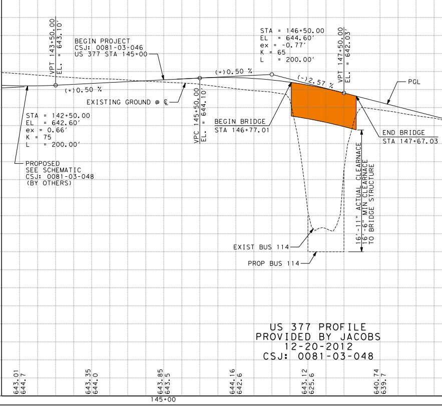
ELECTRIC	E1	TRICOUNTY
TRAFFIC SIGNAL	TS1	TxDOT
TRAFFIC SIGNAL	TS1 (D)	TxDOT
OVERHEAD ELECTRIC	OE1	TRICOUNTY
OVERHEAD ELECTRIC	OE2	ONCOR
OVERHEAD ELECTRIC/ TELEPHONE	OE1/T1	TRICOUNTY/ATT
OVERHEAD ELECTRIC/ FIBER OPTIC/TELEPHONE	OE1/FOC1/T1	TRICOUNTY/ONE SOURCE/ATT
GAS	G1	ATMOS
PIPELINE	PL1	Nu STAR
TELEPHONE	T1	ATT
TELEPHONE	T2	DENTON COUNTY
T-DUCT	T-DUCT1	ATT
T-DUCT	T-DUCT1 (D)	ATT
T-DUCT	T-DUCT2	VERIZON
FIBER OPTIC	FOC1	LEVEL 3
FIBER OPTIC	FOC2	ONE SOURCE
FIBER OPTIC	FOC3	ATT
FIBER OPTIC	FOC4	MCI
FIBER OPTIC	FOC5	ABOVENET
FIBER OPTIC	FOC6	ATT LONG DISTANCE
FIBER OPTIC	FOC6 (D)	ATT LONG DISTANCE
WATER	W1	CITY OF ROANOKE
WATER	W1 (D)	CITY OF ROANOKE
WASTE WATER	WW1	CITY OF ROANOKE
WASTE WATER	WW1 (C)	CITY OF ROANOKE
WASTE WATER	WW2	TRINITY RIVER AUTHORITY
WASTE WATER	WW2 (D)	TRINITY RIVER AUTHORITY

- E ELECTRICAL POWER BOX
- EH ELECTRICAL HAND HOLE
- POWER POLE
- T TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- TH TELEPHONE HAND HOLE
- T TELEPHONE VAULT
- ⋈ WATER VALVE
- WW WASTE WATER MANHOLE
- ∼ OUT OF SCOPE

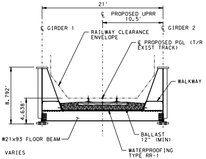
LEGEND

- EXISTING ROW
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED ROW
- 🟨 PROPOSED PAVEMENT
- 🟧 PROPOSED BRIDGE


℄ PROPOSED UPRR
END PROJECT
CSJ: 0353-02-053
EL = 632.17'
BUS 114 STA 1931+00
MATCH EXISTING PAVEMENT
STA = 1929+81.00
EL = 632.18
ex = -1.63'
K = 45
L = 243.00
(-)0.01 %
EXISTING
BRIDGE
EXISTING GROUND @ ℄
(+)5.37 %
VPT 1928+59.50
EL= 625.65
VPT 1931+02.50
EL=632.17
PGL
VPC 1928+59.50
EL= 625.65
17'-6" MIN CLEARANCE
17'-9.5" ACTUAL CLEARANCE
TO BRIDGE STRUCTURE
STA = 1925+02.00
EL = 606.44
ex = 10.06'
K = 64
L = 715.00
(-)5.88 %
(+)5.37 %
BUS 114 PROFILE
616.85 620.54
616.51 621.72
616.56 623.25
617.01 625.09
617.85 626.81
619.08 628.40
620.71 629.58
622.73 630.67
625.15 631.63
627.65 632.07
629.61 632.30
631.01 632.23
631.87 632.15
632.17 632.17
1925+00
1930+00
650
645
640
635
630
625
620
615
610
605
600

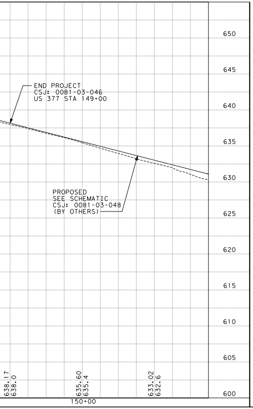

VPT 143+50.00
EL. = 643.10'
BEGIN PROJECT
CSJ: 0081-03-046
US 377 STA 145+00
STA = 146+50.00
EL = 644.60'
ex = -0.77'
K = 65
L = 200.00'
VPT 147+50.00
EL. = 642.03'
(+)0.50 %
(-)2.57 %
PGL
(+)0.50 %
EXISTING GROUND @ ℄
VPC 145+50.00
EL. = 644.10'
STA = 142+50.00
EL = 642.60'
ex = 0.66'
K = 75
L = 200.00'
BEGIN BRIDGE
STA 146+77.01
END BRIDGE
STA 147+67.03
PROPOSED
SEE SCHEMATIC
CSJ: 0081-03-048
(BY OTHERS)
16'-11" ACTUAL CLEARANCE
16'-6" MIN CLEARANCE
TO BRIDGE STRUCTURE
EXIST BUS 114
PROP BUS 114
643.01 644.7
643.35 644.0
643.85 643.5
644.16 642.6
643.12 625.6
640.74 639.7
145+00

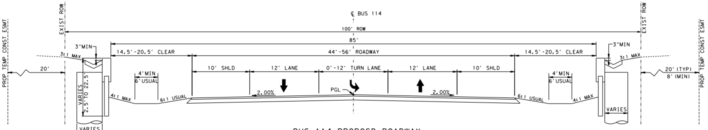
US 377 PROFILE
PROVIDED BY JACOBS
12-20-2012
CSJ: 0081-03-048



21'
℄ PROPOSED UPRR
10.5'
℄ GIRDER 1
℄ GIRDER 2
RAILWAY CLEARANCE ENVELOPE
℄ PROPOSED PGL (T/R EXIST TRACK)
WALKWAY
8.792'
4.638'
W21x93 FLOOR BEAM
BALLAST 12" (MIN)
WATERPROOFING TYPE RR-1
VARIES

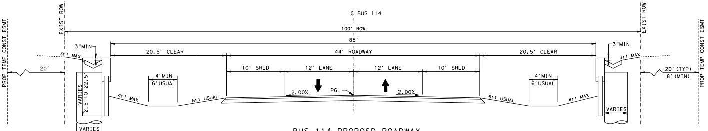
PROPOSED UPRR BRIDGE
PLATE GIRDER SECTION
STA 11877+83.11 TO STA 11878+74.77
N.T.S.





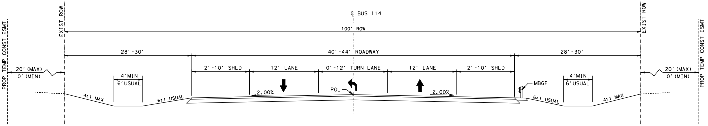
℄ BUS 114
EXIST ROW
PROP TEMP CONST ESMT
100' ROW
85'
14.5'-20.5' CLEAR
44'-56' ROADWAY
14.5'-20.5' CLEAR
3"MIN
3:1 MAX
20'
20' (TYP)
8' (MIN)
10' SHLD
12' LANE
0'-12' TURN LANE
12' LANE
10' SHLD
4'MIN
6'USUAL
2.00%
PGL
4:1 MAX
6:1 USUAL
VARIES
2.5' TO 22.5'

BUS 114 PROPOSD ROADWAY
CURRENT BUILD - WITH TURN LANE
STA 1919+05 TO STA 1922+67
N.T.S.
CSJ: 0353-02-053



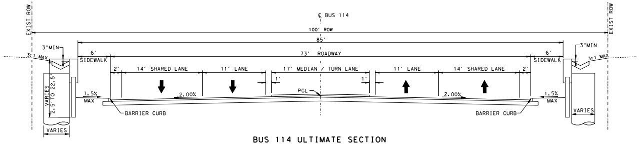
℄ BUS 114
EXIST ROW
PROP TEMP CONST ESMT
100' ROW
85'
20.5' CLEAR
44' ROADWAY
20.5' CLEAR
3"MIN
3:1 MAX
20'
20' (TYP)
8' (MIN)
10' SHLD
12' LANE
12' LANE
10' SHLD
4'MIN
6'USUAL
2.00%
PGL
4:1 MAX
6:1 USUAL
VARIES
2.5' TO 22.5'

BUS 114 PROPOSD ROADWAY
CURRENT BUILD - NO TURN LANE
STA 1922+67 TO STA 1928+60
N.T.S.
CSJ: 0353-02-053



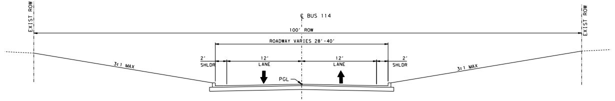
℄ BUS 114
EXIST ROW
PROP TEMP CONST ESMT
100' ROW
28'-30'
40'-44' ROADWAY
28'-30'
20' (MAX)
0' (MIN)
2'-10' SHLD
12' LANE
0'-12' TURN LANE
12' LANE
2'-10' SHLD
4'MIN
6'USUAL
2.00%
PGL
MBGF
4:1 MAX
6:1 USUAL

BUS 114 PROPOSD ROADWAY
CURRENT BUILD - WITH TURN LANE & SHOULDER TAPER
STA 1928+60 TO STA 1931+00
N.T.S.
CSJ: 0353-02-053

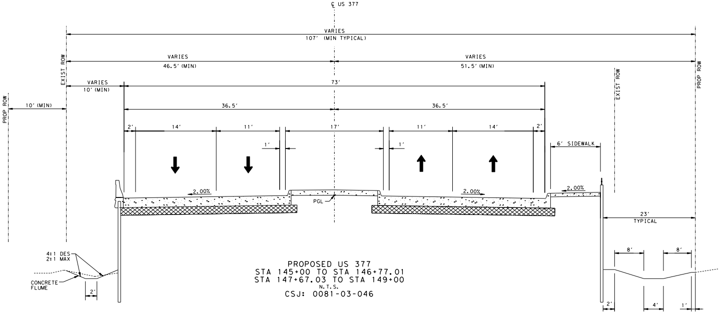


℄ BUS 114
EXIST ROW
100' ROW
85'
6' SIDEWALK
73' ROADWAY
6' SIDEWALK
3"MIN
3:1 MAX
2'
14' SHARED LANE
11' LANE
17' MEDIAN / TURN LANE
1'
11' LANE
14' SHARED LANE
2'
1.5% MAX
2.00%
PGL
BARRIER CURB
VARIES
2.5' TO 22.5'

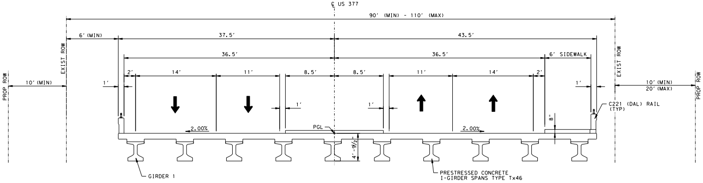
BUS 114 ULTIMATE SECTION
STA 1919+05 TO STA 1931+00
N.T.S.


℄ BUS 114
EXIST ROW
EXIST ROW
100' ROW
ROADWAY VARIES 28'-40'
3:1 MAX
3:1 MAX
2' SHLDR
12' LANE
12' LANE
2' SHLDR
PGL

SH 114 BUS EXISTING ROADWAY
STA 1919+05 TO STA 1931+00
N.T.S.
CSJ: 0353-02-053


℄ US 377
VARIES
107' (MIN TYPICAL)
VARIES
46.5' (MIN)
VARIES
51.5' (MIN)
EXIST ROW
PROP ROW
EXIST ROW
PROP ROW
10' (MIN)
VARIES
10' (MIN)
73'
36.5'
36.5'
2'
14'
11'
17'
11'
14'
2'
1'
1'
6' SIDEWALK
2.00%
PGL
2.00%
2.00%
23' TYPICAL
8'
8'
4:1 DES
2:1 MAX
CONCRETE FLUME
2'
2'
4'
1'

PROPOSED US 377
STA 145+00 TO STA 146+77.01
STA 147+67.03 TO STA 149+00
N.T.S.
CSJ: 0081-03-046


℄ US 377
90' (MIN) - 110' (MAX)
6' (MIN)
37.5'
43.5'
EXIST ROW
PROP ROW
EXIST ROW
PROP ROW
10' (MIN)
36.5'
36.5'
6' SIDEWALK
10' (MIN)
20' (MAX)
2'
14'
11'
8.5'
8.5'
11'
14'
2'
1'
1'
1'
1'
C221 (DAL) RAIL (TYP)
8"
2.00%
PGL
2.00%
4'-9 1/2"
GIRDER 1
PRESTRESSED CONCRETE I-GIRDER SPANS TYPE Tx46

PROPOSED US 377 BRIDGE
STA 146+77.01 TO STA 147+67.03
N.T.S.
CSJ: 0081-03-046

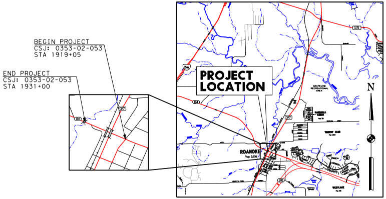
STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT
WILLIAM L. HALE, P.E. DISTRICT ENGINEER
DESIGN SCHEMATIC

BS 114-K

DENTON COUNTY

CSJ: 0353-02-053, ETC.
LIMITS:
FROM: AT UP RAILROAD UNDERPASS IN ROANOKE
TO: DOT NO. 795 342V
LENGTH: 0.001 MILES
DESIGN SPEED: 40 MPH
TYPE OF WORK: REPLACE RAILROAD UNDERPASS
AND IMPROVE BS 114-K DRAINAGE


BEGIN PROJECT
CSJ: 0353-02-053
STA 1919+05
END PROJECT
CSJ: 0353-02-053
STA 1931+00
PROJECT LOCATION
ROANOKE
N

VICINITY MAP

AVERAGE DAILY TRAFFIC:	YEAR	TRAFFIC
BUS 114	2013	12,734
	2033	24,196
US 377	2016	28,400
	2036	50,100

SOURCE: NCTCOG

SCHEMATIC PREPARED BY:
MICHAEL F. BROWN
PROJECT MANAGER
80160
P.E. NUMBER
6/12/2013
DATE

0 20 100
SCALE: 1"= 50'
HORIZ.
0 2 10
SCALE: 1"= 5'
VERT.

FUNCTIONAL CLASSIFICATION: URBAN COLLECTOR STREET
JUNE 2013

Texas Department of Transportation

TranSystems
REGISTRATION F-3557

LTRA
REGISTRATION F-782

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