® © 2011

Texas Department of Transportation

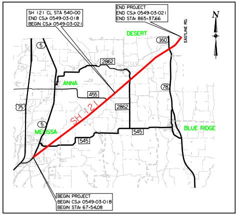
DALLAS DISTRICT
WILLIAM HALE, P.E. DISTRICT ENGINEER
SH 121
COLLIN COUNTY
DESIGN SCHEMATIC
SEPTEMBER 2011

ROLL 7 of 11

FROM: SH 5 IN MELISSA TO: CR 635 (EAST LINE ROAD)
BRIDGE REPLACEMENT AND HIGHWAY RECONSTRUCTION
PROJECT LENGTH: 15.11 MILES (79784')
BRIDGE: 0.30 MILES (1560')
ROADWAY: 14.81 MILES (78224')

CSJ: 0549-03-018 (SH 5 to FM 455)
CSJ: 0549-03-021 (FM 455 to CR 635/FANNIN COUNTY LINE)

HORZ 0 100 200 300
VERT 0 10 20 30
GRAPHIC SCALE
(IN FEET)


SH 121 CL STA 540+00
END CSJ: 0549-03-018
BEGIN CSJ: 0549-03-021
END PROJECT
END CSJ: 0549-03-021
END STA: 865+37.66
N
EASTLINE RD.
DESERT
160
5
2862
ANNA
78
455
75
2862
SH 121
5
MELISSA
BLUE RIDGE
545
545
BEGIN PROJECT
BEGIN CSJ: 0549-03-018
BEGIN STA: 67+54.08

LOCATION MAP

INDEX OF ROLLS

ROLL	DESCRIPTION
1	SH 121 STA 67+54.08 TO STA. 187+00
2	SH 121 STA 187+00 TO STA. 327+00
3	SH 121 STA 327+00 TO STA. 467+00
4	SH 121 STA 467+00 TO STA. 607+00
5	SH 121 STA 607+00 TO STA. 747+00
6	SH 121 STA 747+00 TO CR 635 (FANNIN COUNTY LINE)
7	SH 121 STA 747+00 TO FANNIN COUNTY LINE (TRANSITION)
8	SH 5 AND FANNIN ROAD
9	FM 455 AND CONNECTING RAMPS
10	FM 2862 AND CONNECTING RAMPS
11	SH 160 AND CONNECTING RAMPS

LEGEND

- - - —	EXISTING R.O.W. (ACCESS BY PERMIT ONLY)
—	PROPERTY LINES
▬ ▪ ▪ ▬	PROPOSED R.O.W. (ACCESS BY PERMIT ONLY IN ACCORDANCE WITH TXDOT ACCESS CONTROL MANUAL)
-·—·—	SH 121 CL
X X X X	OBLITERATE EXISTING ROADWAY
— —3"w— —	WATER UTILITY
- - - - -	CITY LIMIT
🟩	SH 121 PAVEMENT
🟦	CROSS STREETS
☐	BRIDGE
🟪	DRIVEWAYS
—	RETAINING WALL
▨	DISPLACED STRUCTURE

DESIGN ROADWAY	LIMITS FROM	LIMITS TO	FUNCTIONAL CLASSIFICATION	ADT 2012	ADT 2032	DESIGN SPEED
SH 121 (SUBURBAN)	SH 5 STA 67+54.08	Outer Loop + STA 368+10.00	ARTERIAL	18800	29400	45
SH 121 (RURAL)	Outer Loop + STA 368+10.00	CR 635 STA 865+37.66	ARTERIAL	13500	21000	70
SH 121 RAMPS	Outer Loop + STA 368+10.00	CR 635 STA 865+37.66	RAMP	NA	NA	35
FM 2933	AT SH 121		COLLECTOR	1000	1600	40
455 N	AT SH 121		ARTERIAL	1550	2250	40
455 S	AT SH 121		COLLECTOR	500	700	40
E. HOUSTON ST (FM 2862)	AT SH 121		COLLECTOR	1700	2700	50
SH 160	AT SH 121		ARTERIAL	4100	6600	50
N. McDonald Street (SH 5 SOUTH)	AT SH 121		ARTERIAL	7300	11,300	40
MC KINNEY ST (SH 5 NORTH)	AT SH 121		ARTERIAL	6400	9900	40
DENTON ST (FM 545)	AT SH 121		COLLECTOR	4200	6500	30
COUNTY ROADS						
CR 418	AT SH 121		LOCAL	600	900	30
LANDFILL ENTRANCE	AT SH 121		LOCAL	NA	NA	30
416	AT SH 121		LOCAL	NA	NA	30
419	AT SH 121		LOCAL	300	600	20 •
420	AT SH 121		LOCAL	NA	NA	20 •
475	AT SH 121		LOCAL	250	450	30
507(509)	AT SH 121		LOCAL	NA	NA	20 •
424 / 513	AT SH 121		LOCAL	NA	NA	30
526 / 527	AT SH 121		LOCAL	NA	NA	20 •
528 / 581	AT SH 121		LOCAL	NA	NA	20 •
582	AT SH 121		LOCAL	NA	NA	20 •
936	AT SH 121		LOCAL	NA	NA	20 •
1002	AT SH 121		LOCAL	NA	NA	20 •
COUNTY LINE RD	AT SH 121		LOCAL	250	250	20 •
EASTLINE RD	AT SH 121		LOCAL	200	350	30
CITY STREETS						
FANNIN RD	AT SH 121		COLLECTOR	NA	NA	30
BARTLETT RD	AT SH 121		LOCAL	NA	NA	30
CREEKSIDE RD	AT SH 121		LOCAL	NA	NA	30
BERRY RD	AT SH 121		LOCAL	2600	4000	30
EASTWOOD RD	AT SH 121		LOCAL	NA	NA	30
LILLIAN DR	AT SH 121		LOCAL	NA	NA	30
NUGENT ST	AT SH 121		LOCAL	NA	NA	30
LIBERTY WAY	AT SH 121		LOCAL	900	1400	30
REDWOOD BLVD	AT SH 121		LOCAL	NA	NA	30

• = UNPAVED COUNTY ROAD
+ = FUTURE OUTER LOOP, BY OTHERS

NOTES:

1. MEDIAN OPENINGS ARE PRELIMINARY AND SUBJECT TO CHANGE. FINAL MEDIAN OPENING LOCATIONS TO BE DETERMINED DURING PS&E AND IN COORDINATION WITH THE CITIES OF MELISSA AND ANNA.

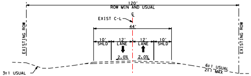
2. SOURCE OF TRAFFIC DATA:
TEXAS DEPARTMENT OF TRANSPORTATION
TRANSPORTATION, PROGRAMING AND PLANNING DIVISION
MARCH 27, 2007

3. ALL URBAN SECTIONS WILL HAVE CONCRETE CURB AND GUTTER WITH BARRIER CURBS.

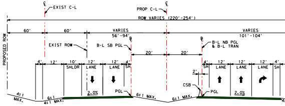
These documents are not intended for Construction, Bidding or Permit Purposes. They were prepared by, or under the supervision of:

NANCY D. MITCHELL, P.E. 79762 09/22/11
PROJECT MANAGER PE# DATE

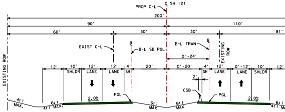
Lockwood, Andrews & Newnam, Inc.
T.B.P.E. Firm # 2614


120'
ROW MIN AND USUAL
EXISTING ROW
EXIST C-L
44'
10' SHLD
12' LANE
12' LANE
10' SHLD
2.0%
2.0%
3:1 USUAL
2:1 MAX
6:1 USUAL
2:1 MAX
EXISTING ROW

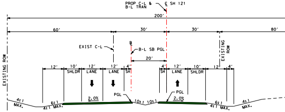
EXISTING TYPICAL SECTION (ANNA)
NTS CSJ 0549-03-021
STA. 818+00 TO STA. 865+37.66


EXIST C-L
PROP C-L
ROW VARIES (220'-254')
60'
60'
VARIES 56'-94'
VARIES 101'-104'
PROPOSED ROW
EXIST ROW
B-L SB PGL
B-L NB PGL & B-L TRAN
20'
20'
4'
12'
10' SHLDR
12' LANE
12' LANE
4' SH
4' SH
12' LANE
12' LANE
12' LANE
4' SH
2'
CSB
PGL
PGL
2.0%
2.0%
4:1 MAX.
6:1
4:1 MAX.
6:1 MAX.
6:1 MAX.

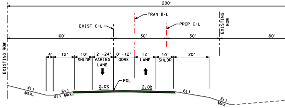
PROPOSED SH 121 TYPICAL SECTION
NTS CSJ 0549-03-021
STA. 818+00 TO 823+00


PROP C-L
SH 121
200'
90'
110'
60'
30'
30'
81'
EXISTING ROW
EXIST C-L
B-L SB PGL
B-L TRAN
0'-24'
EXISTING ROW
12'
10' SHLDR
12' LANE
12' LANE
4' SH
20'
0'-20'
4' SH
12' LANE
0'-12' LANE
10' SHLDR
12'
2'
CSB
PGL
PGL
2.0%
2.0%
4:1 MAX.
6:1
4:1 MAX.
6:1 MAX
6:1 MAX
6:1
4:1 MAX

PROPOSED SH 121 TYPICAL SECTION
NTS CSJ 0549-03-021
STA. 823+00 TO 834+42.70

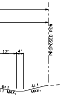

PROP C-L & B-L TRAN
SH 121
200'
60'
30'
30'
80'
EXISTING ROW
EXIST C-L
B-L SB PGL
20'
EXISTING ROW
12'
10' SHLDR
12' LANE
12' LANE
4' SH
4' SH
12' LANE
10' SHLDR
12
4'
PGL
PGL
2.0%
2.0%
4:1 MAX.
6:1
4:1 MAX.
10:1
10:1
6:1
4:1 MAX.
4:1 MAX.

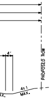
PROPOSED SH 121 TYPICAL SECTION
NTS CSJ 0549-03-021
STA. 834+42.70 TO 836+37.50

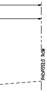

200'
TRAN B-L
EXIST C-L
PROP C-L
EXISTING ROW
EXISTING ROW
60'
30'
30'
80'
4'
12'
10' SHLDR
12'-24' VARIES LANE
0'-12' GORE
12' LANE
10' SHLDR
20'
PGL
2.0%
2.0%
4:1 MAX.
6:1
4:1 MAX.
6:1
3:1 MAX

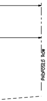
PROPOSED SH 121 TYPICAL SECTION
NTS CSJ 0549-03-021
STA. 836+37.50 TO STA. 843+16.54

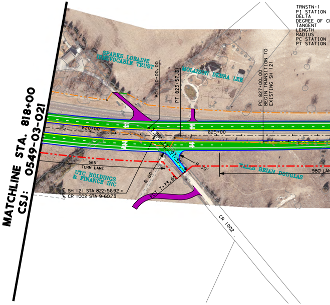
090we15
9/30/2011 8:28:12 AM
L:\118871\148-18336-000\prod\Exhibits\121 07-200.dgn

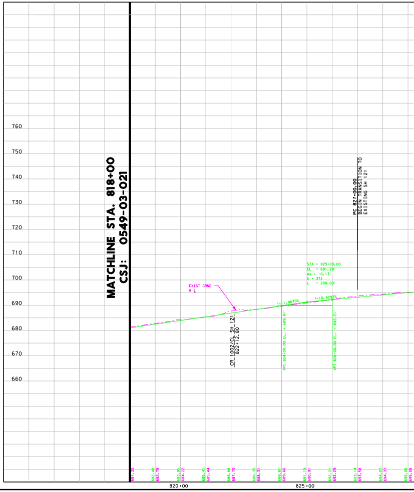

12'
4'
6:1
MAX.
4:1
MAX.
PROPOSED ROW

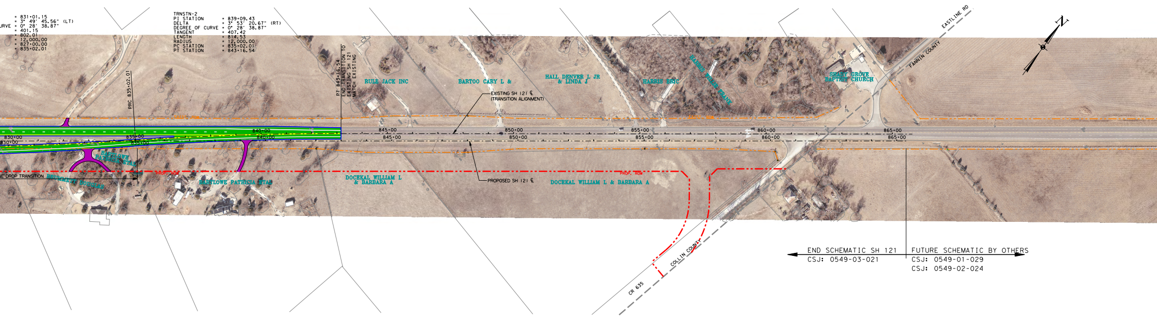

4'
MAX.
4:1
MAX.
PROPOSED ROW


PROPOSED ROW


PROPOSED ROW

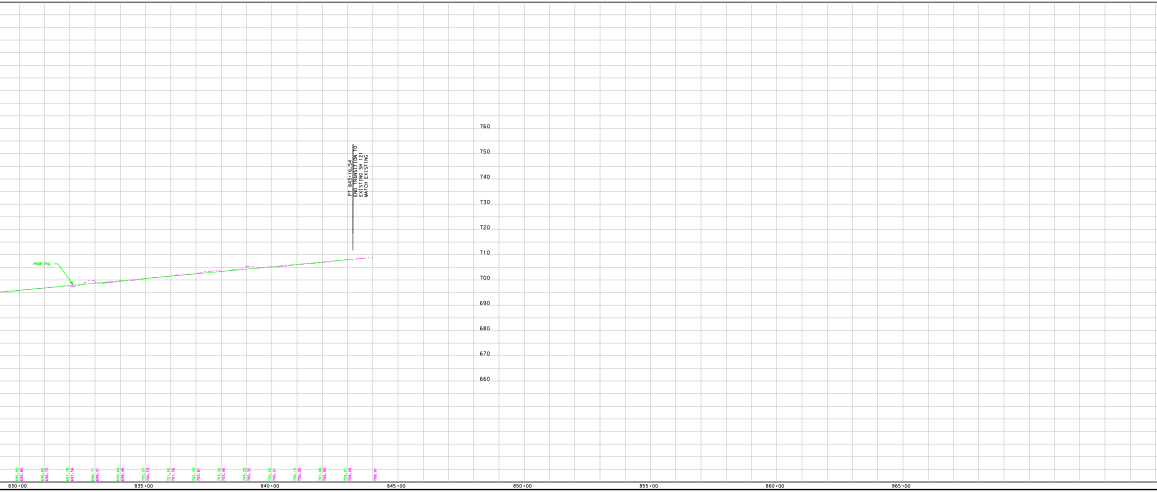

MATCHLINE STA. 818+00
CSJ: 0549-03-021
TRNSTN-1
PI STATION
DELTA
DEGREE OF CU
TANGENT
LENGTH
RADIUS
PC STATION
PT STATION
SPARKS LORAINE IRREVOCABLE TRUST
MOLAISON DEBRA LEE
POT 10+00.00
PT 823+57.31
PC 827+00.00 BEGIN TRANSITION TO EXISTING SH 121
820+00
825+00
565' TURN LANE
UTC HOLDINGS & FINANCE INC
℄ SH 121 STA 822+56.92 =
℄ CR 1002 STA 9+60.73
R 60'
POT 7+73.65
R 30'
WALLS BRIAN DOUGLAS
980' LAN
CR 1002

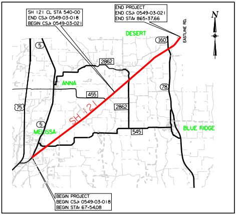



= 831+01.15
= 3° 49' 45.56" (LT)
URVE = 0° 28' 38.87"
= 401.15
= 802.01
= 12,000.00
= 827+00.00
= 835+02.01
TRNSTN-2
PI STATION = 839+09.43
DELTA = 3° 53' 20.67" (RT)
DEGREE OF CURVE = 0° 28' 38.87"
TANGENT = 407.42
LENGTH = 814.53
RADIUS = 12,000.00
PC STATION = 835+02.01
PT STATION = 843+16.54
PRC 835+02.01
PT 843+16.54
END TRANSITION TO
EXISTING SH 121
MATCH EXISTING
RULE JACK INC
BARTOO CARY L &
HALL DENVER L JR
& LINDA J
HARRIS ERIC
HARRIS WILLIE FRANK
SHADY GROVE
BAPTIST CHURCH
EASTLINE RD
FANNIN COUNTY
N
EXISTING SH 121 ℄
(TRANSITION ALIGNMENT)
EXIST. ROW
830+00
835+00
840+00
845+00
850+00
855+00
860+00
865+00
BARTLOWE
PATRICIA ETAL
NE DROP TRANSITION
BRUMMETT DOUGLAS
PROP. ROW
BARTLOWE PATRICIA ETAL
DOCEKAL WILLIAM L
& BARBARA A
PROPOSED SH 121 ℄
DOCEKAL WILLIAM L & BARBARA A
COLLIN COUNTY
CR 635

END SCHEMATIC SH 121
CSJ: 0549-03-021

FUTURE SCHEMATIC BY OTHERS
CSJ: 0549-01-029
CSJ: 0549-02-024




SH 121 CL STA 540+00
END CSJ: 0549-03-018
BEGIN CSJ: 0549-03-021
END PROJECT
END CSJ: 0549-03-021
END STA: 865+37.66
N
EASTLINE RD.
DESERT
160
5
2862
ANNA
455
78
75
2862
SH 121
5
MELISSA
545
BLUE RIDGE
BEGIN PROJECT
BEGIN CSJ: 0549-03-018
BEGIN STA: 67+54.08

LOCATION MAP

® © 2011
Texas Department of Transportation

DALLAS DISTRICT
WILLIAM HALE, P.E. DISTRICT ENGINEER
SH 121
COLLIN COUNTY
DESIGN SCHEMATIC
SEPTEMBER 2011

ROLL 7 of 11

FROM: SH 5 IN MELISSA TO: CR 635 (EAST LINE ROAD)
BRIDGE REPLACEMENT AND HIGHWAY RECONSTRUCTION
PROJECT LENGTH: 15.11 MILES (79784')
BRIDGE: 0.30 MILES (1560')
ROADWAY: 14.81 MILES (78224')

CSJ: 0549-03-018 (SH 5 to FM 455)
CSJ: 0549-03-021 (FM 455 to CR 635/FANNIN COUNTY LINE)

HORZ 0 100 200 300
VERT 0 10 20 30
GRAPHIC SCALE
(IN FEET)

LEGEND

— - — -	EXISTING R.O.W. (ACCESS BY PERMIT ONLY)
———	PROPERTY LINES
▬ ▪ ▪ ▬	PROPOSED R.O.W. (ACCESS BY PERMIT ONLY IN ACCORDANCE WITH TXDOT ACCESS CONTROL MANUAL)
— · — · —	SH 121 CL
X X X X	OBLITERATE EXISTING ROADWAY
– –3"W– –	WATER UTILITY
– – – – – –	CITY LIMIT
🟩	SH 121 PAVEMENT
🟦	CROSS STREETS
☐	BRIDGE
🟪	DRIVEWAYS
———	RETAINING WALL
▨	DISPLACED STRUCTURE

INDEX OF ROLLS

ROLL	DESCRIPTION
1	SH 121 STA 67+54.08 TO STA. 187+00
2	SH 121 STA 187+00 TO STA. 327+00
3	SH 121 STA 327+00 TO STA. 467+00
4	SH 121 STA 467+00 TO STA. 607+00
5	SH 121 STA 607+00 TO STA. 747+00
6	SH 121 STA 747+00 TO CR 635 (FANNIN COUNTY LINE)
7	SH 121 STA 747+00 TO FANNIN COUNTY LINE (TRANSITION)
8	SH 5 AND FANNIN ROAD
9	FM 455 AND CONNECTING RAMPS
10	FM 2862 AND CONNECTING RAMPS
11	SH 160 AND CONNECTING RAMPS

DESIGN ROADWAY	LIMITS		FUNCTIONAL CLASSIFICATION	ADT		DESIGN SPEED
	FROM	TO		2012	2032	
SH 121 (SUBURBAN)	SH 5 STA 67+54.08	Outer Loop + STA 368+10.00	ARTERIAL	18800	29400	45
SH 121 (RURAL)	Outer Loop + STA 368+10.00	CR 635 STA 865+37.66	ARTERIAL	13500	21000	70
SH 121 RAMPS	Outer Loop + STA 368+10.00	CR 635 STA 865+37.66	RAMP	NA	NA	35
FM 2933	AT SH 121		COLLECTOR	1000	1600	40
455 N	AT SH 121		ARTERIAL	1550	2250	40
455 S	AT SH 121		COLLECTOR	500	700	40
E. HOUSTON ST (FM 2862)	AT SH 121		COLLECTOR	1700	2700	50
SH 160	AT SH 121		ARTERIAL	4100	6600	50
N. McDonald Street (SH 5 SOUTH)	AT SH 121		ARTERIAL	7300	11,300	40
MC KINNEY ST (SH 5 NORTH)	AT SH 121		ARTERIAL	6400	9900	40
DENTON ST (FM 545)	AT SH 121		COLLECTOR	4200	6500	30
COUNTY ROADS						
CR 418	AT SH 121		LOCAL	600	900	30
LANDFILL ENTRANCE	AT SH 121		LOCAL	NA	NA	30
416	AT SH 121		LOCAL	NA	NA	30
419	AT SH 121		LOCAL	300	600	20 •
420	AT SH 121		LOCAL	NA	NA	20 •
475	AT SH 121		LOCAL	250	450	30
507(509)	AT SH 121		LOCAL	NA	NA	20 •
424 / 513	AT SH 121		LOCAL	NA	NA	30
526 / 527	AT SH 121		LOCAL	NA	NA	20 •
528 / 581	AT SH 121		LOCAL	NA	NA	20 •
582	AT SH 121		LOCAL	NA	NA	20 •
936	AT SH 121		LOCAL	NA	NA	20 •
1002	AT SH 121		LOCAL	NA	NA	20 •
COUNTY LINE RD	AT SH 121		LOCAL	250	250	20 •
EASTLINE RD	AT SH 121		LOCAL	200	350	30
CITY STREETS						
FANNIN RD	AT SH 121		COLLECTOR	NA	NA	30
BARTLETT RD	AT SH 121		LOCAL	NA	NA	30
CREEKSIDE RD	AT SH 121		LOCAL	NA	NA	30
BERRY RD	AT SH 121		LOCAL	2600	4000	30
EASTWOOD RD	AT SH 121		LOCAL	NA	NA	30
LILLIAN DR	AT SH 121		LOCAL	NA	NA	30
NUGENT ST	AT SH 121		LOCAL	NA	NA	30
LIBERTY WAY	AT SH 121		LOCAL	900	1400	30
REDWOOD BLVD	AT SH 121		LOCAL	NA	NA	30

• = UNPAVED COUNTY ROAD
+ = FUTURE OUTER LOOP, BY OTHERS

NOTES:

1. MEDIAN OPENINGS ARE PRELIMINARY AND SUBJECT TO CHANGE. FINAL MEDIAN OPENING LOCATIONS TO BE DETERMINED DURING PS&E AND IN COORDINATION WITH THE CITIES OF MELISSA AND ANNA.
2. SOURCE OF TRAFFIC DATA: TEXAS DEPARTMENT OF TRANSPORTATION TRANSPORTATION, PROGRAMING AND PLANNING DIVISION MARCH 27, 2007
3. ALL URBAN SECTIONS WILL HAVE CONCRETE CURB AND GUTTER WITH BARRIER CURBS.