TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

COLLIN COUNTY

DESIGN SCHEMATIC

KELLY SELMAN, P.E.
DISTRICT ENGINEER

# SH 5 RECONSTRUCTION PROJECT

CSJ: 0047-04-022

FROM: SH 121N

TO: CR 375

NET LENGTH OF PROJECT: 8.58 MILES

FUNCTIONAL CLASSIFICATION:
URBAN MINOR ARTERIAL

SH 5 DESIGN SPEED = 40 MPH
CR 423, CR 371/CR 376 DESIGN SPEED = 30 MPH
HIGHLAND RD & N CENTRAL ST DESIGN SPEED=30 MPH

TRAFFIC DATA

| TRAFFIC VOLUMES BASED ON OPENING TRAFFIC APPROVED BY DIST/TPP DIVISION DATED JUNE 3, 2013 | 2013 FROM SH 121 TO SH 5 | 2013 FROM SH 5 TO CR 375 |
|---|---|---|
| AVERAGE DAILY TRAFFIC - 2015(ADT) | 9,100/(3,700) | 4,700/(1,775) |
| DIRECTIONAL DISTRIBUTION (%) | 58 - 42 | 58 - 42 |
| PERCENT TRUCKS OF DHV | 10.0 | 10.0 |
| K FACTOR | 10.8 | 10.8 |




INDEX OF ROLLS

ROLL 1 - PLAN AND PROFILE - BEGIN PROJECT TO STA 141+00
ROLL 2 - PLAN AND PROFILE - STA 141+00 TO STA 154+00
ROLL 3 - PLAN AND PROFILE - STA 154+00 TO STA 321+00
ROLL 4 - PLAN AND PROFILE - STA 321+00 TO STA 389+00
ROLL 5 - PLAN AND PROFILE - STA 389+00 TO STA 521+00
ROLL 6 - PLAN AND PROFILE - STA 521+00 TO STA 563+00
ROLL 7 - PLAN AND PROFILE - STA 563+00 TO STA 611+00
ROLL 8 - PLAN AND PROFILE - STA 611+00 TO STA 659+00
ROLL 9 - PLAN AND PROFILE - STA 659+00 TO STA 705+00
ROLL 10 - PLAN AND PROFILE - STA 705+00 TO STA 749+00
ROLL 11 - PLAN AND PROFILE - STA 749+00 TO END OF PROJECT

**APPROVED**
**NOVEMBER 17, 2016**

PREPARED BY:
CIVIL ASSOCIATES, INC.
TBPE REGISTRATION NO. F-000881

NASER ABUSAAD, P.E., AICP
LICENSE NO. 83220

GRANT WU, P.E.
LICENSE NO. 99529

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SH 5 TRAFFIC PROJECTIONS
SH 5 AT SH 121N

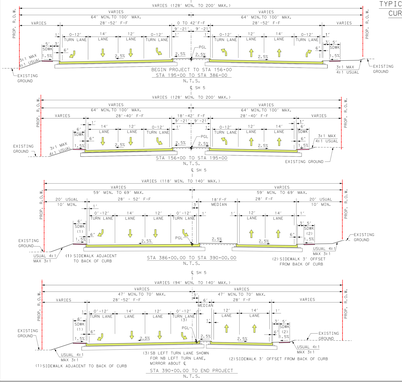


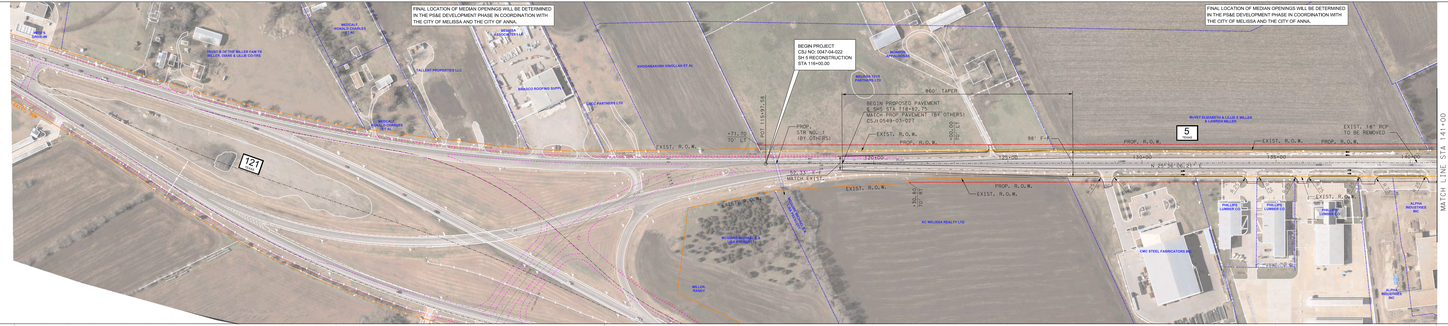

TYPICAL INTERSECTION
CURB RAMP LAYOUT
N.T.S.

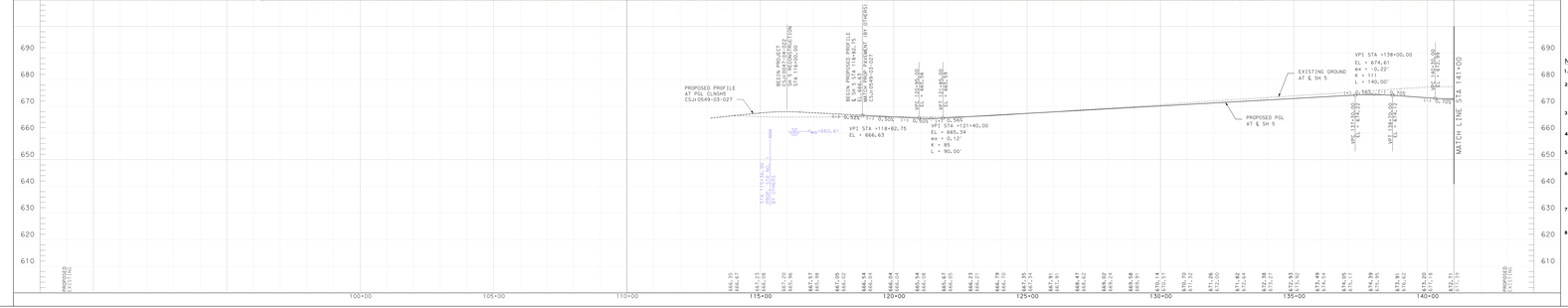
EXISTING TYPICAL SECTION
E SH 5




PROPOSED TYPICAL SECTIONS
E SH 5







LEGEND

- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- PARCEL BOUNDARY (APPROX.)
- CITY LIMITS (APPROX.)
- PERMANENT WATER EASEMENT
- PERMANENT DRAINAGE EASEMENT
- PROPOSED LANE
- EXISTING WATER LINE
- PROPOSED DRAINAGE STRUCTURE
- PROPOSED RETAINING WALL OR SIMILAR
- FUTURE ROADWAY (BY OTHERS)
- 11 DISPLACEMENT
- DRAINAGE FLOW

NOTES:

1. **PROPOSED PROFILE GENERALLY FOLLOWS EXISTING.**
2. **FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING DETAILED DESIGN IN COORDINATION WITH THE CITIES OF ANNA AND MELISSA.**
3. **ALL DIMENSIONS ARE TO FACE OF CURB, UNLESS OTHERWISE NOTED.**
4. **ALL PRIVATE DRIVEWAYS HAVE A MAXIMUM SLOPE OF 10 FEET, UNLESS OTHERWISE NOTED.**
5. **AERIAL PHOTOS AND EXISTING TOPOGRAPHY SHOWN BY TxDOT, FEBRUARY 4, 2014.**
6. **EXISTING RIGHT-OF-WAY SHOWN BASED ON TxDOT SURVEY: SH 121N TO FM 455 ON APRIL 12, 2001 AND FM 455 TO CR 375 ON FEBRUARY 7, 2002.**
7. **PARCEL BOUNDARY LOCATIONS ARE APPROXIMATE AND SUBJECT TO VERIFICATION AND CHANGE.**
8. **ADDITIONAL ACCESS TO PROPOSED FACILITY BY PERMIT ONLY.**

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

COLLIN COUNTY

DESIGN SCHEMATIC

KELLY SELMAN, P.E.
DISTRICT ENGINEER

SH 5 RECONSTRUCTION PROJECT

CSJ: 0047-04-022

FROM: SH 121N

TO: CR 375

NET LENGTH OF PROJECT: 8.58 MILES

FUNCTIONAL CLASSIFICATION:
URBAN MINOR ARTERIAL

SH 5 DESIGN SPEED = 40 MPH
CR 423, CR 371/CR 376 DESIGN SPEED = 30 MPH
HIGHLAND RD & N CENTRAL ST DESIGN SPEED=30 MPH

TRAFFIC DATA

| TRAFFIC VOLUMES BASED ON OPENING TRAFFIC APPROVED BY DIST/TPP DIVISION DATED JUNE 3, 2013 | 2013 FROM SH 121 TO SH 5 | 2013 FROM SH 5 TO CR 375 |
|---|---|---|
| AVERAGE DAILY TRAFFIC - 2015(ADT) | 9,100/(3,700) | 4,700/(1,775) |
| DIRECTIONAL DISTRIBUTION (%) | 58 - 42 | 58 - 42 |
| PERCENT TRUCKS OF DHV | 10.0 | 10.0 |
| K FACTOR | 10.8 | 10.8 |

PROJECT LOCATION
COLLIN COUNTY
DALLAS DISTRICT
BEGIN PROJECT STA 154+00.00 CSJ: 0047-04-022
END PROJECT STA 168+90.00 CSJ: 0047-04-022
SCALE IN MILES

INDEX OF ROLLS

ROLL 1 - PLAN AND PROFILE - BEGIN PROJECT TO STA 141+00
ROLL 2 - PLAN AND PROFILE - STA 141+00 TO STA 154+00
ROLL 3 - PLAN AND PROFILE - STA 154+00 TO STA 321+00
ROLL 4 - PLAN AND PROFILE - STA 321+00 TO STA 389+00
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ROLL 11 - PLAN AND PROFILE - STA 749+00 TO END OF PROJECT

APPROVED
NOVEMBER 17, 2016

PREPARED BY:
CIVIL ASSOCIATES, INC.
TBPE REGISTRATION NO. F-000881

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COUNTY: COLLIN
DATE: JANUARY 2017

DESIGN SCHEMATIC FOR SH 5 RECONSTRUCTION

ROLL 1 OF 11

Texas Department of Transportation

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

# COLLIN COUNTY
## DESIGN SCHEMATIC

KELLY SELMAN, P.E.
DISTRICT ENGINEER

## SH 5 RECONSTRUCTION PROJECT
CSJ: 0047-04-022

**FROM: SH 121N**
**TO: CR 375**

NET LENGTH OF PROJECT: 8.58 MILES

**FUNCTIONAL CLASSIFICATION:**
**URBAN MINOR ARTERIAL**

**SH 5 DESIGN SPEED = 40 MPH**
**CR 423, CR 371/CR 376 DESIGN SPEED = 30 MPH**
**HIGHLAND RD & N CENTRAL ST DESIGN SPEED=30 MPH**

**TRAFFIC DATA**

TRAFFIC VOLUMES BASED ON TRAFFIC FORECASTS APPROVED BY TXDOT TPP DIVISION DATED JUNE 6, 2014

| | SH 5 FROM SL 121 TO BUTLER ST | SH 5 FROM BUTLER ST TO CR 375 |
|---|---|---|
| AVERAGE DAILY TRAFFIC - 2021(OPEN) | 9,100 (3,700) | 4,700 (2,775) |
| DIRECTIONAL DISTRIBUTION (%) | 55 - 45 | 58 - 42 |
| PERCENT TRUCKS OF DHV | 11.5 | 10.1 |
| K FACTOR | 10.8 | 10.8 |

END PROJECT
STA 168+90.20
CSJ: 0047-04-022




INDEX OF ROLLS

ROLL 1 - PLAN AND PROFILE - BEGIN PROJECT TO STA 141+00
ROLL 2 - PLAN AND PROFILE - STA 141+00 TO STA 155+50
ROLL 3 - PLAN AND PROFILE - STA 154+00 TO STA 321+00
ROLL 4 - PLAN AND PROFILE - STA 231+00 TO STA 399+00
ROLL 5 - PLAN AND PROFILE - STA 399+00 TO STA 521+00
ROLL 6 - PLAN AND PROFILE - STA 521+00 TO STA 563+00
ROLL 7 - PLAN AND PROFILE - STA 563+00 TO STA 614+00
ROLL 8 - PLAN AND PROFILE - STA 614+00 TO STA 659+00
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ROLL 11 - PLAN AND PROFILE - STA 751+00 TO END OF PROJECT

**APPROVED**
**NOVEMBER 17, 2016**

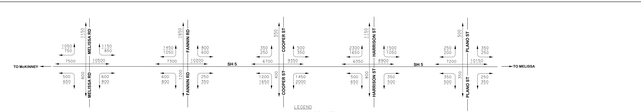
PREPARED BY:
CIVIL ASSOCIATES, INC.
TBPE REGISTRATION NO. F-000981

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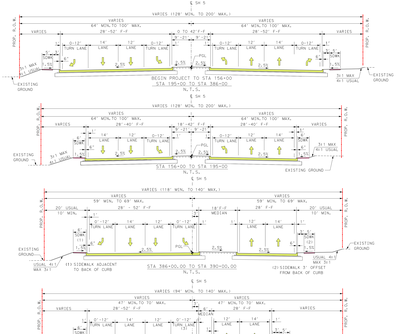



SH 5 TRAFFIC PROJECTIONS
MELISSA RD TO PLANO ST

## EXISTING TYPICAL SECTION

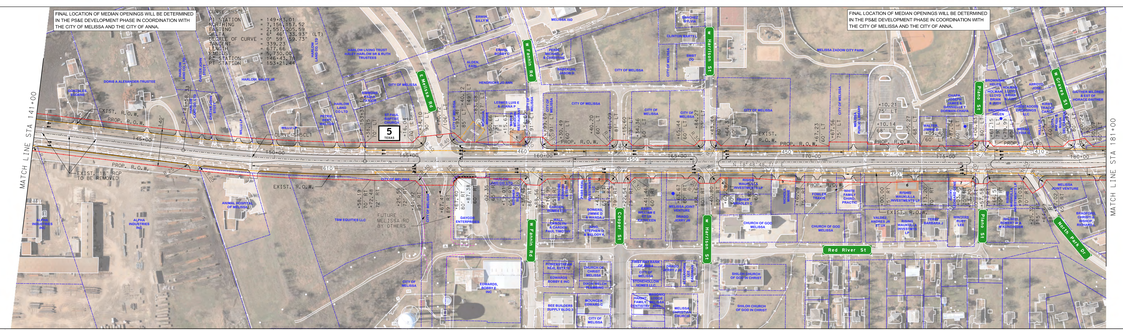


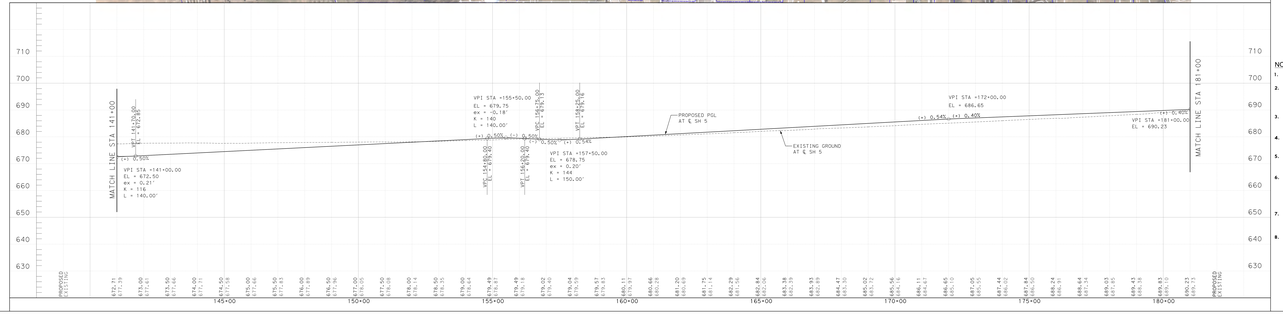

## PROPOSED TYPICAL SECTIONS




## TYPICAL INTERSECTION CURB RAMP LAYOUT
N. T. S.




NOTES:

1. **PROPOSED PROFILE GENERALLY FOLLOWS EXISTING.**
2. **FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING DETAILED DESIGN IN COORDINATION WITH THE CITIES OF ANNA AND MELISSA.**
3. **ALL DIMENSIONS ARE TO BACK OF CURB, UNLESS OTHERWISE NOTED.**
4. **ALL PRIVATE DRIVEWAYS HAVE A MAXIMUM GRADE OF 10 FEET, UNLESS OTHERWISE NOTED.**
5. **AERIAL PHOTOS AND EXISTING TOPOGRAPHY SHOWN BY TxDOT, FEBRUARY 4, 2014.**
6. **EXISTING RIGHT-OF-WAY SHOWN BASED ON TxDOT SURVEY: SH 121N TO FM 455 ON APRIL 12, 2001 AND FM 455 TO CR 375 ON FEBRUARY 7, 2002.**
7. **PARCEL BOUNDARY LOCATIONS ARE APPROXIMATE AND SUBJECT TO VERIFICATION AND CHANGE.**
8. **ADDITIONAL ACCESS TO PROPOSED FACILITY BY PERMIT ONLY.**

SCALE IN FEET
0 250 500

LEGEND

- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- PARCEL BOUNDARY (APPROX.)
- CITY LIMITS (APPROX.)
- PERMANENT WATER EASEMENT
- PERMANENT DRAINAGE EASEMENT
- PROPOSED LANE
- EXISTING WATER LINE
- PROPOSED DRAINAGE STRUCTURE
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- 11 DISPLACEMENT
- DRAINAGE FLOW

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

COLLIN COUNTY
DESIGN SCHEMATIC

KELLY SELMAN, P.E.
DISTRICT ENGINEER

SH 5 RECONSTRUCTION PROJECT
CSJ: 0047-04-022

FROM: SH 121N
TO: CR 375

NET LENGTH OF PROJECT: 8.58 MILES

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URBAN MINOR ARTERIAL

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CR 423, CR 371/CR 376 DESIGN SPEED = 30 MPH
HIGHLAND RD & N CENTRAL ST DESIGN SPEED=30 MPH

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TRAFFIC FORECASTS APPROVED BY TXDOT TPP DIVISION DATED JUNE 6, 2014

| | SH 5 FROM SL 121 TO BUTLER ST | SH 5 FROM BUTLER ST TO CR 375 |
|---|---|---|
| AVERAGE DAILY TRAFFIC - 2021(OPEN) | 9,100 (3,700) | 4,700 (2,775) |
| DIRECTIONAL DISTRIBUTION (%) | 55 - 45 | 58 - 42 |
| PERCENT TRUCKS OF DHV | 11.5 | 10.1 |
| K FACTOR | 10.8 | 10.8 |

END PROJECT
STA 168+90.20
CSJ: 0047-04-022

PROJECT LOCATION
COLLIN COUNTY
DALLAS DISTRICT
BEGIN PROJECT
STA 116+00.00
CSJ: 0047-04-022
MILE

INDEX OF ROLLS

ROLL 1 - PLAN AND PROFILE - BEGIN PROJECT TO STA 141+00
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ROLL 10 - PLAN AND PROFILE - STA 705+00 TO STA 751+00
ROLL 11 - PLAN AND PROFILE - STA 751+00 TO END OF PROJECT

APPROVED
NOVEMBER 17, 2016

PREPARED BY:
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DALLAS DISTRICT

# COLLIN COUNTY
## DESIGN SCHEMATIC

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DISTRICT ENGINEER

## SH 5 RECONSTRUCTION PROJECT
CSJ: 0047-04-022

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TO: CR 375

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URBAN MINOR ARTERIAL

SH 5 DESIGN SPEED = 40 MPH
CR 423, CR 371/CR 376 DESIGN SPEED = 30 MPH
HIGHLAND RD & N CENTRAL ST DESIGN SPEED=30 MPH

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TRAFFIC SURVEYS PERFORMED BY COLLIN COUNTY PW DIVISION DATED JUNE 5, 2014

| | SH 5 FROM SH 121 TO MCREA ST | SH 5 FROM MCREA ST TO CR 375 |
|---|---|---|
| AVERAGE DAILY TRAFFIC - 2021(OPEN) | 4,100(3,700) | 4,700(4,770) |
| DIRECTIONAL DISTRIBUTION (%) | 59 - 42 | 58 - 42 |
| PERCENT TRUCKS OF DHV | 11.5 | 10.1 |
| K FACTOR | 10.8 | 10.4 |

END PROJECT
STA 164+00.00
CSJ: 0047-04-022




INDEX OF ROLLS


ROLL 1 - PLAN AND PROFILE - BEGIN PROJECT TO STA 141+00
ROLL 2 - PLAN AND PROFILE - STA 141+00 TO STA 191+00
ROLL 3 - PLAN AND PROFILE - STA 191+00 TO STA 231+00
ROLL 4 - PLAN AND PROFILE - STA 231+00 TO STA 269+00
ROLL 5 - PLAN AND PROFILE - STA 269+00 TO STA 301+00
ROLL 6 - PLAN AND PROFILE - STA 301+00 TO STA 343+00
ROLL 7 - PLAN AND PROFILE - STA 343+00 TO STA 411+00
ROLL 8 - PLAN AND PROFILE - STA 411+00 TO STA 459+00
ROLL 9 - PLAN AND PROFILE - STA 459+00 TO STA 505+00
ROLL 10 - PLAN AND PROFILE - STA 505+00 TO STA 551+00
ROLL 11 - PLAN AND PROFILE - STA 551+00 TO END OF PROJECT


APPROVED
NOVEMBER 17, 2016

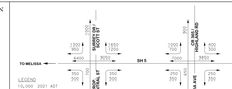
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## SH 5 TRAFFIC PROJECTIONS

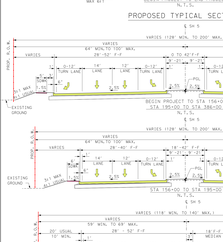



## SURREY DR/SCOTT ST TO CR 365/HIGHLAND RD

### EXISTING TYPICAL SECTION

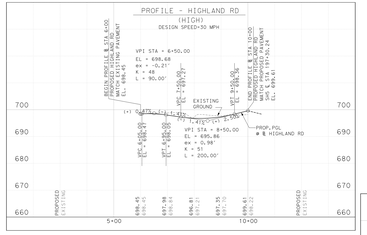


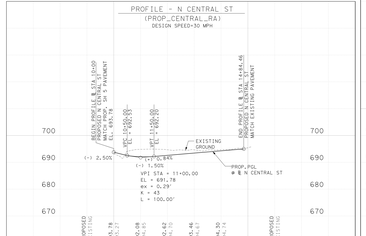

### PROPOSED TYPICAL SECTIONS









TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

# COLLIN COUNTY
## DESIGN SCHEMATIC
KELLY SELMAN, P.E.
DISTRICT ENGINEER

# SH 5 RECONSTRUCTION PROJECT
CSJ: 0047-04-022

**FROM: SH 121N**
**TO: CR 375**

NET LENGTH OF PROJECT: 8.58 MILES

**FUNCTIONAL CLASSIFICATION:**
**URBAN MINOR ARTERIAL**

**SH 5 DESIGN SPEED = 40 MPH**
**CR 423, CR 371/CR 376 DESIGN SPEED = 30 MPH**
**HIGHLAND RD & N CENTRAL ST DESIGN SPEED=30 MPH**

TRAFFIC DATA

| TRAFFIC VOLUMES BASED ON TRAFFIC FORECASTS PREPARED BY DOTD TPM DIVISION DATED JUNE 6, 2014 | SH 5 FROM SLATER ST TO BOYLES ST | SH 5 FROM BOYLES ST TO CR 375 |
|---|---|---|
| AVERAGE DAILY TRAFFIC - 2021(OPEN) | 4,100(3,770) | 4,700(4,776) |
| DIRECTIONAL DISTRIBUTION (%) | 55 - 45 | 58 - 42 |
| PERCENT TRUCKS OF DHV | 11.1 | 10.1 |
| K FACTOR | 10.8 | 10.8 |

END PROJECT
STA 164+90.00
CSJ: 0047-04-022




INDEX OF ROLLS


ROLL 1 - PLAN AND PROFILE - BEGIN PROJECT TO STA 141+00
ROLL 2 - PLAN AND PROFILE - STA 141+00 TO STA 164+90
ROLL 3 - PLAN AND PROFILE - STA 164+00 TO STA 221+00
ROLL 4 - PLAN AND PROFILE - STA 221+00 TO STA 269+00
ROLL 5 - PLAN AND PROFILE - STA 269+00 TO STA 321+00
ROLL 6 - PLAN AND PROFILE - STA 321+00 TO STA 363+00
ROLL 7 - PLAN AND PROFILE - STA 363+00 TO STA 411+00
ROLL 8 - PLAN AND PROFILE - STA 411+00 TO STA 459+00
ROLL 9 - PLAN AND PROFILE - STA 459+00 TO STA 505+00
ROLL 10 - PLAN AND PROFILE - STA 505+00 TO STA 551+00
ROLL 11 - PLAN AND PROFILE - STA 551+00 TO END OF PROJECT


**APPROVED**
**NOVEMBER 17, 2016**

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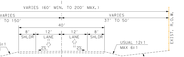
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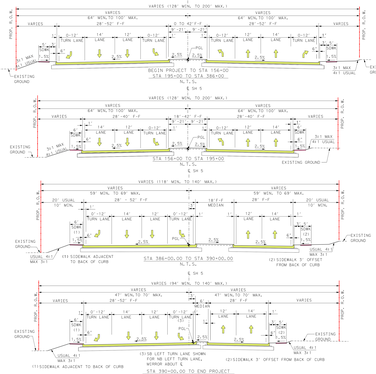


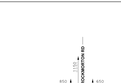
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EXISTING TYPICAL SECTION
E. SH 5




PROPOSED TYPICAL SECTIONS

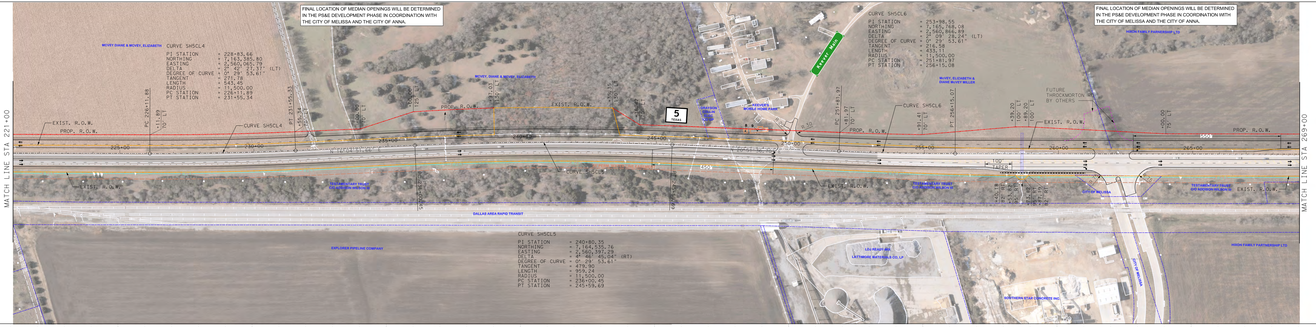



SH 5 TRAFFIC PROJECTIONS
FUTURE ROWAY TO THROCKMORTON RD

LEGEND
10,000 2021 ADT
15,000 2041 ADT
SOURCE:
TEXAS DOT TPM DIVISION JUNE 6, 2014







LEGEND

- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- PARCEL BOUNDARY (APPROX.)
- CITY LIMITS (APPROX.)
- PERMANENT WATER EASEMENT
- PERMANENT DRAINAGE EASEMENT
- PROPOSED LANE
- EXISTING WATER LINE
- PROPOSED DRAINAGE STRUCTURE
- PROPOSED RETAINING WALL OR SIMILAR
- FUTURE ROADWAY (BY OTHERS)
- 11 DISPLACEMENT
- DRAINAGE FLOW

NOTES:

1. PROPOSED PROFILE GENERALLY FOLLOWS EXISTING.
2. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING DETAILED DESIGN IN COORDINATION WITH THE CITIES OF ANNA AND MELISSA.
3. ALL DIMENSIONS ARE TO FACE OF CURB, UNLESS OTHERWISE NOTED.
4. ALL PRIVATE DRIVEWAYS HAVE A MAXIMUM GRADE OF 10 FEET, UNLESS OTHERWISE NOTED.
5. AERIAL PHOTOS AND EXISTING TOPOGRAPHY SHOWN BY TxDOT, FEBRUARY 4, 2014.
6. EXISTING RIGHT-OF-WAY SHOWN BASED ON TxDOT SURVEY: SH 121N TO FM 455 ON APRIL 12, 2001 AND FM 455 TO CR 375 ON FEBRUARY 7, 2002.
7. PARCEL BOUNDARY LOCATIONS ARE APPROXIMATE AND SUBJECT TO VERIFICATION AND CHANGE.
8. ADDITIONAL ACCESS TO PROPOSED FACILITY BY PERMIT ONLY.


TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

COLLIN COUNTY
DESIGN SCHEMATIC
KELLY SELMAN, P.E.
DISTRICT ENGINEER

SH 5 RECONSTRUCTION PROJECT
CSJ: 0047-04-022

FROM: SH 121N
TO: CR 375

NET LENGTH OF PROJECT: 8.58 MILES

FUNCTIONAL CLASSIFICATION:
URBAN MINOR ARTERIAL

SH 5 DESIGN SPEED = 40 MPH
CR 423, CR 371/CR 376 DESIGN SPEED = 30 MPH
HIGHLAND RD & N CENTRAL ST DESIGN SPEED=30 MPH

TRAFFIC DATA

| TRAFFIC VOLUMES BASED ON TRAFFIC FORECASTS PREPARED BY DOTD TPM DIVISION DATED JUNE 6, 2014 | SH 5 FROM SLATER ST TO BOYLES ST | SH 5 FROM BOYLES ST TO CR 375 |
|---|---|---|
| AVERAGE DAILY TRAFFIC - 2021(OPEN) | 4,100(3,770) | 4,700(4,776) |
| DIRECTIONAL DISTRIBUTION (%) | 55 - 45 | 58 - 42 |
| PERCENT TRUCKS OF DHV | 11.1 | 10.1 |
| K FACTOR | 10.8 | 10.8 |

END PROJECT
STA 164+90.00
CSJ: 0047-04-022

PROJECT LOCATION
COLLIN COUNTY
DALLAS DISTRICT
BEGIN PROJECT
STA 114+00.00
CSJ: 0047-04-022
MILE

INDEX OF ROLLS

ROLL 1 - PLAN AND PROFILE - BEGIN PROJECT TO STA 141+00
ROLL 2 - PLAN AND PROFILE - STA 141+00 TO STA 164+90
ROLL 3 - PLAN AND PROFILE - STA 164+00 TO STA 221+00
ROLL 4 - PLAN AND PROFILE - STA 221+00 TO STA 269+00
ROLL 5 - PLAN AND PROFILE - STA 269+00 TO STA 321+00
ROLL 6 - PLAN AND PROFILE - STA 321+00 TO STA 363+00
ROLL 7 - PLAN AND PROFILE - STA 363+00 TO STA 411+00
ROLL 8 - PLAN AND PROFILE - STA 411+00 TO STA 459+00
ROLL 9 - PLAN AND PROFILE - STA 459+00 TO STA 505+00
ROLL 10 - PLAN AND PROFILE - STA 505+00 TO STA 551+00
ROLL 11 - PLAN AND PROFILE - STA 551+00 TO END OF PROJECT

APPROVED
NOVEMBER 17, 2016

PREPARED BY:
CIVIL ASSOCIATES, INC.
TBPE REGISTRATION NO. F-000981

NASER ABUSAAD, P.E., AICP
LICENSE NO. 83200

GRANT WU, P.E.
LICENSE NO. 99129

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COUNTY: COLLIN
DATE: JANUARY 2017
DESIGN SCHEMATIC FOR SH 5 RECONSTRUCTION
ROLL 4 OF 11

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

# COLLIN COUNTY

## DESIGN SCHEMATIC

KELLY SELMAN, P.E.
DISTRICT ENGINEER

## SH 5 RECONSTRUCTION PROJECT

CSJ: 0047-04-022

**FROM:** SH 121N
**TO:** CR 375

NET LENGTH OF PROJECT: 8.58 MILES

**FUNCTIONAL CLASSIFICATION:**
**URBAN MINOR ARTERIAL**

**SH 5 DESIGN SPEED = 40 MPH**
**CR 423, CR 371/CR 376 DESIGN SPEED = 30 MPH**
**HIGHLAND RD & N CENTRAL ST DESIGN SPEED=30 MPH**

TRAFFIC DATA

| TRAFFIC VOLUMES BASED ON TRAFFIC FORECASTS PREPARED BY DOTD TPP-DIVISION DATED JUNE 6, 2016 | SH 5 FROM SH 121 TO BOYLES ST | SH 5 FROM BOYLES ST TO CR 375 |
|---|---|---|
| AVERAGE DAILY TRAFFIC - 2021(OPEN) | 4,190(5,770) | 4,190(5,770) |
| DIRECTIONAL DISTRIBUTION (%) | 50 - 42 | 58 - 42 |
| PERCENT TRUCKS OF DHV | 11.5 | 10.1 |
| K FACTOR | 10.8 | 10.8 |

END PROJECT
STA 168+90.00
CSJ: 0047-04-022




INDEX OF ROLLS


ROLL 1 - PLAN AND PROFILE - BEGIN PROJECT TO STA 141+00
ROLL 2 - PLAN AND PROFILE - STA 141+00 TO STA 156+00
ROLL 3 - PLAN AND PROFILE - STA 156+00 TO STA 221+00
ROLL 4 - PLAN AND PROFILE - STA 221+00 TO STA 269+00
ROLL 5 - PLAN AND PROFILE - STA 269+00 TO STA 321+00
ROLL 6 - PLAN AND PROFILE - STA 321+00 TO STA 363+00
ROLL 7 - PLAN AND PROFILE - STA 363+00 TO STA 411+00
ROLL 8 - PLAN AND PROFILE - STA 411+00 TO STA 459+00
ROLL 9 - PLAN AND PROFILE - STA 459+00 TO STA 505+00
ROLL 10 - PLAN AND PROFILE - STA 505+00 TO STA 551+00
ROLL 11 - PLAN AND PROFILE - STA 551+00 TO END OF PROJECT


**APPROVED**
**NOVEMBER 17, 2016**

PREPARED BY:
CIVIL ASSOCIATES, INC.
TBPE REGISTRATION NO. F-000881


NASER ABUSAAD, P.E., AICP
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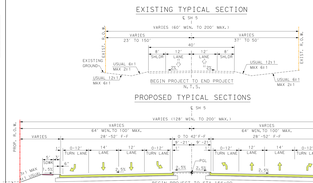

## EXISTING TYPICAL SECTION

℄ SH 5




## PROPOSED TYPICAL SECTIONS

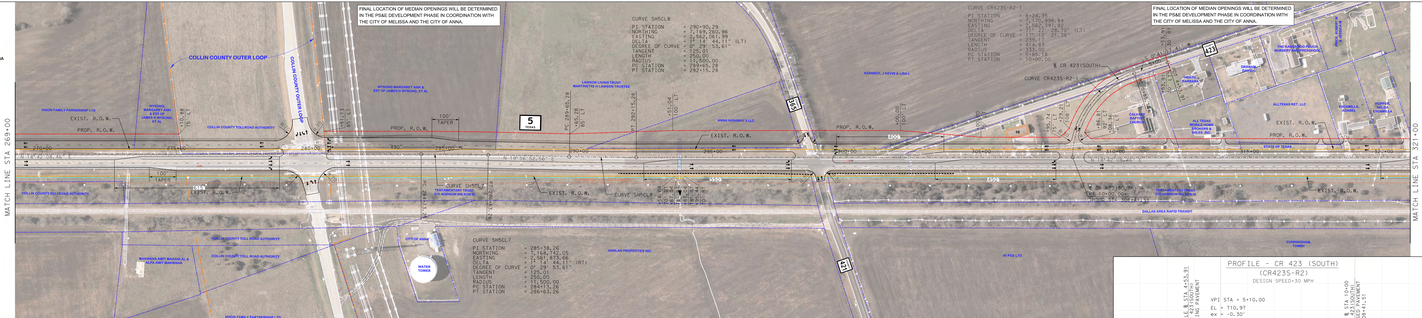
℄ SH 5




## TYPICAL INTERSECTION CURB RAMP LAYOUT

N. T. S.





FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE CITY OF MELISSA AND THE CITY OF ANNA.
COLLIN COUNTY OUTER LOOP
MATCH LINE STA 269+00
MATCH LINE STA 221+00
CURVE SHSCLB
PI STATION = 290+90.29
POINTING = 291+00.00
DELTA = 21°44'44.7" (LT)
DEGREE OF CURVE = 4°
RADIUS = 1432.39'
LENGTH = 543.49'
TANGENT = 275.00'
PT STATION = 295+44.28
PC STATION = 290+15.79
CURVE CR423SB-R2
PI STATION = 4+24.95
POINTING = 4+00.00
DELTA = 90°00'00.0" (RT)
DEGREE OF CURVE = 40°
RADIUS = 143.24'
LENGTH = 225.00'
TANGENT = 143.24'
PT STATION = 6+49.95
PC STATION = 2+24.95
CURVE CR423SB-R1
CURVE CR423SB-R3
℄ CR 423(SOUTH)
EXIST. R.O.W.
PROP. R.O.W.
CURVE SHSCLA
CURVE SHSCLT
CURVE SHSCLT
PI STATION = 285+58.26
POINTING = 285+00.00
DELTA = 21°44'44.7" (RT)
DEGREE OF CURVE = 4°
RADIUS = 1432.39'
LENGTH = 543.49'
TANGENT = 275.00'
PT STATION = 280+01.77
PC STATION = 286+63.26
COLLIN COUNTY OUTER LOOP
COLLIN COUNTY TOLLWAY AUTHORITY
WHITEHALL ASSET MANAGEMENT, LLC
WHITEHALL ASSET MANAGEMENT, LLC
LOOP TAPER
LOOP TAPER
EXISTING GROUND
EXISTING GROUND
EXISTING GROUND

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

# COLLIN COUNTY
## DESIGN SCHEMATIC

KELLY SELMAN, P.E.
DISTRICT ENGINEER

## SH 5 RECONSTRUCTION PROJECT
CSJ: 0047-04-022

**FROM:** SH 121N
**TO:** CR 375

NET LENGTH OF PROJECT: 8.58 MILES

**FUNCTIONAL CLASSIFICATION:**
**URBAN MINOR ARTERIAL**

**SH 5 DESIGN SPEED = 40 MPH**
**CR 423, CR 371/CR 376 DESIGN SPEED = 30 MPH**
**HIGHLAND RD & N CENTRAL ST DESIGN SPEED=30 MPH**

**TRAFFIC DATA**

TRAFFIC VOLUMES BASED ON TRAFFIC FORECASTS APPROVED BY DIST/TPP DIVISION DATED JUNE 6, 2016

| | SH 5 FROM SH 121 TO BUTLER ST | SH 5 FROM BUTLER ST TO CR 375 |
|---|---|---|
| AVERAGE DAILY TRAFFIC - 2021(OPEN) | 9,100(13,700) | 4,700(5,770) |
| DIRECTIONAL DISTRIBUTION (%) | 55 - 45 | 58 - 42 |
| % HEAVY TRUCKS OF DHV | 11.5 | 10.1 |
| K FACTOR | 10.8 | 10.8 |

END PROJECT
STA 164+00.00
CSJ: 0047-04-022




INDEX OF ROLLS


ROLL 1 - PLAN AND PROFILE - BEGIN PROJECT TO STA 141+00
ROLL 2 - PLAN AND PROFILE - STA 141+00 TO STA 193+00
ROLL 3 - PLAN AND PROFILE - STA 191+00 TO STA 237+00
ROLL 4 - PLAN AND PROFILE - STA 231+00 TO STA 289+00
ROLL 5 - PLAN AND PROFILE - STA 289+00 TO STA 331+00
ROLL 6 - PLAN AND PROFILE - STA 331+00 TO STA 363+00
ROLL 7 - PLAN AND PROFILE - STA 361+00 TO STA 409+00
ROLL 8 - PLAN AND PROFILE - STA 409+00 TO STA 459+00
ROLL 9 - PLAN AND PROFILE - STA 456+00 TO STA 505+00
ROLL 10 - PLAN AND PROFILE - STA 501+00 TO STA 551+00
ROLL 11 - PLAN AND PROFILE - STA 551+00 TO END OF PROJECT


**APPROVED**
**NOVEMBER 17, 2016**

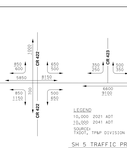
PREPARED BY:
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TBPE REGISTRATION NO. F-000881

NASER ABUSAAD, P.E., AICP
LICENSE NO. 93255

GRANT WU, P.E.
LICENSE NO. 99529


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SH 5 TRAFFIC PROJECTIONS
CR 422 TO CUNNINGHAM BLVD

EXISTING TYPICAL SECTION




PROPOSED TYPICAL SECTIONS




TYPICAL INTERSECTION
CURB RAMP LAYOUT
N.T.S.





FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE CITY OF MELISSA AND THE CITY OF ANNA.
FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE CITY OF MELISSA AND THE CITY OF ANNA.
MATCH LINE STA 321+00
MATCH LINE STA 363+00
SH 5
CR 423
CR 371
CR 376
CURVE SHSCL9
PI STATION = 333+90.96
DIRECTION = N 89°46'25" E
DELTA = 89°46'25" (RT)
DEGREE OF CURVE = 14°19'26"
RADIUS = 400.00
LENGTH = 627.09
PC STATION = 327+76.42
PT STATION = 334+03.51
CURVE CR423-R2-1
CURVE CR423-R2-2
PROP. R.O.W.
EXIST. R.O.W.
℄ CR 423 (NORTH)
SHS & STA 371+00.00
EXIST. R.O.W.
PROP. R.O.W.
℄ CR 423 (NORTH)
SHS & STA 376+00.00
EXIST. R.O.W.
PROP. R.O.W.
PROP. R.O.W.
EXIST. R.O.W.
PROP. R.O.W.
EXIST. R.O.W.
PROP. R.O.W.
EXIST

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

**COLLIN COUNTY**

**DESIGN SCHEMATIC**

KELLY SELMAN, P.E.
DISTRICT ENGINEER

# SH 5 RECONSTRUCTION PROJECT

CSJ: 0047-04-022

**FROM: SH 121N**

**TO: CR 375**

NET LENGTH OF PROJECT: 8.58 MILES

**FUNCTIONAL CLASSIFICATION:**
**URBAN MINOR ARTERIAL**

**SH 5 DESIGN SPEED = 40 MPH**
**CR 425, CR 371/CR 376 DESIGN SPEED = 30 MPH**
**HIGHLAND RD & N CENTRAL ST DESIGN SPEED=30 MPH**

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TRAFFIC FORECASTS PREPARED BY HOUSTON TOLLROAD DATED JUNE 6, 2016

| | SH 5 FROM SH 121 TO BOYER ST | SH 5 FROM BOYER ST TO CR 375 |
|---|---|---|
| AVERAGE DAILY TRAFFIC - 2021(OPEN) | N/A(N/A,705) | 4,784(4,776) |
| DIRECTIONAL DISTRIBUTION (%) | 50 - 42 | 58 - 42 |
| % FUTURE TRUCKS OF DHV | 11.5 | 10.1 |
| K FACTOR | 10.8 | 10.8 |

END PROJECT
STA 568+90.00
CSJ: 0047-04-022




INDEX OF ROLLS

ROLL 1 - PLAN AND PROFILE - BEGIN PROJECT TO STA 141+00
ROLL 2 - PLAN AND PROFILE - STA 141+00 TO STA 192+00
ROLL 3 - PLAN AND PROFILE - STA 191+00 TO STA 237+00
ROLL 4 - PLAN AND PROFILE - STA 231+00 TO STA 289+00
ROLL 5 - PLAN AND PROFILE - STA 289+00 TO STA 331+00
ROLL 6 - PLAN AND PROFILE - STA 331+00 TO STA 383+00
ROLL 7 - PLAN AND PROFILE - STA 383+00 TO STA 411+00
ROLL 8 - PLAN AND PROFILE - STA 411+00 TO STA 459+00
ROLL 9 - PLAN AND PROFILE - STA 459+00 TO STA 505+00
ROLL 10 - PLAN AND PROFILE - STA 505+00 TO STA 551+00
ROLL 11 - PLAN AND PROFILE - STA 551+00 TO END OF PROJECT

**APPROVED**
**NOVEMBER 17, 2016**

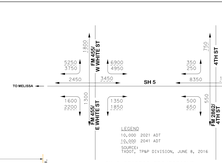
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LICENSE NO. 83200

GRANT WU, P.E.
LICENSE NO. 99529

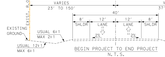
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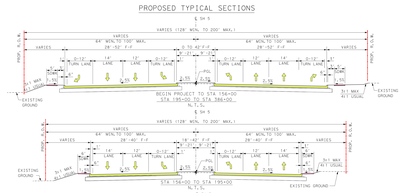



SH 5 TRAFFIC PROJECTIONS

EXISTING TYPICAL SECTION

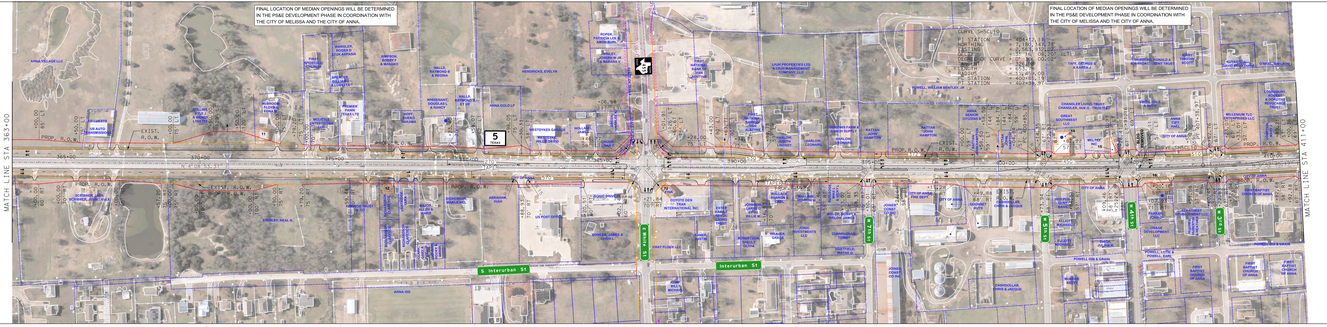



PROPOSED TYPICAL SECTIONS










NOTES:

1. PROPOSED PROFILE GENERALLY FOLLOWS EXISTING.
2. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING DETAILED DESIGN IN COORDINATION WITH THE CITIES OF ANNA AND MELISSA.
3. ALL DIMENSIONS ARE FACE OF CURB, UNLESS OTHERWISE NOTED.
4. ALL PRIVATE DRIVEWAYS HAVE A MAXIMUM 5% FOR 30 FEET, UNLESS OTHERWISE NOTED.
5. AERIAL PHOTOS AND EXISTING TOPOGRAPHY SHOWN BY TxDOT, FEBRUARY 4, 2014.
6. EXISTING RIGHT-OF-WAY SHOWN BASED ON TxDOT SURVEY: SH 121N TO FM 455 ON APRIL 12, 2001 AND FM 455 TO CR 375 ON FEBRUARY 7, 2002.
7. PARCEL BOUNDARY LOCATIONS ARE APPROXIMATE AND SUBJECT TO VERIFICATION AND CHANGE.
8. ADDITIONAL ACCESS TO PROPOSED FACILITY BY PERMIT ONLY.




LEGEND

- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- PARCEL BOUNDARY (APPROX.)
- CITY LIMITS (APPROX.)
- PERMANENT WATER EASEMENT
- PERMANENT DRAINAGE EASEMENT
- PROPOSED LANE
- EXISTING WATER LINE
- PROPOSED DRAINAGE STRUCTURE
- PROPOSED RETAINING WALL OR SCREEP
- FUTURE ROADWAY (BY OTHERS)
- 11 DISPLACEMENT
- DRAINAGE FLOW

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

COLLIN COUNTY

DESIGN SCHEMATIC

KELLY SELMAN, P.E.
DISTRICT ENGINEER

SH 5 RECONSTRUCTION PROJECT

CSJ: 0047-04-022

FROM: SH 121N

TO: CR 375

NET LENGTH OF PROJECT: 8.58 MILES

FUNCTIONAL CLASSIFICATION:
URBAN MINOR ARTERIAL

SH 5 DESIGN SPEED = 40 MPH
CR 425, CR 371/CR 376 DESIGN SPEED = 30 MPH
HIGHLAND RD & N CENTRAL ST DESIGN SPEED=30 MPH

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TRAFFIC FORECASTS PREPARED BY HOUSTON TOLLROAD DATED JUNE 6, 2016

| | SH 5 FROM SH 121 TO BOYER ST | SH 5 FROM BOYER ST TO CR 375 |
|---|---|---|
| AVERAGE DAILY TRAFFIC - 2021(OPEN) | N/A(N/A,705) | 4,784(4,776) |
| DIRECTIONAL DISTRIBUTION (%) | 50 - 42 | 58 - 42 |
| PERCENT TRUCKS OF DHV | 11.5 | 10.1 |
| K FACTOR | 10.8 | 10.8 |

END PROJECT
STA 568+90.00
CSJ: 0047-04-022

PROJECT LOCATION
COLLIN COUNTY
DALLAS DISTRICT
BEGIN PROJECT
STA 116+00.00
CSJ: 0047-04-022
MILE

INDEX OF ROLLS

ROLL 1 - PLAN AND PROFILE - BEGIN PROJECT TO STA 141+00
ROLL 2 - PLAN AND PROFILE - STA 141+00 TO STA 192+00
ROLL 3 - PLAN AND PROFILE - STA 191+00 TO STA 237+00
ROLL 4 - PLAN AND PROFILE - STA 231+00 TO STA 289+00
ROLL 5 - PLAN AND PROFILE - STA 289+00 TO STA 331+00
ROLL 6 - PLAN AND PROFILE - STA 331+00 TO STA 383+00
ROLL 7 - PLAN AND PROFILE - STA 383+00 TO STA 411+00
ROLL 8 - PLAN AND PROFILE - STA 411+00 TO STA 459+00
ROLL 9 - PLAN AND PROFILE - STA 459+00 TO STA 505+00
ROLL 10 - PLAN AND PROFILE - STA 505+00 TO STA 551+00
ROLL 11 - PLAN AND PROFILE - STA 551+00 TO END OF PROJECT

APPROVED
NOVEMBER 17, 2016

PREPARED BY:
CIVIL ASSOCIATES, INC.
TBPE REGISTRATION NO. F-000881

NASER ABUSAAD, P.E., AICP
LICENSE NO. 83200

GRANT WU, P.E.
LICENSE NO. 99529

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COUNTY: COLLIN
DATE: JANUARY 2017

DESIGN SCHEMATIC FOR SH 5 RECONSTRUCTION

ROLL 7 OF 11

SHEET NO.

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

**COLLIN COUNTY**

**DESIGN SCHEMATIC**

KELLY SELMAN, P.E.
DISTRICT ENGINEER

# SH 5 RECONSTRUCTION PROJECT

CSJ: 0047-04-032

**FROM: SH 121N**
**TO: CR 375**

NET LENGTH OF PROJECT: 8.58 MILES

**FUNCTIONAL CLASSIFICATION:**
**URBAN MINOR ARTERIAL**

**SH 5 DESIGN SPEED = 40 MPH**
**CR 423, CR 371/CR 376 DESIGN SPEED = 30 MPH**
**HIGHLAND RD & N CENTRAL ST DESIGN SPEED=30 MPH**

TRAFFIC DATA

| TRAFFIC VOLUMES BASED ON TRAFFIC FORECASTS PREPARED BY TXDOT TPP DIVISION DATED JUNE 6, 2014 | SH 5 FROM SH 121 TO MUNCIE ST | SH 5 FROM MUNCIE ST TO CR 375 |
|---|---|---|
| AVERAGE DAILY TRAFFIC - 2012 (ADT) | N/A(10,700) | 4,740(6,770) |
| DIRECTIONAL DISTRIBUTION (%) | 50 - 42 | 58 - 42 |
| PERCENT TRUCKS OF DHV | 11.1 | 10.1 |
| K FACTOR | 10.8 | 10.8 |

END PROJECT
STA 164+00.00
CSJ: 0047-04-032




INDEX OF ROLLS


ROLL 1 - PLAN AND PROFILE - BEGIN PROJECT TO STA 141+00
ROLL 2 - PLAN AND PROFILE - STA 141+00 TO STA 155+00
ROLL 3 - PLAN AND PROFILE - STA 155+00 TO STA 231+00
ROLL 4 - PLAN AND PROFILE - STA 231+00 TO STA 289+00
ROLL 5 - PLAN AND PROFILE - STA 289+00 TO STA 321+00
ROLL 6 - PLAN AND PROFILE - STA 321+00 TO STA 363+00
ROLL 7 - PLAN AND PROFILE - STA 363+00 TO STA 411+00
ROLL 8 - PLAN AND PROFILE - STA 411+00 TO STA 459+00
ROLL 9 - PLAN AND PROFILE - STA 459+00 TO STA 505+00
ROLL 10 - PLAN AND PROFILE - STA 505+00 TO STA 550+00
ROLL 11 - PLAN AND PROFILE - STA 550+00 TO END OF PROJECT


**APPROVED**
**NOVEMBER 17, 2016**

PREPARED BY:
CIVIL ASSOCIATES, INC.
TBPE REGISTRATION NO. F-000981

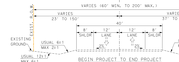
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LICENSE NO. 92200

GRANT WU, P.E.
LICENSE NO. 99129

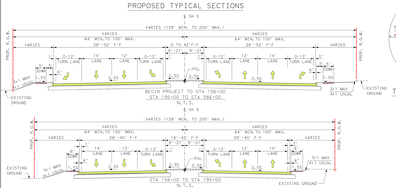
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## EXISTING TYPICAL SECTION



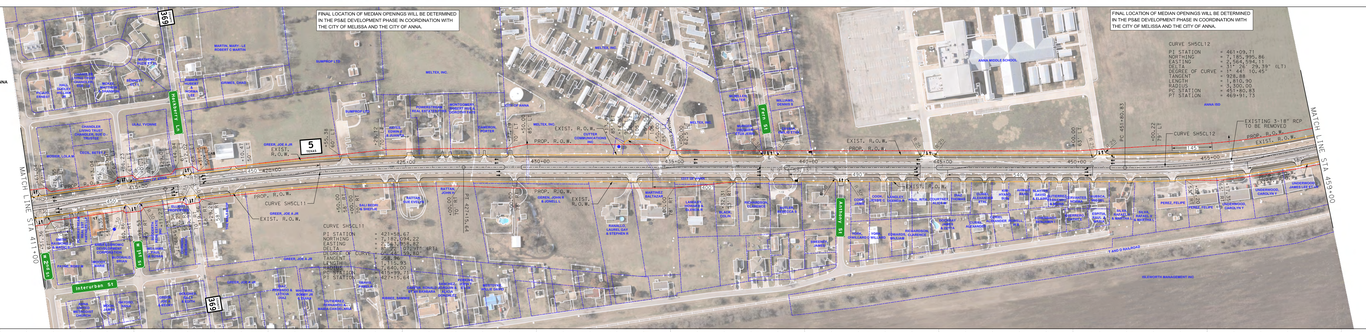

## PROPOSED TYPICAL SECTIONS




## TYPICAL INTERSECTION CURB RAMP LAYOUT




## SH 5 TRAFFIC PROJECTIONS
## CR 369/HACKBERRY LANE


FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PSE&B DEVELOPMENT PHASE IN COORDINATION WITH THE CITY OF MELISSA AND THE CITY OF ANNA.
FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PSE&B DEVELOPMENT PHASE IN COORDINATION WITH THE CITY OF MELISSA AND THE CITY OF ANNA.
SH 5
MATCH LINE STA 411+00
MATCH LINE STA 459+00
CURVE SH5CL12
PI STATION = 461+09.71
NORTHING = 7,165,995.66
EASTING = 2,497,394.39
DELTA = 31°06'11.39" (LT)
DEGREE OF CURVE = 11° 54' 10.45"
RADIUS = 481.00
LENGTH = 261.00
TANGENT = 133.60
PC STATION = 459+76.11
PT STATION = 464+37.11
CURVE SH5CL11
PI STATION = 421+54.62
NORTHING = 7,167,284.24
EASTING = 2,497,394.39
DELTA = 31°06'11.39" (LT)
DEGREE OF CURVE = 11° 54' 10.45"
RADIUS = 481.00
LENGTH = 261.00
TANGENT = 133.60
PC STATION = 419+41.02
PT STATION = 421+54.62
EXISTING 8'-18" RCP TO BE REMOVED
PROP. R.O.W.
EXIST. R.O.W.
PROP. 5'-0" SIDEWALK
PROP. 12'-0" TURN LANE
PROP. 14'-0" LANE
PROP. 12'-0" LANE
PROP. 20'-0" SIDEWALK
PROP. 3:1 SLOPE
EXIST. 3:1 SLOPE
PROP. 4:1 SLOPE
EXIST. 4:1 SLOPE
PROP. 6:1 SLOPE
EXIST. 6:1 SLOPE
PROP. 12:1 SLOPE
EXIST. 12:1 SLOPE
PROP. 6'-0" CHAIN LINK FENCE
EXIST. 6'-0" CHAIN LINK FENCE
PROP. 8'-0" WOOD FENCE
EXIST. 8'-0" WOOD FENCE
PROP. 6'-0" WOOD FENCE
EXIST. 6'-0" WOOD FENCE
PROP. 6'-0" WROUGHT IRON FENCE
EXIST. 6'-0" WROUGHT IRON FENCE
PROP. 6'-0" BARBED WIRE FENCE
EXIST. 6'-0" BARBED WIRE FENC

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

**COLLIN COUNTY**

**DESIGN SCHEMATIC**

KELLY SELMAN, P.E.
DISTRICT ENGINEER

# SH 5 RECONSTRUCTION PROJECT

CSJ: 0047-04-022

**FROM: SH 121N**
**TO: CR 375**

NET LENGTH OF PROJECT: 8.58 MILES

**FUNCTIONAL CLASSIFICATION:**
**URBAN MINOR ARTERIAL**

**SH 5 DESIGN SPEED = 40 MPH**
**CR 425, CR 371/CR 376 DESIGN SPEED = 30 MPH**
**HIGHLAND RD & N CENTRAL ST DESIGN SPEED=30 MPH**

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TxDOT SCHEMATIC PREPARED BY HDR ENGINEERING DATED JUNE 6, 2016

| | SH 5 FROM SH 121 TO BOYLES ST | SH 5 FROM BOYLES ST TO CR 375 |
|---|---|---|
| AVERAGE DAILY TRAFFIC - 2021(OPEN) | 9,100/13,700 | 4,700/6,770 |
| DIRECTIONAL DISTRIBUTION (%) | 55 - 45 | 58 - 42 |
| PERCENT TRUCKS OF DHV | 11.1 | 10.1 |
| K FACTOR | 10.8 | 10.8 |

END PROJECT
STA 568+90.20
CSJ: 0047-04-022




INDEX OF ROLLS

ROLL 1 - PLAN AND PROFILE - BEGIN PROJECT TO STA 141+00
ROLL 2 - PLAN AND PROFILE - STA 141+00 TO STA 192+00
ROLL 3 - PLAN AND PROFILE - STA 191+00 TO STA 237+00
ROLL 4 - PLAN AND PROFILE - STA 231+00 TO STA 289+00
ROLL 5 - PLAN AND PROFILE - STA 289+00 TO STA 331+00
ROLL 6 - PLAN AND PROFILE - STA 331+00 TO STA 383+00
ROLL 7 - PLAN AND PROFILE - STA 383+00 TO STA 431+00
ROLL 8 - PLAN AND PROFILE - STA 431+00 TO STA 479+00
ROLL 9 - PLAN AND PROFILE - STA 479+00 TO STA 505+00
ROLL 10 - PLAN AND PROFILE - STA 505+00 TO STA 568+90.20
ROLL 11 - PLAN AND PROFILE - STA 568+90.20 TO END OF PROJECT

**APPROVED**
**NOVEMBER 17, 2016**

PREPARED BY:
CIVIL ASSOCIATES, INC.
TBPE REGISTRATION NO. F-000981

NASER ABUSAAD, P.E., AICP
LICENSE NO. 93200

GRANT WU, P.E.
LICENSE NO. 99529

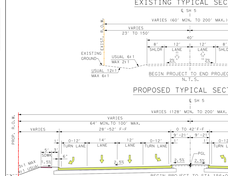
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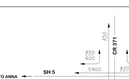
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## EXISTING TYPICAL SECTION




## PROPOSED TYPICAL SECTIONS




LEGEND
15,000 2021 ADT
10,000 2041 ADT
SOURCE:
TxDOT DALLAS DIVISION, JUNE 6, 2016
SH 5 TRAFFIC PROJECTIONS
CR 371/CR 376

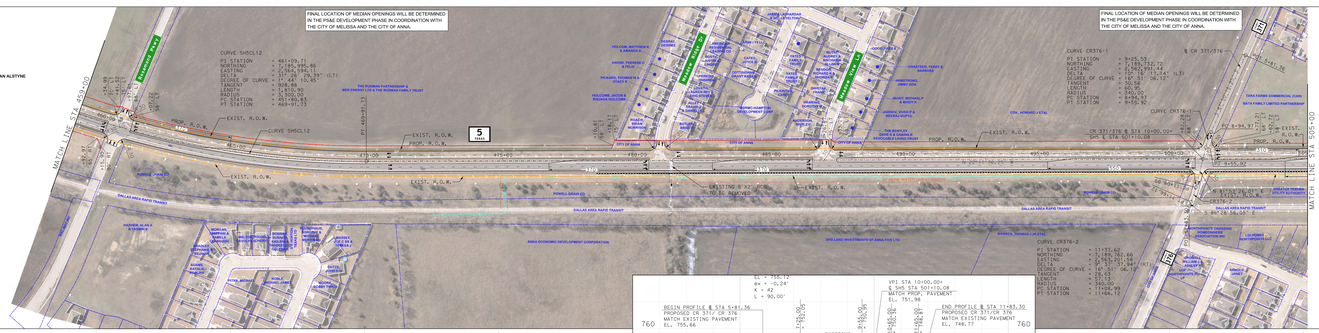
## TYPICAL INTERSECTION CURB RAMP LAYOUT







FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PD&E DEVELOPMENT PHASE IN COORDINATION WITH THE CITY OF MELISSA AND THE CITY OF ANNA.







## LEGEND

- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- PARCEL BOUNDARY (APPROX.)
- CITY LIMITS (APPROX.)
- PERMANENT WATER EASEMENT
- PERMANENT DRAINAGE EASEMENT
- PROPOSED LANE
- EXISTING WATER LINE
- PROPOSED DRAINAGE STRUCTURE
- PROPOSED RETAINING WALL OR SCREEN
- FUTURE ROADWAY (BY OTHERS)
- 11 DISPLACEMENT
- DRAINAGE FLOW

NOTES:

1. PROPOSED PROFILE GENERALLY FOLLOWS EXISTING.
2. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING DETAILED DESIGN IN COORDINATION WITH THE CITIES OF ANNA AND MELISSA.
3. ALL SIDEWALKS ARE 5' WIDE CONCRETE, UNLESS OTHERWISE NOTED.
4. ALL PRIVATE DRIVEWAYS HAVE 6:1 SLOPES OR FLATTER, UNLESS OTHERWISE NOTED.
5. AERIAL PHOTOS AND EXISTING TOPOGRAPHY SHOWN BY TxDOT, FEBRUARY 4, 2014.
6. EXISTING RIGHT-OF-WAY SHOWN BASED ON TxDOT SURVEY: SH 121N TO FM 455 ON APRIL 12, 2001 AND FM 455 TO SH 5 ON FEBRUARY 7, 2002.
7. PARCEL BOUNDARY LOCATIONS ARE APPROXIMATE AND SUBJECT TO VERIFICATION AND CHANGE.
8. ADDITIONAL ACCESS TO PROPOSED FACILITY BY PERMIT ONLY.

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

COLLIN COUNTY

DESIGN SCHEMATIC

KELLY SELMAN, P.E.
DISTRICT ENGINEER

SH 5 RECONSTRUCTION PROJECT

CSJ: 0047-04-022

FROM: SH 121N
TO: CR 375

NET LENGTH OF PROJECT: 8.58 MILES

FUNCTIONAL CLASSIFICATION:
URBAN MINOR ARTERIAL

SH 5 DESIGN SPEED = 40 MPH
CR 425, CR 371/CR 376 DESIGN SPEED = 30 MPH
HIGHLAND RD & N CENTRAL ST DESIGN SPEED=30 MPH

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TxDOT SCHEMATIC PREPARED BY HDR ENGINEERING DATED JUNE 6, 2016

| | SH 5 FROM SH 121 TO BOYLES ST | SH 5 FROM BOYLES ST TO CR 375 |
|---|---|---|
| AVERAGE DAILY TRAFFIC - 2021(OPEN) | 9,100/13,700 | 4,700/6,770 |
| DIRECTIONAL DISTRIBUTION (%) | 55 - 45 | 58 - 42 |
| PERCENT TRUCKS OF DHV | 11.1 | 10.1 |
| K FACTOR | 10.8 | 10.8 |

END PROJECT
STA 568+90.20
CSJ: 0047-04-022

PROJECT LOCATION
COLLIN COUNTY
DALLAS DISTRICT
BEGIN PROJECT
STA 114+00.00
CSJ: 0047-04-022
MILE

INDEX OF ROLLS

ROLL 1 - PLAN AND PROFILE - BEGIN PROJECT TO STA 141+00
ROLL 2 - PLAN AND PROFILE - STA 141+00 TO STA 192+00
ROLL 3 - PLAN AND PROFILE - STA 191+00 TO STA 237+00
ROLL 4 - PLAN AND PROFILE - STA 231+00 TO STA 289+00
ROLL 5 - PLAN AND PROFILE - STA 289+00 TO STA 331+00
ROLL 6 - PLAN AND PROFILE - STA 331+00 TO STA 383+00
ROLL 7 - PLAN AND PROFILE - STA 383+00 TO STA 431+00
ROLL 8 - PLAN AND PROFILE - STA 431+00 TO STA 479+00
ROLL 9 - PLAN AND PROFILE - STA 479+00 TO STA 505+00
ROLL 10 - PLAN AND PROFILE - STA 505+00 TO STA 568+90.20
ROLL 11 - PLAN AND PROFILE - STA 568+90.20 TO END OF PROJECT

APPROVED
NOVEMBER 17, 2016

PREPARED BY:
CIVIL ASSOCIATES, INC.
TBPE REGISTRATION NO. F-000981

NASER ABUSAAD, P.E., AICP
LICENSE NO. 93200

GRANT WU, P.E.
LICENSE NO. 99529

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TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

**COLLIN COUNTY**

**DESIGN SCHEMATIC**

KELLY SELMAN, P.E.
DISTRICT ENGINEER

# SH 5 RECONSTRUCTION PROJECT

CSJ: 0047-04-022

**FROM: SH 121N**

**TO: CR 375**

NET LENGTH OF PROJECT: 8.58 MILES

**FUNCTIONAL CLASSIFICATION:**
**URBAN MINOR ARTERIAL**

**SH 5 DESIGN SPEED = 40 MPH**
**CR 423, CR 371/CR 376 DESIGN SPEED = 30 MPH**
**HIGHLAND RD & N CENTRAL ST DESIGN SPEED=30 MPH**

TRAFFIC DATA

| TRAFFIC VOLUMES BASED ON TRAFFIC FORECASTS PREPARED BY NCTCOG TP&P DIVISION DATED JUNE 6, 2016 | SH 5 FROM SH 121 TO BOYER ST | SH 5 FROM BOYER ST TO CR 375 |
|---|---|---|
| AVERAGE DAILY TRAFFIC - 2021(ADT) | 6,100(3,700) | 4,700(2,775) |
| DIRECTIONAL DISTRIBUTION (%) | 55 - 45 | 58 - 42 |
| % HEAVY TRUCKS OF DHV | 11.5 | 10.1 |
| K FACTOR | 10.8 | 10.4 |

END PROJECT
STA 156+91.20
CSJ: 0047-04-022




INDEX OF ROLLS

ROLL 1 - PLAN AND PROFILE - BEGIN PROJECT TO STA 141+00
ROLL 2 - PLAN AND PROFILE - STA 141+00 TO STA 191+00
ROLL 3 - PLAN AND PROFILE - STA 191+00 TO STA 231+00
ROLL 4 - PLAN AND PROFILE - STA 231+00 TO STA 289+00
ROLL 5 - PLAN AND PROFILE - STA 289+00 TO STA 321+00
ROLL 6 - PLAN AND PROFILE - STA 321+00 TO STA 363+00
ROLL 7 - PLAN AND PROFILE - STA 363+00 TO STA 414+00
ROLL 8 - PLAN AND PROFILE - STA 414+00 TO STA 459+00
ROLL 9 - PLAN AND PROFILE - STA 459+00 TO STA 505+00
ROLL 10 - PLAN AND PROFILE - STA 505+00 TO STA 550+00
ROLL 11 - PLAN AND PROFILE - STA 550+00 TO END OF PROJECT

**APPROVED**
**NOVEMBER 17, 2016**

PREPARED BY:
CIVIL ASSOCIATES, INC.
TBPE REGISTRATION NO. F-000981

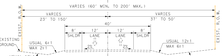
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LICENSE NO. 99529

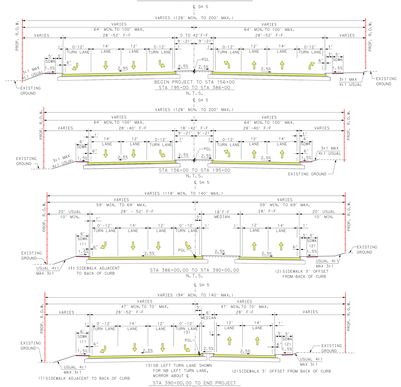
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## EXISTING TYPICAL SECTION




## PROPOSED TYPICAL SECTIONS



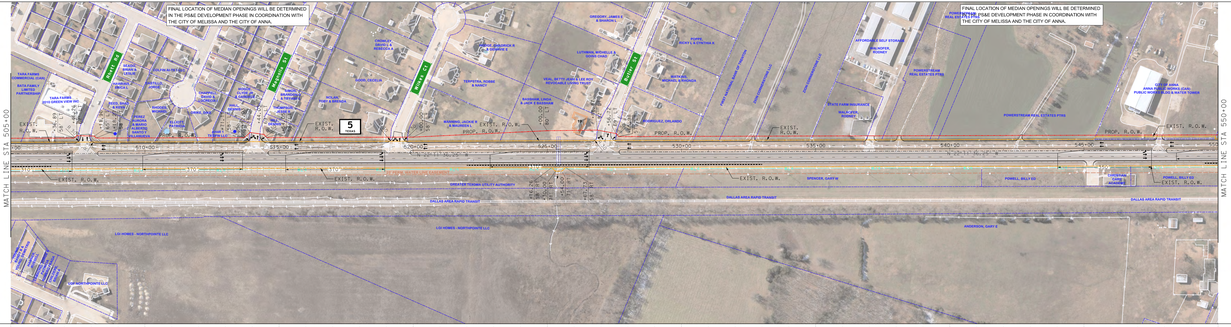







LEGEND
15,000 2021 ADT
25,000 2041 ADT
SOURCE:
NCTCOG TP&P DIVISION, JUNE 6, 2016

SH5 TRAFFIC PROJECTIONS
CR 371/CR 376







LEGEND

- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- PARCEL BOUNDARY (APPROX.)
- CITY LIMITS (APPROX.)
- PERMANENT WATER EASEMENT
- PERMANENT DRAINAGE EASEMENT
- PROPOSED LANE
- EXISTING WATER LINE
- PROPOSED DRAINAGE STRUCTURE
- PROPOSED RETAINING WALL OR SCREEP
- FUTURE ROADWAY (BY OTHERS)
- 11 DISPLACEMENT
- DRAINAGE FLOW

NOTES:

1. PROPOSED PROFILE GENERALLY FOLLOWS EXISTING.
2. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING DETAILED DESIGN IN COORDINATION WITH THE CITIES OF ANNA AND MELISSA.
3. ALL DIMENSIONS ARE FACE OF CURB, UNLESS OTHERWISE NOTED.
4. ALL PRIVATE DRIVEWAYS HAVE A 30' RADIUS AT CURB RET. UNLESS OTHERWISE NOTED.
5. AERIAL PHOTOS AND EXISTING TOPOGRAPHY SHOWN BY TxDOT, FEBRUARY 4, 2014.
6. EXISTING RIGHT-OF-WAY SHOWN BASED ON TxDOT SURVEY: SH 121N TO FM 455 ON APRIL 12, 2001 AND FM 455 TO CR 375 ON FEBRUARY 7, 2002.
7. PARCEL BOUNDARY LOCATIONS ARE APPROXIMATE AND SUBJECT TO VERIFICATION AND CHANGE.
8. ADDITIONAL ACCESS TO PROPOSED FACILITY BY PERMIT ONLY.

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

COLLIN COUNTY

DESIGN SCHEMATIC

KELLY SELMAN, P.E.
DISTRICT ENGINEER

SH 5 RECONSTRUCTION PROJECT

CSJ: 0047-04-022

FROM: SH 121N

TO: CR 375

NET LENGTH OF PROJECT: 8.58 MILES

FUNCTIONAL CLASSIFICATION:
URBAN MINOR ARTERIAL

SH 5 DESIGN SPEED = 40 MPH
CR 423, CR 371/CR 376 DESIGN SPEED = 30 MPH
HIGHLAND RD & N CENTRAL ST DESIGN SPEED=30 MPH

TRAFFIC DATA

| TRAFFIC VOLUMES BASED ON TRAFFIC FORECASTS PREPARED BY NCTCOG TP&P DIVISION DATED JUNE 6, 2016 | SH 5 FROM SH 121 TO BOYER ST | SH 5 FROM BOYER ST TO CR 375 |
|---|---|---|
| AVERAGE DAILY TRAFFIC - 2021(2041) | 6,100(3,700) | 4,700(2,775) |
| DIRECTIONAL DISTRIBUTION (%) | 55 - 45 | 58 - 42 |
| % HEAVY TRUCKS OF DHV | 11.5 | 10.1 |
| K FACTOR | 10.8 | 10.4 |

END PROJECT
STA 156+91.20
CSJ: 0047-04-022

PROJECT LOCATION
COLLIN COUNTY
DALLAS DISTRICT
BEGIN PROJECT
STA 116+00.00
CSJ: 0047-04-022
0 1 MILE

INDEX OF ROLLS

ROLL 1 - PLAN AND PROFILE - BEGIN PROJECT TO STA 141+00
ROLL 2 - PLAN AND PROFILE - STA 141+00 TO STA 191+00
ROLL 3 - PLAN AND PROFILE - STA 191+00 TO STA 231+00
ROLL 4 - PLAN AND PROFILE - STA 231+00 TO STA 289+00
ROLL 5 - PLAN AND PROFILE - STA 289+00 TO STA 321+00
ROLL 6 - PLAN AND PROFILE - STA 321+00 TO STA 363+00
ROLL 7 - PLAN AND PROFILE - STA 363+00 TO STA 414+00
ROLL 8 - PLAN AND PROFILE - STA 414+00 TO STA 459+00
ROLL 9 - PLAN AND PROFILE - STA 459+00 TO STA 505+00
ROLL 10 - PLAN AND PROFILE - STA 505+00 TO STA 550+00
ROLL 11 - PLAN AND PROFILE - STA 550+00 TO END OF PROJECT

APPROVED
NOVEMBER 17, 2016

PREPARED BY:
CIVIL ASSOCIATES, INC.
TBPE REGISTRATION NO. F-000981

NASER ABUSAAD, P.E., AICP
LICENSE NO. 83200

GRANT WU, P.E.
LICENSE NO. 99529

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Texas Department of Transportation

COUNTY: COLLIN
DATE: JANUARY 2017

DESIGN SCHEMATIC FOR SH 5 RECONSTRUCTION

ROLL 10 OF 11

| | | |
|---|---|---|
| Texas Dept. of Transportation | Civil Associates, Inc. | Texas Dept. of Transportation |
| 2016 | DESIGNED | |
| | DRAWN | |
| | CHECKED | |
| | QUANTITIES | |
| | APPROVED | |

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

COLLIN COUNTY

DESIGN SCHEMATIC

KELLY SELMAN, P.E.
DISTRICT ENGINEER

# SH 5 RECONSTRUCTION PROJECT

CSJ: 0047-04-022

FROM: SH 121N
TO: CR 375

NET LENGTH OF PROJECT: 8.58 MILES

FUNCTIONAL CLASSIFICATION:
URBAN MINOR ARTERIAL

SH 5 DESIGN SPEED = 40 MPH
CR 423, CR 371/CR 376 DESIGN SPEED = 30 MPH
HIGHLAND RD & N CENTRAL ST DESIGN SPEED=30 MPH

TRAFFIC DATA

| TRAFFIC VOLUMES BASED ON TRAFFIC FORECASTS PREPARED BY NORTH TEXAS TOLLWAY AUTHORITY DIVISION DATED JUNE 6, 2016 | SH 5 FROM SH 121 TO BOYLES ST | SH 5 FROM BOYLES ST TO CR 375 |
|---|---|---|
| AVERAGE DAILY TRAFFIC - 2021(OPEN) | 9,100(10,700) | 4,700(6,770) |
| DIRECTIONAL DISTRIBUTION (%) | 59 - 42 | 58 - 42 |
| PERCENT TRUCKS OF DHV | 11.5 | 10.1 |
| K FACTOR | 10.8 | 10.8 |

END PROJECT
STA 568+90.20
CSJ: 0047-04-022




INDEX OF ROLLS

ROLL 1 - PLAN AND PROFILE - BEGIN PROJECT TO STA 141+00
ROLL 2 - PLAN AND PROFILE - STA 141+00 TO STA 197+00
ROLL 3 - PLAN AND PROFILE - STA 197+00 TO STA 251+00
ROLL 4 - PLAN AND PROFILE - STA 251+00 TO STA 309+00
ROLL 5 - PLAN AND PROFILE - STA 309+00 TO STA 321+00
ROLL 6 - PLAN AND PROFILE - STA 321+00 TO STA 363+00
ROLL 7 - PLAN AND PROFILE - STA 363+00 TO STA 414+00
ROLL 8 - PLAN AND PROFILE - STA 414+00 TO STA 459+00
ROLL 9 - PLAN AND PROFILE - STA 459+00 TO STA 505+00
ROLL 10 - PLAN AND PROFILE - STA 505+00 TO STA 561+00
ROLL 11 - PLAN AND PROFILE - STA 561+00 TO END OF PROJECT

APPROVED
NOVEMBER 17, 2016

PREPARED BY:
CIVIL ASSOCIATES, INC.
TBPE REGISTRATION NO. F-000881

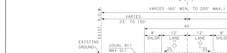
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LICENSE NO. 83200

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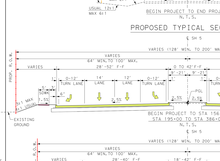
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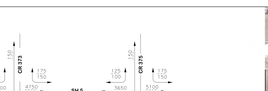
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## EXISTING TYPICAL SECTION



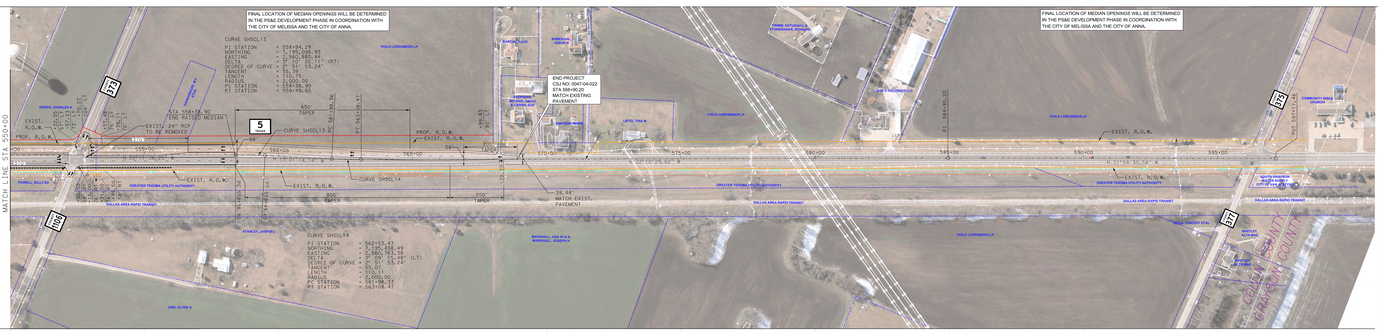

## PROPOSED TYPICAL SECTIONS








FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PD&E DEVELOPMENT PHASE IN COORDINATION WITH THE CITY OF MELISSA AND THE CITY OF ANNA.
CURVE SHSCL13
PI STATION = 548+84.29
NORTHING = 7,195,086.95
EASTING = 2,560,980.44
DEGREE OF CURVE = 0°51' 55.24" (RT)
TANGENT = 55.39
RADIUS = 6,615.00
LENGTH = 110.57
PC STATION = 547+28.90
PT STATION = 548+39.47
END PROJECT
CSJ NO: 0047-04-022
STA 568+90.20
MATCH EXISTING PAVEMENT
5
CURVE SHSCL12
PI STATION = 562+53.49
NORTHING = 7,195,458.49
EASTING = 2,560,915.36
DEGREE OF CURVE = 0°51' 55.24" (LT)
TANGENT = 55.31
RADIUS = 6,615.00
LENGTH = 110.57
PC STATION = 561+98.17
PT STATION = 563+08.74
CURVE SHSCL14
PI STATION = 557+00.00
NORTHING = 7,195,355.00
EASTING = 2,560,980.44
DELTA = 0°00' 00.00" (NO CURVE)
TANGENT = 0.00
LENGTH = 0.00
PC STATION = 557+00.00
PT STATION = 557+00.00
STA 554+34.90
END RAISED MEDIAN
TO BE REMOVED
PROP. R.O.W.
EXIST. R.O.W.
PROP. R.O.W.
EXIST. R.O.W.
EXIST. R.O.W.
EXIST. R.O.W.
EXIST. R.O.W.
EXIST. R.O.W.
200' APPR.
39.44' MATCH EXIST. PAVEMENT
FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PD&E DEVELOPMENT PHASE IN COORDINATION WITH THE CITY OF MELISSA AND THE CITY OF ANNA.
BEGIN PROJECT
CSJ NO: 0047-04-022
STA 116+00.00
MATCH EXISTING PAVEMENT
ORIGIN, CHARLES E
MELISSA, CITY OF
MELISSA, CITY OF
MELISSA, CITY OF