

**Texas Department of Transportation
Book 2 – Technical Provisions**

Grand Parkway Project

**Attachment 11-1
Cross-Street Design Criteria Matrices**

**GRAND PARKWAY
SEGMENT F-1**

| ULTIMATE BUILD | | INITIAL BUILD | | | | | | | | | | | | | | |
|-------------------------------------|--------------|------------------------|--------------------|-----------------------|----------------|------------------------|--|--------------|------------------------|---------------|-------------------------------|------------------------|------------------------|--------------|--|---------------|
| Intersecting Street | Jurisdiction | Roadway Classification | Design Speed (mph) | Position (over/under) | Design Vehicle | EASTBOUND / NORTHBOUND | | | | | Median & Turn Lanes | WESTBOUND / SOUTHBOUND | | | | |
| | | | | | | U-Turn (each) | Clear Zone for Cross Street Thru Lanes | Curb Section | Offset to face of curb | Through Lanes | | Through Lanes | Offset to face of curb | Curb Section | Clear Zone for Cross Street Thru Lanes | U-Turn (each) |
| Future Cypresswood Dr. | Harris Co. | Local Urban | 45 | under SH 99 | WB-50 | 1 | 6' | Y | 1' | 2 (12') | 2 (12') | 2 (12') | 1' | Y | 6' | 1 |
| Future Cumberland Ridge Dr. | Harris Co. | Local Urban | 45 | under SH 99 | WB-50 | 1 | 6' | Y | 1' | 3 (12') | 2 (12') | 3 (12') | 1' | Y | 6' | 0 |
| Schiel Rd. | Harris Co. | Local Rural | 40 | under SH 99 | WB-50 | 0 | No Initial Build Accommodate Ultimate Typical Section | | | | | | | | | 0 |
| Future Mason Rd. / Botkins/ Juergen | Harris Co. | Local Urban | 45 | under SH 99 | WB-50 | 0 | No Initial Build Accommodate Ultimate Typical Section | | | | | | | | | 0 |
| Mueschke Rd. | Harris Co. | Local Urban | 45 | under SH 99 | WB-50 | 0 | 6' | Y | 1' | 2 (12') | N | 2 (12') | 1' | Y | 6' | 0 |
| Cypress-Rosehill Rd. | Harris Co. | Local Urban | 45 | under SH 99 | WB-50 | 0 | 6' | Y | 1' | 2 (12') | 2 (12') with 8' curbed median | 2 (12') | 1' | Y | 6' | 0 |
| Lindsey Ln. | Harris Co. | Local Rural | 20 | under SH 99 | WB-50 | 0 | 10' | N | N | 1 (12') | N | 1 (12') | N | N | 10' | 0 |
| Cedar Lane / Future Barker Cypress | Harris Co. | Local Urban | 45 | under SH 99 | WB-50 | 0 | No Initial Build Accommodate Ultimate Typical Section | | | | | | | | | 0 |
| Telge Rd. | Harris Co. | Local Urban | 45 | under SH 99 | WB-50 | 0 | 6' | Y | 1' | 2 (12') | 2 (12') with 8' curbed median | 2 (12') | 1' | Y | 6' | 0 |
| Boudreaux Rd. (STA 3037+00) | Harris Co. | Local Urban | 45 | under SH 99 | WB-50 | 0 | 6' | Y | 1' | 1 (12') | 2 (12') | 1 (12') | 1' | Y | 6' | 1 |

Assumptions:

Urban - Minimum 5' sidewalk and curb and gutter on all urban roadways. Ped accommodations only on Urban Facilities. If columns are placed in the median, use 6' minimum offset from face of column.

Rural - No curb and gutter and sidewalk on all rural roadways.

**GRAND PARKWAY
SEGMENT F-2**

| ULTIMATE BUILD | | INITIAL BUILD | | | | | | | | | | | | | | | |
|---|--------------|------------------------|--------------------|-----------------------|----------------|------------------------|--|--------------|------------------------|---------------|--------------------------------|------------------------|------------------------|--------------|--|---------------|---|
| Intersecting Street | Jurisdiction | Roadway Classification | Design Speed (mph) | Position (over/under) | Design Vehicle | EASTBOUND / NORTHBOUND | | | | | Median & Turn Lanes | WESTBOUND / SOUTHBOUND | | | | | |
| | | | | | | U-Turn (each) | Clear Zone for Cross Street Thru Lanes | Curb Section | Offset to face of curb | Through Lanes | | Through Lanes | Offset to face of curb | Curb Section | Clear Zone for Cross Street Thru Lanes | U-Turn (each) | |
| Future Boudreaux Rd. (STA 3073+50) | Harris Co. | Local Urban | 45 | under SH 99 | WB-50 | 1 | 6' | Y | 1' | 2 (12') | (2) 12' with 6' curbed median | 2 (12') | 1' | Y | 6' | 0 | |
| Huffsmith-Kohrville Rd. | Harris Co. | Local Rural | 40 | under SH 99 | WB-50 | 0 | No Initial Build Accommodate Ultimate Typical Section | | | | | | | | | | 0 |
| Gleannloch Forest Dr. | Harris Co. | Local Urban | 40 | under SH 99 | WB-50 | 0 | 6' | Y | 1' | 2 (12') | N | 2 (12') | 1' | Y | 6' | 1 | |
| Champions Forest Dr. | Harris Co. | Local Urban | 45 | under SH 99 | WB-50 | 1 | 6' | Y | 1' | 3 (12') | 49' curbed median | 3 (12') | 1' | Y | 6' | 1 | |
| FM 2920 | TxDOT | Arterial Urban | 45 | over SH 99 | WB-50 | 1 | 6' | Y | 1' | 2 (12') | 2 (12') with 12' curbed median | 2 (12') | 1' | Y | 6' | 1 | |
| Boudreaux Rd. (STA 3305+00) / Future Stuebner Airline | Harris Co. | Local Urban | 45 | under SH 99 | WB-50 | 1 | 6' | Y | 1' | 2 (12') | 1 (12') with 2' curbed median | 2 (12') | 1' | Y | 6' | 0 | |
| Boudreaux Rd. (STA 3387+00) | Harris Co. | Local Urban | 45 | under SH 99 | WB-50 | 1 | 6' | Y | 1' | 2 (11') | 2 (11') with 6' striped median | 2 (11') | 1' | Y | 6' | 0 | |
| Kuykendahl Rd. | Harris Co. | Local Urban | 45 | under SH 99 | WB-50 | 0 | 6' | Y | 1' | 2 (12') | 2 (12') with 6' curbed median | 2 (12') | 1' | Y | 6' | 1 | |
| Hildebrandt Rd. | Harris Co. | Local Rural | 40 | under SH 99 | WB-50 | 0 | 10' | Y | 1' | 1 (12') | N | N | N | N | 10' | 0 | |
| Northcrest Dr. | Harris Co. | Local Rural | 40 | under SH 99 | WB-50 | 0 | No Initial Build Accommodate Ultimate Typical Section | | | | | | | | | | 0 |
| *Gosling Rd. | Harris Co. | Local Urban | 40 | under SH 99 | WB-50 | 0 | 6' | Y | 1' | 1 (12') | 6' curbed median | 1 (12') | 1' | Y | 6' | 0 | |
| Rothwood Rd. | Harris Co. | Local Rural | 40 | under SH 99 | WB-50 | 0 | No Initial Build Accommodate Ultimate Typical Section | | | | | | | | | | 0 |
| Mossy Oaks Rd. | Harris Co. | Local Rural | 40 | under SH 99 | WB-50 | 0 | No Initial Build Accommodate Ultimate Typical Section | | | | | | | | | | 0 |
| Springwoods Village Pkwy | Harris Co. | Local Urban | 45 | over SH 99 | WB-50 | 0 | Overall Bridge Width = 79' Lane Assignments to be Coordinated with County | | | | | | | | | | 0 |
| Holzwarth Rd | Harris Co. | Local Urban | 45 | over SH 99 | WB-50 | 0 | By Others | | | | | | | | | | 0 |
| Energy Drive | Harris Co. | Local Urban | 45 | under SH 99 | WB-50 | 0 | By Others SH 99 bridge bents to clear a 100' span centered about Energy Drive | | | | | | | | | | 0 |

Assumptions:

Urban - Minimum 5' sidewalk and curb and gutter on all urban roadways. Ped accommodations only on Urban Facilities. If columns are placed in the median, use 6' minimum offset from face of column.

Rural - No curb and gutter and sidewalk on all rural roadways.

*Initial Build indicates striping. Initial pavement will be constructed as shown in the schematic.

**GRAND PARKWAY
SEGMENT G**

| ULTIMATE BUILD | | INITIAL BUILD | | | | | | | | | | | | | | | |
|---------------------------------------|----------------|------------------------|--------------------|-----------------------|----------------|------------------------|--|--------------|------------------------|---------------|-------------------------------|------------------------|------------------------|--------------|--|---------------|---|
| Intersecting Street | Jurisdiction | Roadway Classification | Design Speed (mph) | Position (over/under) | Design Vehicle | EASTBOUND / NORTHBOUND | | | | | Median & Turn Lanes | WESTBOUND / SOUTHBOUND | | | | | |
| | | | | | | U-Turn (each) | Clear Zone for Cross Street Thru Lanes | Curb Section | Offset to face of curb | Through Lanes | | Through Lanes | Offset to face of curb | Curb Section | Clear Zone for Cross Street Thru Lanes | U-Turn (each) | |
| Northgate Crossing Blvd. | Harris Co. | Local Urban | 45 | under SH 99 | WB-50 | 0 | No Initial Build Accommodate Ultimate Typical Section | | | | | | | | | | 0 |
| Nelson St. | Harris Co. | Local Rural | 45 | under SH 99 | WB-50 | 0 | No Initial Build Accommodate Ultimate Typical Section | | | | | | | | | | 0 |
| East Hardy Rd. | Harris Co. | Local Rural | 45 | under SH 99 | WB-50 | 0 | No Initial Build Accommodate Ultimate Typical Section | | | | | | | | | | 0 |
| Old Westfield Rd / Spring Creek Trail | Harris Co. | Local Urban | 45 | under SH 99 | WB-50 | 0 | No Initial Build Accommodate Ultimate Typical Section | | | | | | | | | | 0 |
| Riley Fuzzel Rd | Montgomery Co. | Local Rural | 40 | under SH 99 | WB-50 | 0 | 10' | N | N | 2 (12') | N | 2 (12') | N | N | 10' | 1 | |
| Future Rayford Rd | Montgomery Co. | Local Urban | 45 | under SH 99 | WB-50 | 1 | 6' | Y | 1' | 2 (12') | 2 (12') with 4' curbed median | 2 (12') | 1' | Y | 6' | 1 | |
| Birnam Woods Dr. | Montgomery Co. | Local Urban | 45 | under SH 99 | WB-50 | 1 | 6' | Y | 1' | 2 (12') | 2 (12') with 4' curbed median | 2 (12') | 1' | Y | 6' | 1 | |
| Future Townsen Blvd. | Montgomery Co. | Local Urban | 45 | under SH 99 | WB-50 | 1 | 6' | Y | 1' | 2 (12') | 2 (12') with 4' curbed median | 2 (12') | 1' | Y | 6' | 0 | |
| Future Riverwalk Dr. | Montgomery Co. | Local Urban | 45 | under SH 99 | WB-50 | 0 | 6' | Y | 1' | 2 (12') | 2 (12') with 4' curbed median | 2 (12') | 1' | Y | 6' | 0 | |
| FM 1314 | TxDOT | Arterial Rural | 45 | under SH 99 | WB-50 | 0 | 16' | N | N | 2 (12') | 2 (12') with 4' curbed median | 2 (12') | N | N | 16' | 0 | |
| Future Rd. (STA 4267+00) | Montgomery Co. | Local Urban | 45 | under SH 99 | WB-50 | 0 | No Initial Build Accommodate Ultimate Typical Section | | | | | | | | | | 0 |
| Valley Ranch Blvd. | Montgomery Co. | Local Urban | 45 | under SH 99 | WB-50 | 0 | 6' | Y | 1' | 2 (12') | 2 (12') with 4' curbed median | 2 (12') | 1' | Y | 6' | 1 | |
| Future Rd. (STA 4395+00) | Montgomery Co. | Local Urban | 45 | under SH 99 | WB-50 | 1 | 6' | Y | 1' | 2 (12') | 2 (12') with 4' curbed median | 2 (12') | 1' | Y | 6' | 1 | |

Assumptions:

Urban - Minimum 5' sidewalk and curb and gutter on all urban roadways. Ped accommodations only on Urban Facilities. If columns are placed in the median, use 6' minimum offset from face of column.

Rural - No curb and gutter and sidewalk on all rural roadways.