

TEXAS DEPARTMENT OF TRANSPORTATION
TECHNICAL PROVISIONS
FOR
SH 99 GRAND PARKWAY SEGMENTS H, I-1 AND I-2

ATTACHMENT 11-1
CROSS STREET DESIGN MATRIX

RFP ADDENDUM #6

AUGUST 12, 2016

SH 99 GRAND PARKWAY
ATTACHMENT 11-1
Cross Street Design Criteria Matrix
Segment H

Intersecting Street	Ultimate Typical Section	Jurisdiction	Roadway Classification	Design Speed (mph)	Position (over/under)	Design Vehicle	NORTHBOUND					Turn Lanes	Median	SOUTHBOUND				
							U-Turn (each)	Clear Zone for Cross Street Thru Lanes	Sidewalk and Min. Usable Width (LF)	Curb and Gutter	Through Lanes			Through Lanes	Curb and Gutter	Sidewalk and Min. Usable Width (LF)	Clear Zone for Cross Street Thru Lanes	U-Turn (each)
Future Road 2G	A	Montgomery Co.	Urban Local	45	Under SH 99	WB-50	1	6'	5'	Y	2 (12')	2 (12')	4' Curbed	2 (12')	Y	5'	6'	1
IH69/US59 Northbound Frontage Road	J	TxDOT	Urban Collector	45	Under SH 99	WB-50	1	6'	5'	Y	2 (12')	1 (12')	0	N/A	N/A	N/A	N/A	N/A
IH69/US59 Mainlanes	N/A	TxDOT	Rural Freeway	70	Under SH 99	N/A	0	30'	Match Existing Mainlanes and Structures								30'	0
IH69/US59 Southbound Frontage Road	J	TxDOT	Urban Collector	45	Under SH 99	WB-50	N/A	N/A	N/A	N/A	N/A	1 (12')	0	2 (12')	Y	5'	6'	1
Loop 494	C	TxDOT	Rural Collector	45	Under SH 99	WB-50	0	16'	N/A	N	1 (12')	2 (12')	0	1 (12')	N	N/A	16'	0
Future Thoroughfare #1	A	Montgomery Co.	Urban Local	45	Under SH 99	WB-50	0	6'	5'	Y	1 (12') 1 (14')	2 (12')	2	1 (12') 1 (14')	Y	5'	6'	0
Baptist Encampment Road	B	Montgomery Co.	Rural Local	45	Under SH 99	WB-50	0	10'	N/A	N	2 (12')	N	0	2 (12')	N	N/A	10'	0
FM1485	G	TxDOT	Rural Collector	45	Under SH 99	WB-50	1	10'	N/A	N	1 (12')	2 (12')	0	1 (12')	N	N/A	10'	0
Wilderness Road	H	Montgomery Co.	Rural Local	45	Under SH 99	WB-50	1	10'	N/A	N	1 (12')	N	0	1 (12')	N	N/A	10'	0
Galaxy Blvd.	A	Montgomery Co.	Urban Local	45	Under SH 99	WB-50	0	6'	5'	Y	1 (12') 1 (14')	2 (12')	2	1 (12') 1 (14')	Y	5'	6'	0
FM1485 EB (Westbound Frontage Rd)	I	TxDOT	Rural Collector	45	Under SH 99	WB-50	1	N/A	N/A	N/A	N/A	N	0	2 (12')	N	N/A	16'	0
Cypress Hollow/ Roots Down Rd.	H	Harris Co.	Rural Local	45	Under SH 99	WB-50	0	10'	N/A	N	1 (12')	N	0	1 (12')	N	N/A	10'	0
Huffman - Cleveland Road	A	Harris Co.	Urban Local	45	Under SH 99	WB-50	0	6'	5'	Y	1 (12') 1 (14')	2 (12')	26	1 (12') 1 (14')	Y	5'	6'	0

Assumptions:

Urban - Curb and gutter with minimum 5' sidewalk on all urban roadways. Pedestrian accommodations only on Urban Facilities.

Rural - No curb and gutter, minimum 6' shoulders, minimum 10' clear zone (unless otherwise shown).

SH 99 GRAND PARKWAY
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Segment H

Intersecting Street	Ultimate Typical Section	Jurisdiction	Roadway Classification	Design Speed (mph)	Position (over/under)	Design Vehicle	EASTBOUND					Turn Lanes	Median	WESTBOUND				
							U-Turn (each)	Clear Zone for Cross Street Thru Lanes	Sidewalk and Min. Usable Width (LF)	Curb and Gutter	Through Lanes			Through Lanes	Curb and Gutter	Sidewalk and Min. Usable Width (LF)	Clear Zone for Cross Street Thru Lanes	U-Turn (each)
Future Thoroughfare #2 (Miller Wilson)	A	Liberty Co.	Urban Local	45	Under SH 99	WB-50	0	6'	5'	Y	1 (12') 1 (14')	2 (12')	26	1 (12') 1 (14')	Y	5'	6'	0
Future Thoroughfare #3 (Community)	A	Liberty Co.	Urban Local	45	Under SH 99	WB-50	0	6'	5'	Y	1 (12') 1 (14')	2 (12')	26	1 (12') 1 (14')	Y	5'	6'	0
Future Thoroughfare #3A* (Wolf Trot)	A	Liberty Co.	Urban Local	45	Under SH 99	WB-50	0	6'	5'	Y	1 (12') 1 (14')	2 (12')	26	1 (12') 1 (14')	Y	5'	6'	0
Future Thoroughfare #4 (Kingwood)	A	Liberty Co.	Urban Collector	45	Under SH 99	WB-50	0	6'	5'	Y	1 (12') 1 (14')	2 (12')	2	1 (12') 1 (14')	Y	5'	6'	0
CR622	B	Liberty Co.	Rural Local	45	Under SH 99	WB-50	0	10'	N/A	N	2 (12')	N	0	2 (12')	N	N/A	10'	0
FM686	D	TxDOT	Rural Collector	45	Under SH 99	WB-50	0	16'	N/A	N	2 (12')	2 (12')	0	2 (12')	N	N/A	16'	0
CR621	B	Liberty Co.	Rural Local	45	Under SH 99	WB-50	0	10'	N/A	N	2 (12')	N	0	2 (12')	N	N/A	10'	0
FM1960	D	TxDOT	Rural Arterial	45	Under SH 99	WB-50	0	16'	N/A	N	2 (12')	2 (12')	0	2 (12')	N	N/A	16'	0
CR605	B	Liberty Co.	Rural Local	45	Under SH 99	WB-50	0	10'	N/A	N	2 (12')	N	0	2 (12')	N	N/A	10'	0
CR603	B	Liberty Co.	Rural Local	45	Under SH 99	WB-50	0	10'	N/A	N	2 (12')	N	0	2 (12')	N	N/A	10'	0
CR602	B	Liberty Co.	Rural Local	45	Under SH 99	WB-50	0	10'	N/A	N	2 (12')	N	0	2 (12')	N	N/A	10'	0

Assumptions:

Urban - Curb and gutter with minimum 5' sidewalk on all urban roadways. Pedestrian accommodations only on Urban Facilities.

Rural - No curb and gutter, minimum 6' shoulders, minimum 10' clear zone (unless otherwise shown).

*NOTE: Crossing includes 14' wide Luce Bayou Canal access road south of roadway; see Sheet 7 of Attachment 19-2.

SH 99 GRAND PARKWAY
ATTACHMENT 11-1
Cross Street Design Criteria Matrix
Segment I-1

Intersecting Street	Ultimate Typical Section	Jurisdiction	Roadway Classification	Design Speed (mph)	Position (over/under)	Design Vehicle	EASTBOUND					Turn Lanes	Median	WESTBOUND				
							U-Turn (each)	Clear Zone for Cross Street Thru Lanes	Sidewalk and Min. Usable Width (LF)	Curb and Gutter	Through Lanes			Through Lanes	Curb and Gutter	Sidewalk and Min. Usable Width (LF)	Clear Zone for Cross Street Thru Lanes	U-Turn (each)
US90	E	TxDOT	Rural Arterial	45	Under SH 99	WB-50	0	30'	N/A	N	2 (12')	N/A	0	2 (12')	N	N/A	30'	0
CR491	H	Liberty Co.	Rural Local	30	N/A	WB-50	0	10'	N/A	N	1 (10')	N	0	1 (10')	N	N/A	10'	0
FM1413	D	TxDOT	Rural Collector	45	Under SH 99	WB-50	0	16'	N/A	N	2 (12')	2 (12')	0	2 (12')	N	N/A	16'	0
Future Thoroughfare #5A	D	Liberty Co.	Rural Local	45	Under SH 99	WB-50	0	16'	N/A	N	2 (12')	2 (12')	0	2 (12')	N	N/A	16'	0
Future Thoroughfare #5B (Sta 2549+95)	H	Liberty Co.	Rural Local	45	Under SH 99	WB-50	0	10'	N/A	N	1 (12')	N	0	1 (12')	N	N/A	10'	0
Future Thoroughfare #5B (Sta 2551+25)	B	Liberty Co.	Rural Local	45	Under SH 99	WB-50	0	10'	N/A	N	2 (12')	N	0	2 (12')	N	N/A	10'	0
Future Thoroughfare #5C	D	Liberty Co.	Rural Local	45	Under SH 99	WB-50	0	16'	N/A	N	2 (12')	2 (12')	0	2 (12')	N	N/A	16'	0
SH146	D	TxDOT	Rural Arterial	45	Under SH 99	WB-50	0	16'	N/A	N	2 (12')	2 (12')	0	2 (12')	N	N/A	16'	0
FM565* (North Crossing)	D	TxDOT	Rural Collector	45	Under SH 99	WB-50	1	10'	N/A	N	2 (12')	2 (12')	0	2 (12')	N	N/A	10'	0
Future Thoroughfare #6	A	Chambers Co.	Urban Local	45	Under SH 99	WB-50	1	6'	5'	Y	1 (12') 1 (14')	2 (12')	4	1 (12') 1 (14')	Y	5'	6'	1
IH10 Eastbound Frontage Road	J	TxDOT	Urban Collector	45	Under SH 99	WB-50	N/A	N/A	N/A	N/A	N/A	1 (12')	0	2 (12')	Y	5'	6'	1
IH10 Mainlanes	N/A	TxDOT	Rural Freeway	70	Under SH 99	N/A	0	30'	Match Existing Mainlanes and Structures								30'	0
IH10 Westbound Frontage Road	J	TxDOT	Urban Collector	45	Under SH 99	WB-50	1	6'	5'	Y	2 (12')	1 (12')	0	N/A	N/A	N/A	N/A	N/A
Future Thoroughfare #7	A	Chambers Co.	Urban Local	45	Under SH 99	WB-50	0	6'	5'	Y	1 (12') 1 (14')	2 (12')	2	1 (12') 1 (14')	Y	5'	6'	0
Kilgore Road	A	Chambers Co.	Urban Local	45	Under SH 99	WB-50	0	6'	5'	Y	1 (12') 1 (14')	2 (12')	2	1 (12') 1 (14')	Y	5'	6'	0

Assumptions:

Urban - Curb and gutter with minimum 5' sidewalk on all urban roadways. Pedestrian accommodations only on Urban Facilities.

Rural - No curb and gutter, minimum 6' shoulders, minimum 10' clear zone (unless otherwise shown).

*NOTE: Crossing includes 14' wide Barbers Hill Canal access road south of roadway; see Sheet 18 of Attachment 19-2.

SH 99 GRAND PARKWAY
ATTACHMENT 11-1
Cross Street Design Criteria Matrix
Segment I-2

Intersecting Street	Ultimate Typical Section	Jurisdiction	Roadway Classification	Design Speed (mph)	Position (over/under)	Design Vehicle	NORTHBOUND						Turn Lanes	Median	SOUTHBOUND				
							U-Turn (each)	Clear Zone for Cross Street Thru Lanes	Sidewalk and Min. Usable Width (LF)	Curb and Gutter	Through Lanes	Through Lanes			Curb and Gutter	Sidewalk and Min. Usable Width (LF)	Clear Zone for Cross Stet Thru Lanes	U-Turn (each)	
Wyoming	F	City of Baytown	Urban Local	45	Under SH 99	WB-50	0	6'	5'	Y	1 (14')	2 (12')	0	1 (14')	Y	5'	6'	0	
Lee Drive	A	City of Baytown	Urban Local	45	Under SH 99	WB-50	1	6'	5'	Y	1 (12') 1 (14')	2 (12')	2	1 (12') 1 (14')	Y	5'	6'	1	
Wismer Road	A	City of Baytown	Urban Local	45	Under SH 99	WB-50	0	6'	5'	Y	1 (12') 1 (14')	2 (12')	2	1 (12') 1 (14')	Y	5'	6'	0	
BS146	A	TxDOT	Urban Arterial	45	Under SH 99	WB-50	1	6'	5'	Y	2 (12')	2 (12')	12	2 (12')	Y	5'	6'	1	
Tri-Cities Beach Road	G	Harris Co.	Rural Local	45	Under SH 99	WB-50	0	10'	N/A	N	1 (12')	2 (12')	0	1 (12')	N	N/A	10'	1	
FM1405	A	TxDOT	Rural Collector	45	Under SH 99	WB-50	1	6'	5'	Y	2 (12')	2 (12')	4	2 (12')	Y	5'	6'	1	
Fisher Road	A	Chambers County	Urban Local	45	Under SH 99	WB-50	1	6'	5'	Y	2 (12')	2 (12')	16	2 (12')	Y	5'	6'	1	

Assumptions:

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