

# APPENDIX C.

## UNFUNDED NEEDS

### C. 1 BACKGROUND

The financial analysis for the MTP indicates a funding shortfall of approximately \$5 billion over the 23-year planning period. Most of the shortfall will be offset if policy initiatives approved by the Transportation Policy Council are realized. However, a \$55 million annual shortfall will remain.

In order to close the funding gap, the mobility needs identified on the following pages were not included in the financially constrained MTP. These needs are the result of travel demand analysis that indicates future serious and severe levels of congestion as well as input from state and local transportation providers. Costs have been estimated whenever possible using cost estimation formulas developed as part of the financial analysis. Further evaluation of the added capacity projects will be needed to determine if alternative congestion mitigation strategies are appropriate.

The total estimated cost of the projects needed to relieve all future serious and severe congestion is \$1.59 billion. These projects include those analyzed in the MTP project development process as well as projects that may need to be developed to relieve future serious and severe levels of congestion. A number of projects submitted by local governments without cost estimates are included in the needs plan as well. Costs will be estimated for these projects when there is sufficient data to do so.

STREET	CO.	FROM	TO	PROJECT DESCRIPTION	ESTIMATED PROJECT COST
27TH	GAL	BAYSHORE	FM 517	Widen from 2 to 4 lanes	\$1,210,571
ALDINE MAIL	HAR	HARDY	ALDINE WEST	Widen from 2 to 4 lanes	\$2,058,462
ALDINE WESTFIELD	HAR	RICHEY	RANKIN	Widen from 2 to 4 lanes	\$2,070,168
ALLEN GENOA	HAR	SOUTHMORE	PASADENA	Widen from 4 to 6 lanes	\$1,924,968
ALMEDA GENOA	HAR	BLACKHAWK	MONROE	Widen from 4 to 6 lanes	\$1,792,111
ANTOINE	HAR	IH 10	VICTORY	Widen from 4 to 6 lanes	\$8,741,679
ATASCOCITA	HAR	LAKE HOUSTON	JETRO	Widen from 4 to 6 lane divided	\$8,179,877
AVE. D	HAR	FRANZ	MORTON	Widen from 2 to 4 lanes	\$2,056,927

# Unfunded Needs

STREET	CO.	FROM	TO	PROJECT DESCRIPTION	ESTIMATED PROJECT COST
BAMMEL	HAR	BW 8	RICHEY	Widen from 4 to 6 lanes	\$3,396,237
BARKER	HAR	KINGSLAND	MORTON	Widen from 2 & 4 to 6 lane divided	\$4,592,352
CYPRESS					
BAY AREA	GAL	FM 528	SH 3	Widen from 6 to 8 lanes	\$4,037,011
BAY AREA	HAR	SPACE CENTER	MIDDLEBROOK	Widen from 4 to 6 lanes	\$2,727,586
BEAMER	HAR	BAY AREA BLVD	DIXIE FARM	Widen from 4 to 6 lanes	\$2,987,155
BEAMER	HAR	SCARSDALE	BW 8	Widen from 4 to 6 lanes	\$3,049,151
BEECHNUT	HAR	IH 610 (W)	ELDRIDGE	Widen from 6 to 8 lanes	\$25,154,381
BINGLE	HAR	HAMMERLY	TIDWELL	Widen from 6 to 8 lanes	\$3,903,517
BISSONNET	HAR	HAR C/L	US 59	Widen from 6 to 8 lane divided	\$26,179,948
BLALOCK	HAR	SAN FELIPE	HAMMERLY	Widen from 4 to 6 lanes	\$4,624,388
BUNKER HILL	HAR	TAYLORCREST	WESTVIEW	Widen to 6 lane divided	\$4,175,031
BW 8 (W)	HAR	US 290	W BELLFORT	Add 2 freeway lanes	\$21,530,277
CALVARY	MON	FM 234	IH 45	Widen from 2 to 4 lanes	\$6,313,972
CEMETERY	GAL	FM 517	SH 6	Widen from 2 to 4 lanes	\$5,317,539
CLAY	HAR	BARKER CYRESS	SH 6	Widen from 4 to 6 lanes	\$2,202,576
CLAY	HAR	KATYLAND	SH 99	Widen from 2 to 6 lane divided	\$8,762,511
COOK	HAR	BRAESWOOD	BELLAIRE	Widen from 4 to 6 lanes	\$2,745,450
CR 171	BRA	FM 523	S. MAIN AVE.	Widen from 2 to 4 lanes	\$5,890,265
CR 213	BRA	CR 428	SH 558	Widen from 2 to 4 lanes	\$1,365,034
CR 316	BRA	FM 521	SOUTHBOUND	Widen from 2 to 4 lanes	\$3,622,715
CROSBY	HAR	IH 10	WALLISVILLE	Widen from 4 to 6 lanes	\$2,056,927
CYPRESS	HAR	HUFFMEISTER	HAR C/L	Widen from 2 to 4 lanes	\$14,202,371
ROSEHILL					
CYPRESS- WOOD	HAR	ELLA	STUEBNER	Widen from 4 to 6 lanes	\$4,933,556
DAIRY	HAR	WESTHEIMER	IH 10	Add GSEPs	\$2,999,035
ASHFORD					
DALLAS RD	BRA	CR 103	SH 35 (W)	Widen from 2 to 4 lanes	\$3,053,359
EL CAMINO	HAR	NASA	BAY AREA	Widen from 4 to 6 lanes	\$2,005,065
ELDRIDGE	HAR	BELLAIRE	RICHMOND	Widen from 4 to 8 lanes	\$6,510,488
ELDRIDGE	HAR	HAR C/L	N. BEECHNUT	Widen from 4 to 6 lane divided	\$4,230,270
ELDRIDGE	HAR	US 290	CYPRESS	Widen from 4 to 6 lanes	\$3,556,510
ELDRIDGE	HAR	WESTHEIMER	IH 10	Widen from 4 to 6 lane divided	\$12,073,835
ELLA	HAR	20TH	PINEMONT	Widen from 4 to 8 lanes	\$8,952,117
ELLA	HAR	GULF BANK	MT. HOUSTON	Widen from 2 to 4 lanes	\$1,644,629
FM 1010	LIB	FM 2090	LIB C/L	Widen from 2 to 4 lanes	\$4,086,143
FM 1092	FOR	CARTWRIGHT	US 90	Widen from 4 to 6 lanes	\$1,698,027
FM 1093	FOR	MONTGOMERY	HARLEM	Widen from 4 to 8 lane divided	\$32,998,224
FM 1093	FOR	PEEK	HARLEM	Widen from 4 to 6 lanes	\$3,900,772
FM 1093	FOR	PEEK	BELLAIRE	Widen from 4 to 6 lanes	\$3,463,825
FM 1226	GAL	FM 518	SH 96	Widen from 2 to 4 lanes	\$1,845,074
FM 1314	MON	FM 242	FM 336	Widen from 4 to 6 lanes	\$8,939,024
FM 1314	MON	OLD HOUSTON	SH 99	Widen from 4 to 6 lanes	\$6,750,919
FM 1488	WAL	US 290	HAR C/L	Widen from 2 to 4 lanes	\$4,496,609
FM 1489	FOR	SH 36	FM 1093	Widen from 2 to 4 lanes	\$7,399,719
FM 149	MON	WOODLANDS	FM 1488	Widen from 2 to 4 lanes	\$2,758,690
FM 1960	HAR	HARDY	US 290	Add GSEPs	\$3,741,516
FM 1960	LIB	LIBERTY	HAR C/L	Widen from 2 to 4 lanes	\$13,033,808
FM 1994	FOR	SH 36	FM 762	Widen from 2 to 4 lanes	\$15,950,159
FM 2025	LIB	US 59	LIB C/L	Widen from 2 to 4 lanes	\$4,535,418
FM 2351	GAL	GAL C/L	BRA C/L	Widen from 4 to 6 lanes	\$3,662,437
FM 2351	HAR	JANA	HAR C/L	Widen from 4 to 6 lane divided	\$12,270,908
FM 242	MON	IH 45	FM 1314	Widen from 6 to 8 lanes	\$8,247,131
FM 2611	BRA	FM 2918	SH 36	Widen from 2 to 4 lanes	\$6,062,396

## Unfunded Needs

STREET	CO.	FROM	TO	PROJECT DESCRIPTION	ESTIMATED PROJECT COST
FM 2919	FOR	FOR C/L	LP 541	Widen from 2 to 4 lanes	\$5,383,743
FM 2920	HAR	CYPRESS	BAUER	Widen from 4 to 6 lanes	\$16,071,785
FM 2920	HAR	S. CHERRY	SH 99	Widen from 4 to 6 lane divided	\$13,127,220
FM 2977	FOR	FM 361	FM 762	Widen from 2 to 4 lanes	\$12,530,657
FM 359	FOR	US 90	W. BELLFORT	Widen from 4 to 6 lane divided	\$17,092,373
FM 3083	MON	IH 45	SH 105	Widen from 2 to 4 lanes	\$2,761,190
FM 517	BRA	SH 6	BRA C/L	Widen from 4 to 6 lanes	\$1,725,907
FM 517	GAL	VELASIO	GAL C/L	Widen from 4 to 6 lanes	\$1,858,315
FM 518	BRA	GAL C/L	CR 103	Widen from 4 to 6 lane divided	\$12,774,419
FM 518	GAL	SH 146	FM 1266	Widen from 4 to 6 lanes	\$1,884,796
FM 528	GAL	FM 518	BAY AREA BLVD	Widen from 6 to 8 lanes	\$3,821,327
FM 529	HAR	FRY	BARKER CYPRESS	Widen from 4 to 6 lanes	\$2,321,743
FM 529	HAR	HUFFMIESTER	US 290	Widen from 6 to 8 lanes	\$8,167,686
FM 762	FOR	CR 25	FM 1994	Widen from 2 to 4 lanes	\$7,320,274
FM 787	LIB	FM 223	GROLE	Widen from 2 to 4 lanes	\$14,228,853
FONDREN	HAR	BEECHNUT	SAN FELIPE	Widen from 6 to 8 lane divided	\$20,514,206
FRY RD	HAR	CLAY	LITTLE YORK	Widen from 2 to 4 lanes	\$3,079,841
GESSNER	HAR	GREENS	FALLBROOK	Widen from 4 to 6 lane divided	\$5,529,806
GESSNER	HAR	HARWIN	WESTVIEW	Add GSEPs	\$3,197,312
GLENLOCH	MON	SAWDUST	WOOLAND PKWY	Widen from 2 to 4 lanes	\$2,666,005
GREENBRIAR	HAR	GREENBRIAR	S. W. FWY	Widen to 4 lane divided	\$9,817,797
HAMBLE	HAR	NORTHPARK	HAR C/L	Widen from 2 to 4 lanes	\$2,017,205
HARDY	HAR	GREENS	RANKIN	Widen from 2 to 4 lanes	\$2,218,656
HARLEM	FOR	AIRPORT	US 90A	Widen from 2 & 4 to 6 lanes	\$5,146,638
HUFFSMITH	HAR	SH 249	FM 2978	Widen from 2 to 4 lanes	\$3,040,119
HUMBLE	GAL	SH 3	GULF	Widen from 2 to 4 lanes	\$3,079,841
IH 10	HAR	CROSBY	SHELDON	Add 4 freeway lanes	\$12,499,664
IH 10	HAR	UVALDE	CBD	Add 2 freeway lanes	\$14,350,547
IH 45 (N)	HAR	FM 1960	HAR C/L	Add 4 freeway lanes	\$14,563,302
IH 45 (N)	MON	FM 830	WALKER C/L	Widen from 6 to 10 freeway lanes	\$24,198,647
IH 45 (N)	HAR	RANKIN (W)	CBD	Add 2 freeway lanes	\$18,915,273
IH 45 (S)	HAR	CBD	FM 2351	Add 4 freeway lanes	\$44,268,137
IH 610 (S)	HAR	SH 225	US 90	Add 2 freeway lanes	\$14,205,920
IH 610 (W)	HAR	US 290	BRAESWOOD	Add 2 freeway lanes	\$13,352,623
JFK	HAR	ALDINE BENDER	LEE RD	Widen from 4 to 8 lanes	\$26,317,640
JONES	HAR	WEST	CYPRESSWOOD	Widen from 6 to 8 lanes	\$6,366,935
KINGSLAND	HAR	FRY	MASON	Upgrade to a major collector	\$5,234,177
KINGWOOD	HAR	LAKE HOUSTON	ALONG KINGWOOD	Widen from 4 to 6 lanes	\$2,838,135
KUYKENDAHL	HAR	ELLA	CYPRESS- WOOD	Widen from 4 to 6 lanes	\$6,022,674
KUYKENDAHL	HAR	FM 2920	HAR C/L	Widen from 2 to 4 lanes	\$10,713,294
KUYK- HUFFSMITH	HAR	KUYKENDAHL	FM 2978	Widen from 2 to 4 lanes	\$3,066,600
LEE RD	HAR	RANKIN	FM 1960	Widen from 4 to 6 lanes	\$3,155,946
LITTLE YORK	HAR	ELLA	IH 45	Widen from 2 to 4 lanes	\$1,294,715
LK. WOODLAND	MON	GOSLING	GROGAN MILL	Widen from 2 lane undivided to 6 lane divided	\$16,330,631
LOUETTA	HAR	KUYKENDAHL	T.C. JESTER	Widen from 4 to 6 lanes	\$1,484,201
LP 184	HAR	LEE RD	OLD HUMBLE	Widen from 4 to 6 lanes	\$3,996,963
LP 197	GAL	25 TH	21 ST	Widen from 4 to 6 lanes	\$1,606,739
LP 336	MON	FM 1314	FM 1484	Widen from 2 lanes undivided to 6 lanes divided	\$22,677,709
MASON	HAR	FRANZ	MORTON	Widen from 2 to 4 lanes	\$1,619,980

## Unfunded Needs

STREET	CO.	FROM	TO	PROJECT DESCRIPTION	ESTIMATED PROJECT COST
MONTGOMERY	FOR	FM 359	FOR C/L	Widen from 2 to 4 lanes	\$8,247,131
MUESCHKE	HAR	HAR C/L	SH 99	Upgrade to a major collector	\$3,252,880
N. SHEPHERD	HAR	610 LOOP	LITTLE YORK	Widen from 4 to 8 lanes	\$18,978,817
NASA 1	HAR	IH 45 (S)	SATURN	Widen from 4 & 6 to 8 lanes	\$4,523,995
NASA 1	GAL	SATURN	BEAMER	Widen from 6 to 8 lanes	\$4,250,603
NASA 1	HAR	SPACE CENTER	SH 146	Widen from 4 to 6 lanes	\$4,668,739
NORTH PARK	HAR	LAKE HOUSTON	KINGWOOD	Widen from 2 to 4 lanes	\$1,351,793
OLD WESTHEIMER	HAR	WEST PARK	WESTHEIMER	Widen from 2 to 4 lanes	\$2,202,576
PARK ROW	HAR	MASON	FRY	Widen from 2 to 4 lanes	\$2,308,503
PIN OAK	FOR	SH 99	IH 10	Widen from 2 & 4 to 6 lanes	\$5,568,766
RED BLUFF	HAR	SPENCER	BW 8	Widen from 4 to 6 lanes	\$2,533,597
S. BRAESWOOD	HAR	FONDREN	CHIMNEY ROCK	Widen from 4 to 6 lane divided	\$10,308,179
SAN FELIPE	HAR	CHIMNEY ROCK	POST OAK	Widen from 6 to 8 lane divided	\$3,094,629
SEAWALL	GAL	6TH	37TH	Widen from 4 to 6 lanes	\$2,285,403
SH 105	MON	CROCKETT	LP 336	Widen from 4 to 6 lanes	\$6,141,841
SH 105	MON	ESTORIA	MON C/L	Widen from 2 to 4 lanes	\$12,332,045
SH 105	LIB	US 59	GAL C/L	Widen from 2 to 4 lanes	\$5,171,890
SH 225	HAR	IH 610 (E)	SHAVER	Add 2 freeway lanes	\$5,825,789
SH 249	HAR	BREEN	GREENS	Widen from 6 to 8 lanes	\$6,883,327
SH 249	HAR	EXXON-HUMBLE	FM 2920	Widen from 4 to 6 lanes	\$2,282,021
SH 288	BRA	ORANGE (S)	DALLAS	Add 2 freeway lanes	\$2,515,394
SH 288	HAR	OST	CBD	Add 2 freeway lanes	\$3,555,150
SH 288	BRA	SH 332	FM 523	Widen from 6 to 8 lanes	\$8,746,327
SH 3	HAR	IH 45 (S)	GAL C/L	Replace existing drainage system; add curb & gutter	\$40,000,000
SH 332	BRA	SH 36	FM 521	Widen from 4 to 6 lanes	\$1,606,739
SH 332	BRA	SH 36	OYSTER CREEK	Widen from 4 to 6 lanes	\$2,321,743
SH 35	BRA	CR 179	FAIRWAY	Widen from 4 to 6 lanes	\$1,308,065
SH 35	BRA	FM 1459	SH 36	Widen from 4 to 6 lanes	\$5,065,964
SH 35	BRA	FM 528	FM 517	Widen from 4 to 6 lanes	\$2,361,466
SH 36	FOR	FM 1994	FM 2218	Widen from 4 to 6 lanes	\$5,718,135
SH 36	BRA	FM 521	CR 353	Widen from 2 to 4 lanes	\$2,332,842
SH 36	FOR	SH 36	FM 2218	Widen from 4 to 6 lanes	\$12,755,751
SH 6	GAL	FM 646	BRA C/L	Widen from 4 to 6 lanes	\$6,830,363
SH 6	FOR	US 59	BRA C/L	Widen from 6 to 8 lanes	\$7,540,227
SH 99	VA	IH 10 (W) Going North/East/South/ West	US 59 (S)	Widen & upgrade to 6 lane freeway	\$450,000,000
SHEPHERD	HAR	RICHMOND	DALLAS	Widen from 4 to 6 lanes	\$2,405,549
STUEBNER	HAR	SPRING	FM 2920	Widen from 2 to 4 lanes	\$2,162,854
AIRLINE	HAR	CYPRESS			
SYNOTT	HAR	BRAESWOOD	WEST PARK	Widen from 2 to 4 lanes	\$6,896,568
TC JESTER	HAR	CYPRESSWOOD	RANKIN	Widen from 4 to 6 lanes	\$6,459,621
TC JESTER	HAR	PINEMONT	LITTLE YORK	Widen from 4 to 6 lanes	\$2,325,452
TEXAS	GAL	29 AVE.	CEDAR	Widen from 4 to 6 lanes	\$2,739,285
TRAM	MON	EAST RIVER	FM 2090	Widen from 2 to 4 lanes	\$3,080,200
US 59 (N)	HAR	HAR C/L	CBD	Add 2 freeway lanes	\$18,857,422
US 59 (N)	FOR	WILLIAMS TRACE	FM 762	Add 2 freeway lanes	\$12,126,001
US 59 (S)	HAR	ALDINE MAIL RT	LEE	Add 2 freeway lanes	\$2,791,367
US 90A	FOR	SH 6	HOLCOMBE	Construct diamond lanes	\$3,500,000
VOSS	HAR	WESTHEIMER	IH 10	Widen from 4 & 6 to 8 lanes	\$4,567,796
W LAKE HOUSTON PKWY	MON	MON C/L	FM 1485	Widen from 4 to 6 lanes	\$4,218,551

## Unfunded Needs

STREET	CO.	FROM	TO	PROJECT DESCRIPTION	ESTIMATED PROJECT COST
W. BELLFORT	FOR	EASTBOUND	FM 723	Widen from 2 to 4 lanes	\$2,427,670
WALDEN	MON	LAKE CONROE	SH 105	Widen from 4 to 6 lanes	\$3,821,327
WINDFERN	HAR	JONES	BW 8 (N)	Widen from 2 to 4 lanes	\$3,530,029
WINKLER	HAR	GALVESTON	IH 45	Widen from 4 to 6 lanes	\$1,898,269
TOTAL:					\$1,586,487,112

## Costs To Be Determined:

STREET	CO.	FROM	TO	PROJECT DESCRIPTION	LEAD AGENCY
BAY AREA BLVD	HAR	@ CLEAR CRK	CNNT FM 518 & FM 528	CONST BRIDGE	CLEAR LAKE TRANSP PARTNERSHIP
CITY OF BAYTOWN CLEAR LAKE AREA	HAR			PUBLIC TRANSIT SERVICE	
	HAR			TRFFC SIG PROGRESSION & DEPLOYMT PLN FOR TRFFC CONTROLS THRGHOUT AREA IN CONJUNCTN W/ TXDOT'S TRANSTAR & METRO'S CONST GSEP	CLEAR LAKE TRANSP PARTNERSHIP
FAIRMONT PKWY FM 1092	HAR	@ SP RR			CITY OF LA PORTE
FM 2234	FOR	AMERICAN WATER CANAL US 90A	SH 6	SIDEWALK	CITY OF MISSOURI CITY
FM 270	GAL	S END CLEAR CRK BR	MISSOURI CITY LIMITS FM 646	SIDEWALK	CITY OF MISSOURI CITY
FM 2854	MO	IH 45	US 75	CONST HIKE & BIKE TRAIL	CITY OF LEAGUE CITY
FM 3345	N			MAKE IMPROVEMENTS	MONTGOMERY COUNTY
FM 360	FOR	DULLES AVE	FM 2234	RESTRIPPING BIKE LN TRL	CITY OF MISSOURI CITY
FM 518	FOR	SH 36	US 59	UPGRDE 2 LN	FT BEND COUNTY
FM 528	GAL	@ IH 45		CONST ADDT'L TRN LNS	CITY OF LEAGUE CITY
FM 646	BRA	@ SH 35 I/C	S TO FM 2917	ADD 2ND LFT TRN LN	CLEAR LAKE TRANSP PARTNERSHIP
	GAL	@ IH 45		INSTALL RTRN STORAGE LNS ON BOTH SIDES OF IH 45 ALONG W/ RAISING IH 45 FRTG RDs	GALVESTON COUNTY
FOSTORIA	MO	SH 105	US 59	MAKE IMPROVEMENTS	MONTGOMERY COUNTY
IH 45	N				
	HAR	@ NASA RD 1, BAY AREA BLVD & EL DORADO		FLOODING PROBLEMS AT THE INTERSECTIONS	CLEAR LAKE TRANSP PARTNERSHIP
IH 45	GAL	@ SH 146 / SH 6 "WYE" INTRCHG		RECONST & RAISE RD	GALVESTON COUNTY
MEYER & TODVILLE RDS NASA RD 1	HAR			DRAINAGE IMPRVMTS	
	HAR	HOSPITAL BLVD	IH 45	CONSTRUCT SIGNAL	CLEAR LAKE TRANSP PARTNERSHIP
NASA RD ONE/IH 45 FEEDER	HAR			DRAINAGE PROBLEMS @ IH 45	CLEAR LAKE TRANSP PARTNERSHIP
OLD KIRBY RD	HAR			RE-SURFACING & RE-STRUCTURING	TAYLOR LAKE VILLAGE

## Unfunded Needs

STREET	CO.	FROM	TO	PROJECT DESCRIPTION	LEAD AGENCY
RED BLUFF	HAR	@ BAY AREA BLVD & BW 8	RED BLUFF	FLOODING PROBLEMS AT THE INTR	CLEAR LAKE TRANSP PARTNERSHIP
RED BLUFF RD	HAR	SH 146	THROUGH PASADENA	IMPROVE DRAINAGE;SGNL PROBS - GRID-LOCK & LACK OF EGRESS TO "HI-SPEED" EXITS	CLEAR LAKE TRANSP PARTNERSHIP
SH 146	HAR	@ SH 225 INTR		IMPROVE DRAINAGE	CLEAR LAKE TRANSP PARTNERSHIP
SH 3	HAR	@ NASA RD 1, BAY AREA BLVD, & CO RD 2352, ELLINGTON		SIGNAL IMPROVEMENTS NEEDED	CLEAR LAKE TRANSP PARTNERSHIP
SH 6	FOR	DULLES AVE	MISSOURI CITY LIMITS	SIDEWALK	CITY OF MISSOURI CITY
SH 6	FOR	US 59 @ DULLES AVE	MISSOURI C/L	RESTRIPPING BIKE LN TRL	CITY OF MISSOURI CITY
SH 96	GAL	FM 1266	SH 146	CONST H&B	CITY OF LEAGUE CITY
SHORE ACRES/SUNRISE ST	HAR	FAIRFIELD ST	FLOOD CONTROL DITCH	DRAINAGE IMPRVMTS	
US 59	FOR	SH 6	SH 99	CONST HOV LN W/ CONGESTION PRICING	H-GAC/TXDOT
US 59	FOR	SH 99	SH 36 BYP	CONST REV HOT LN W/ CONSGESTION PRICING	H-GAC/TXDOT