

Chapter 6 – Existing and Proposed Transportation Facilities

Methodology

As discussed in Chapter 4, the Dixie MPO's CUBE modeling platform was used to analyze future traffic demand. The CUBE Model applied mathematical forecasting formulas to population, land use, socio-economic, trip generation, trip distribution, and mode choice data.

These forecasts were then imposed on the existing transportation networks. Then projects were conceptualized to relieve traffic congestion "hotspots" in each phase of the plan. Phase One includes the years 2019-2030. The associated project list was created to relieve the traffic demands of 2030. Phase Two includes 2031-2004 with a similar project list to relieve congestion under 2040 forecasts, and Phase Three includes the projects needed to meet forecast demands in 2050.

Current Network

An inventory of the current MPO road network is best noted through use of the Traffic Congestion 2050 - No-Build map in Appendix B. The roads noted in red and black indicate areas of concern or traffic congestion in 2050 if no additional projects are built.



Future Network

The Traffic Congestion 2050 - Build map, also included in Appendix B illustrates areas of concern, or traffic congestion in the year 2050 assuming that the plan projects are all built and in use at that time. Again, roads noted in red and black indicate areas of concern or traffic congestion in 2050 after all planned projects are built.

Projects and Phasing

The next several pages list a variety of transportation projects identified using the methodology outlined in chapters 3, 4, and 5 above. Projects range from highway widening to bridge and overpass construction, as well as proposed new corridors. Additionally, some UDOT projects of interest are listed even though they may lie outside the MPO boundaries because those corridors provide vital transportation connections to Urban area residents.

The Projects and Phasing Map is also included in Appendix B:

Dixie MPO Regional Transportation Plan -- Projects & Phasing

Phase 1 (2019-2029)

Project #	Route	City	Length	Project Description	Project Concept	Estimated Cost in 2019 dollars
1	3184	I	3	Old Highway 91 (I), 200 E to Shivwits Reservation	Reconstruction	6,000,000
3		SC	0.7	Red Mountain Drive, Pioneer Parkway to Western Corridor	New Construction	2,212,000
5	I-15	UDOT	0.2	I-15 MP 4 Interchange phase II improvements w/sign bridge	Widen/Reconstruct	200,000
6		SG	3	Plantations Drive, construct from Sunbrook Drive to Dixie Drive	New Construction	5,000,000
7	SR-8	UDOT	1.48	Sunset Blvd. widen to 6-lanes from Valley View Dr to 1400 W	Minor Widen/Striping	600,000
8		SG	2.1	Little Valley Road, Widen from 2450 South to Commerce Drive	Widen/Reconstruct	1,500,000
9		SG	0.9	Southern Hills Parkway Phase I, 3580 South to Commerce Drive	New Construction	3,600,000
10		SG	1.6	Quarry Ridge Drive, River Road to Commerce Drive	New Construction	6,400,000
11		SG	0.25	Airport Road from old airport to Black ridge Drive	Developer New Const.	-
12	SR-18	UDOT	2	SR-18, St. George Blvd. to Main Street	Widen/Reconstruct	45,000,000
13		SG	2.8	Astragulus Dr. from So. Pkwy Exit 1 to So. Pkwy Exit 3	Developer New Const.	-
15		SG	1.4	100 South, Widen from 700 East to Bluff St	Re-Striping	300,000
17		SG	1	700 South, Widen from 700 East to Bluff St	Re-Striping	300,000
18		SG	0.5	400 S, Ped Underpass, DSU 700 East to DSU Health Science Building	New Construction	2,800,000
23		SG	0.9	Commerce Drive- extend road from 1630 East to Southern Hills Pkwy	Widen/Reconstruct	500,000
25		SG	0.5	Red Hills Parkway (SG, W), 2000 East to Green Springs	Widen/Reconstruct	4,320,000
30		W	1	Green Springs and Telegraph Intersection Improvements	Widen/Reconstruct	2,640,000
31		SG	2.02	3000 East from 900 South to 3580 South - 5 Lane Road	Developer New Const.	-
32		SG	0.2	Wal-Mart / Home Depot Connection between Washington & St. George	New Construction	1,107,000
34a		SG / W	1	3000 East (SG) connector to 3650 South (W)	New Construction	4,340,000
34b		W	1	3650 South from 240 West to Washington Fields Road	Developer New Const.	-
34c			1	3650 South from Camioreal Rd Southern Corridor	New Construction	4,500,000
35		W	1.3	Merrill Road	Widen/Reconstruct	2,920,000
36	I-15	UDOT	1	I-15 Milepost 11 Interchange and Corridor Lane Widening, MP 10 to MP 13	New Construction	36,000,000
37		W	0.9	Washington Fields Road, Lost Ridge Dr. to 3650 South (Phase IV A & B)	Widen/Reconstruct	7,152,000
39		SG/W	2.9	Washington Fields Road (SG/W), Warner Valley Road to Airport Parkway	Developer New Const.	-

42		H	1.5	Purgatory Road	New Construction	13,500,000
43	SR-9	UDOT	2	SR-9 Interchanges: Telegraph, Purgatory, Sand Hollow Road, 3400 W, 2800 W.	Interchanges	60,000,000
45	SR-9	UDOT	2.6	So. Parkway Segment VI, I-15 to 5300 W - Widen to Freeway Standards	New Construction	60,000,000
46		H	3.6	Turf Sod Road from 4300 West to Southern Parkway	New Construction	6,500,000
48		H	0.7	2800 West, SR-9 to 600 North	New Construction	1,300,000
49	SR-7	UDOT	7.8	So. Parkway Segment IVb & V, Sand Hollow to SR-9 (1st Barrel)	New Construction	75,000,000
50		H	0.6	2300 South from 3360 West to 700 West (Phase I-III)	New Construction	19,000,000
51		H	2.5	3000 South from 1150 West to 3000 West	New Construction	4,000,000
52		H	0.6	1400 West Street from SR-9 to 600 North	New Construction	6,500,000
53		H	0.5	1150 West Street, from 600 North to SR-9	Widen/Reconstruct	1,000,000
54		H	2.2	700 West from 600 North to Airport Road	Widen/Reconstruct	6,000,000
55		SG		Traffic Control Center ITS	ITS	600,000
58		H	2.46	3400 West from Dixie Springs Drive to SR-9	New Construction	2,500,000
59	SR-9	UDOT		SR-9; I-15 to Southern Parkway Environmental Study	Environmental/ROW	2,000,000
60		SG	0.5	100 South Underpass at I-15 in St. George	Widen/Reconstruct	2,500,000
61.a		I	0.5	Western Corridor North (I), Old Highway 91 to 400 East	New Construction	1,400,000
61.b		SC/I	0.9	Western Corridor North, 400 East City Boundary to City Boundary	New Construction	3,100,000
61.c		I	1.2	Western Corridor North (I), City Boundary to Snow Canyon Parkway	New Construction	3,300,000
62		SG/SC	1.52	Plantations Drive- Sunbrook to Western Corridor	New Construction	13,000,000
63		UDOT	1.52	Western Corridor - Old Hwy 91 to Plantations Drive	New Construction	46,000,000
64		SG	0.54	Temple Trail Drive Phase 2 - Indian Hills Drive to Dixie Drive	New Construction	3,240,000
65		SG	1.05	Temple Trail Drive, Phase I from Old Airport Road to Indian Hills Drive	Developer New Const.	-
66		SG	2.7	Hidden Valley Drive Frontage Road - east side of I-15 from MP 2 to MP 4	New Construction	9,000,000
67		SG	1.7	White Dome Frontage Road - River Road to Southern Hills Parkway	Developer New Const.	-
68		UDOT	4.6	Northern Corridor Phase 1 (First 2 Lanes)	New Construction	58,000,000
69		SG	4.5	River Road, Widening/intersection improvements, Blvd. to Brigham Road	Widening	12,000,000
72	I-15	UDOT	1.7	SR-9 Phase I Interchange Modifications w/ SB I-15 Aux Lane to MP 13	Reconstruction	28,000,000
73		W	3	Washington Parkway (Green Springs to I-15 Exit 13)	Widening/New Const.	4,600,000
74		UDOT	5	Northern Corridor (BLM ROW Application Support)	Environmental/ROW	4,800,000
75	SR-7	UDOT	1	So. Parkway Segment II, Desert Canyon Dr to Airport Access (2nd barrel)	New Construction	15,480,000
83	I-15	UDOT	12	Lane Widening from MP 6-8	Widen	40,000,000
90		SG	0.5	1450 South Extension to Dixie Drive	New Construction	24,000,000

111		W	0.9	Washington Dam Road, 1900 East to East City Limits	Developer New Const.	-
117		SG	1.5	Airport Parkway from North Airport Access to West Airport Rd	New Construction	6,480,000
127		TBD	3.3	Construct Toquerville Bypass or Widen/Reconstruct SR-17 from MP1.1 to I-15	New Construction	30,360,000
130		W	0.9	4750 South from Airport Parkway to Washington Fields Road	New Construction	3,092,000
154	I-15	UDOT	0.5	I-15 SPUI or Flyover at MP 4	Widen/Reconstruct	40,000,000
155		W	1.3	Country Way, Washington Dam Road to Landfill Road	New Construction	5,200,000
Phase One (2019 to 2030)					Total Needs:	752,643,000
					Total Funds Available:	685,971,335
					State Needs	541,440,000
					Regional Needs	207,403,000
					State Funding Available	496,480,861
					Reg. Funding Available	189,490,474
					Remainder / (Overage)	(62,871,665)

Phase 2 (2030-2040)

Project #	Route	City	Length	Project Description	Project Concept	Estimated Cost in 2019 dollars
2		I	1.5	Red Mountain Blvd. (200 East) (I), Old Highway 91 to Center Street	Reconstruction	2,000,000
27		SG	2.7	Southern Hills Pkwy - new road from Commerce Drive to Southern Parkway	New Construction	10,000,000
78		SC	1.5	Pioneer Parkway, Lava Flow Drive to Red Mountain Drive	Widen/Reconstruct	12,960,000
79	SR-18	UDOT	6.0	SR-18, Red Hills Parkway to Winchester Hills	Widen/Reconstruct	70,560,000
80		SG	1.9	Dixie Drive - Widen to 7-lane section from Plantations Dr to Blackridge	New Construction	9,600,000
81		SG	0.5	New Interchange at West end of Northern Corridor	Widen/Reconstruct	26,000,000
82		UDOT	7.2	Northern Corridor - Phase 2 (Second 2 Lanes)	New Construction	46,800,000
84	I-15	UDOT	3.0	I-15 Widening (4th Lane) in Southbound direction from MP 16-13	Widen/Reconstruct	7,200,000
88	I-15	UDOT	0.3	Leeds North Interchange @ MP 23.7	Interchange Upgrade	24,000,000
92		H	2.7	3300 South from Rlington Parkway to 3000 West	New Construction	8,040,000
93		H	2.6	1500 South from 700 West to 3000 West	New Construction	7,920,000
94		SG	1.9	River Road Widen to 5-lane section from Enterprise Dr to So. Pkwy	Widening	8,208,000
95	SR-9	UDOT	3.2	SR-9, increase capacity from SR-59 to Southern Parkway	Widen/Reconstruct	24,000,000
96		EWC	2.5	Toquerville to Leeds Connector Road	New Construction	14,400,000
97		SG	3.0	Cottonwood Springs Dr from Red Hills Pkwy to Washington Parkway	New Construction	8,640,000

98		H	2.0	1500 West from 1300 South to 3000 South	New Construction	7,200,000
100		SG	1.0	Quarry Ridge Drive - extend road from Commerce Drive to West Airport Rd	New Construction	4,320,000
101		H	7.0	1150 West from 2300 South to 4700 South (Phase III)	New Construction	13,200,000
102		SG	2.6	South Frontage Rd from White Dome Frontage Rd to Rim Runner Dr	Developer New Const.	-
103		SG	4.3	Airport Loop Road from Quarry Ridge Drive to Airport Parkway	New Construction	18,576,000
105		W	0.6	Main Street from I-15 Frontage Road to Washington Parkway	New Construction	2,103,000
106		W	0.7	Extend Main Street to 100 East, south of 400 South	New Construction	2,310,000
107		W	0.8	Washington Fields Rd. - 3650 So. to Stucki Farms widen to 5-lanes (Phase V.b)	Developer New Const.	-
108		W	1.1	Wash. Fields Road - Stucki Farms to Warner Valley Rd. 5-lane section (Phase VI.b)	Developer Widen	-
109	SR-7	UDOT	4.0	So. Parkway Segment IIIa (SG & W), Airport to Warner Valley Road (2nd Barrel)	New Construction	26,904,000
110		SG	1.5	So. Pkwy East Frontage Road from Deseret Canyon Dr to So. Pkwy Interchange 9	New Construction	6,480,000
112	SR-7	UDOT	4.0	So. Parkway Segment IIIb, Warner Valley Rd. to Washington Dam Rd. (2nd Barrel)	New Construction	32,796,000
113		W	3.0	Long Valley Road	Developer New Const.	-
115	SR-7	UDOT	3.2	So. Parkway Segment IVa, Wash. Dam Rd to Sand Hollow (2nd barrel)	New Construction	17,700,000
116		H	1.2	Sand Hollow Road from SR-9 to Southern Parkway	New Construction	5,836,000
118		H	0.4	130 North from 3400 West to 3700 West	New Construction	600,000
119		H	1.3	200 North from 2800 West to 3400 West	New Construction	6,000,000
120		H	4.9	3000 West from 150 South to Southern Parkway	New Construction	16,040,000
121	SR-9	UDOT	4.6	So. Parkway Segment IVb, Sand Hollow to 3000 S (2nd Barrel)	New Construction	24,072,000
122	SR-7	UDOT	3.3	So. Parkway Segment V, 3000 S to SR-9 (2nd Barrel)	New Construction	22,656,000
123		H	4.6	2750 West from 150 South to 3000 West	New Construction	12,960,000
124		H	2.7	1300 South from 200 West to 3000 West	New Construction	6,960,000
125		H	6.8	Rlington Parkway from 400 South to 4700 South/1100 West Intersection	New Construction	21,360,000
126		H	1.3	1150 West from 100 South to 2300 South (Phase II)	Reconstruction	6,000,000
128		SG		Traffic Control Center ITS	ITS	600,000
129		SG	0.5	700 South widening under I-15 in St. George	Widen/Reconstruct	10,920,000
131		W	1.3	Interchange 8 Road from Airport Parkway to SP East Frontage Road	New/Developer	4,000,000
145		SG	0.3	I-15 - Install interchange at 700 South	New Construction	25,000,000
150		SC	1.5	Santa Clara Dr to Western Corridor Connector Road	New Construction	2,000,000
151		SG/W	0.9	Crimson Ridge Dr (SG/W) from 3300 East to Washington Fields Road	New Construction	3,800,000
153	I-15	UDOT	2.0	I-15 Lane Widening from MP 2-4	Widen	33,400,000
157		H	1.6	SR-9 South Frontage Road, Southern Parkway to Sand Hollow Road	New Construction	6,400,000

158		H	0.7	3000 West, 200 North to 600 North	New Construction	2,800,000
160	I-15	SG	1.4	White Dome Rd. from River Road to Southern Hills Parkway	New Construction	5,600,000
167		H	0.5	2800 West, 600 North to North City Limits	New/Developer	4,000,000
168		L	1.0	North Babylon Road from Leeds Connector to Leeds Main Street	New Construction	4,000,000
Phase Two (2031-2040)					Total Needs:	636,921,000
					Total Funds Available:	608,353,879
					State Needs	355,088,000
					Regional Needs	281,833,000
					State Funding Available	363,498,618
					Reg. Funding Available	244,855,261
					Remainder / (Overage)	(28,567,121)

Phase 3 (2040-2050)

Project #	Route	City	Length	Project Description	Project Concept	Estimated Cost in 2019 dollars
76		I	1.1	Kwavasa Drive (I) in Kayenta	Widen/Reconstruct	2,500,000
77		UDOT	10.0	Western Corridor, Sun River Parkway to Plantations Drive (1st Barrel)	New Construction	117,600,000
85		SG	0.5	Man O War-I-15 Crossing between Pioneer Rd to Hidden Valley Dr	New Construction	36,000,000
86		W	5.1	Pecan Road through Warner Valley (Warner Valley Road to So. Parkway)	New Construction	17,831,000
87		SG	1.8	Quality Drive from Commerce Dr to Hidden Valley Rd	New Construction	7,776,000
89		SG	3.0	400 East I-15 Ped Tunnel Crossing	New Construction	4,800,000
104	SR-59	UDOT	1.2	SR-59 from MP 22 to Big Plain Junction	Widening	15,000,000
114		W	1.5	Warner Valley Road from Southern Parkway to the road through Warner Valley	New Construction	5,337,000
134	I-15	UDOT	11.5	I-15 MP Exit 16 to Exit 27 Widening	Widening	55,000,000
135	SR-9	UDOT	3.5	SR-9 (LV), Widen from SR-17 to La Verkin eastern city limit	New Construction	12,600,000
136		SG		Traffic Control Center ITS	ITS	600,000
137	SR-59	UDOT	3.7	SR-59 - Widen from Main St to Hurricane City limits	Widen/Reconstruct	25,000,000
138	SR-9	UDOT	6.4	SR-9 - Widen to 6-Lanes from I-15 to Southern Parkway	Widen/Reconstruct	31,200,000
139		H	24.2	Warner Valley Road - Extend from Pecan Road to Honeymoon Trail Road	New Construction	200,400,000
140		SG	1.3	Snow Canyon Parkway- Widen to 7-lane section from 2000 N to SR-18	Widen/Reconstruct	9,120,000
143	SR-34	SG	0.5	SG Blvd/Red Cliffs Dr - Intersection improvements	Widen/Reconstruct	1,200,000
144		SG	0.4	1000 East- Widen to 5-lanes from SG Blvd to Red Hills Parkway	Widen/Reconstruct	2,520,000

146		H	0.1	I-15 - Install interchange at 5500 West	New Construction	20,000,000
147		SG/W	3.2	1450 S - Widen to 7-lanes between River Road and Washington Fields Road	Widen/Reconstruct	17,640,000
149	SR-18	SG	0.3	SB Flyover at the Sunset/Bluff St intersection	Widen/Reconstruct	9,000,000
152		W	1.7	Washington Fields Road - Widen from Warner Valley to 3650 S to 7-lane section	Widening	6,000,000
156		H	1.3	Turf Sod Connector Road, Turf Sod Road to Purgatory Road	New Construction	5,200,000
159	I-15	UDOT	0.3	I-15 MP 8 Industrial Road direct connect	New Construction	500,000
161	I-15	UDOT	2.6	I-15 MP 13 to MP 16 NB (4th Lane) with 3-lane exit at MP 16	New Construction	21,710,000
162		SG	0.6	Sunset Blvd, widen to 7-lanes from 1400 West to Dixie Drive	Widening	150,000
166		I	3.0	Old Highway 91 (I), Pioneer Parkway to Shivwits	Widening	3,500,000
169	I-15	UDOT	3.0	Addition of Aux lanes from Port of Entry to Southern Parkway	Widening	21,000,000
170	I-15	UDOT	6.0	Addition of NB & SB Aux lanes from Exit 13 to Exit 16	Widening	30,000,000
Phase Three (2041-2050)					Total Needs:	679,184,000
					Total Funds Available:	789,886,276
					State Needs	359,810,000
					Regional Needs	319,374,000
					State Funding Available	499,213,459
					Reg. Funding Available	290,672,817
					Remainder / (Overage)	110,702,276

All Phases (2019-2050)	
Total Needs	2,064,948,000
Total Funds Available	2,084,211,490
Total Difference	19,263,490

State	
Total Funding Available	1,359,192,938
Total Needs	1,256,338,000
Total Difference	102,854,938

Regional	
Total Funding Available	725,018,552
Total Needs	808,610,000

Total Difference (83,591,448)

Unfunded Needs

Project #	Route	City	Length	Project Description	Project Concept	Estimated Cost in 2019 dollars
132		SG	2.6	Green Valley Drive- extend road to Western Corridor	New Construction	22,464,000
133		SG	1.9	Navajo Drive- extend road to Western Corridor	New Construction	11,340,000
148		W	6.7	Honeymoon Trail Road from south end of Warner Valley and Southern Parkway	New Construction	52,800,000
91		EWC	4.0	Babylon Road	New Construction	40,000,000
					Total Unfunded Needs:	(126,604,000)