

Appendix N

Preliminary Costs

I-40 NO BUILD COST ESTIMATE
AZ STATE LINE TO ALBUQUERQUE

COST ESTIMATE SUMMARY

I-40 NO BUILD COST ESTIMATE		
CATEGORY	ESTIMATED COST	REMARKS
ROADWAY COST PER MILE	\$ 8,627,460	INCLUDES THE COST FOR PAVING, REMOVAL OF SURFACING, CBC AND PIPE UPSIZING, STRIPING, RUMBLE STRIPS, AND REMAINING ITEMS. TRAFFIC CONTROL DEVICES, DETOUR PAVEMENT AND TCWB, CLEARING & GRUBBING, CONTINGENCY, ETC.
BRIDGE COST PER MILE	\$ 4,590,951	INCLUDES THE COST FOR NEW BRIDGES AND BRIDGE WIDENING WITH A CONTINGENCY
TOTAL COST PER MILE	\$ 13,218,412	
TOTAL COST	\$ 1,982,761,754	150 MILES

COST ESTIMATE ASSUMPTIONS

GENERAL

1. CONSTRUCTION COSTS ARE BASED ON NMDOT'S JANUARY 2022 TO DECEMBER 2022 AVERAGE UNIT BID PRICES.
2. COSTS DO NOT INCLUDE NEW MEXICO GROSS RECEIPTS TAX OR PROJECT DEVELOPMENT.

DETAILED

1. ASPHALT PAVEMENT SECTION: 9" HMA, 6" BASE COURSE
2. REHABILITATION PAVEMENT SECTION: 3" COLD MILLING (ASPHALT), 3" HMA
3. ANY CONCRETE PAVEMENT WITHIN THE PROJECT LIMITS WILL BE REMOVED AND REPLACED WITH ASPHALT PAVEMENT.
4. THE PAVEMENT RECONSTRUCTION AND REHABILITATION AREAS WERE BASED ON THE GEOTECH REPORT FROM TERRACON.

I-40 NO BUILD COST ESTIMATE
AZ STATE LINE TO ALBUQUERQUE

SEPARATED ROADWAY COST ESTIMATE SUMMARY

I-40 FULL RECONSTRUCTION		
CATEGORY	ESTIMATED COST	REMARKS
PAVING (FULL RECONSTRUCTION)	\$ 2,773,041	FULL RECONSTRUCTION COST/77 MILES
REMOVALS	\$ 370,780	REMOVAL OF SURFACING OF ROADWAY/77 MILES
CBC UPSIZING	\$ 260,502	MAJOR AND MINOR CBC'S (UNDERSIZED STRUCTURES)/150
PIPE UPSIZING	\$ 82,626	CULVERT PIPE UPSIZING/150
STRIPING	\$ 17,137	STRIPING FOR I-40 (3 COATS)/150 MILES
RUMBLE STRIPS	\$ 6,966	RUMBLE STRIPS ALONG SHOULDERS/150 MILES
SUBTOTAL A	\$ 3,511,051	COST PER MILE
REMAINING ITEMS	\$ 1,755,525	50%
SUBTOTAL B	\$ 5,266,576	
PERCENTAGE ITEMS (ITEMS BELOW ARE PERCENTAGES OF SUBTOTAL B)		
TRAFFIC CONTROL DEVICES	\$ 1,053,315	20%
DETOUR PAVEMENT AND TCWB	\$ 1,316,644	25%
CLEARING & GRUBBING	\$ 52,666	1%
MOBILIZATION	\$ 526,658	10%
CONSTRUCTION STAKING	\$ 157,997	3%
COST ESCALATION	\$ 315,995	6%
AUGMENTATION	\$ 421,326	8%
SUBTOTAL C	\$ 3,844,600	
PROJECT SUBTOTAL	\$ 9,111,176	SUBTOTAL B + SUBTOTAL C
CONTINGENCY	\$ 1,822,235	20%
FULL RECON COST PER MILE	\$ 10,933,412	DOES NOT INCLUDE R/W, PROJECT DEVELOPMENT (DESIGN/ENVIRONMENTAL/TRIBAL), E&C AND NMGR

FULL RECON COST \$ 841,872,693 FOR 77 MILES
MILL & INLAY COST \$ 452,246,381 FOR 73 MILES
ROADWAY TOTAL \$ 1,294,119,074

ROADWAY COST PER MILE	\$ 8,627,460
------------------------------	---------------------

CATEGORY	ESTIMATED COST	REMARKS
FULL RECONSTRUCTION	\$ 213,524,135	FOR ENTIRE CORRIDOR (77 MILES)
MILL & INLAY	\$ 69,088,683	FOR ENTIRE CORRIDOR (73 MILES)

I-40 MILL & INLAY		
CATEGORY	ESTIMATED COST	REMARKS
PAVING (MILL & INLAY)	\$ 946,420	MILL & INLAY COST/73 MILES
CBC UPSIZING	\$ 260,502	MAJOR AND MINOR CBC'S (UNDERSIZED STRUCTURES)/150
PIPE UPSIZING	\$ 82,626	CULVERT PIPE UPSIZING/150
STRIPING	\$ 17,137	STRIPING FOR I-40 (3 COATS)/150 MILES
RUMBLE STRIPS	\$ 6,966	RUMBLE STRIPS ALONG SHOULDERS/150 MILES
SUBTOTAL A	\$ 1,313,651	COST PER MILE
REMAINING ITEMS	\$ 4,379	50%
SUBTOTAL B	\$ 1,318,030	
PERCENTAGE ITEMS (ITEMS BELOW ARE PERCENTAGES OF SUBTOTAL B)		
TRAFFIC CONTROL DEVICES	\$ 1,053,315	20%
DETOUR PAVEMENT AND TCWB	\$ 1,316,644	25%
CLEARING & GRUBBING	\$ 52,666	1%
MOBILIZATION	\$ 526,658	10%
CONSTRUCTION STAKING	\$ 157,997	3%
COST ESCALATION	\$ 315,995	6%
AUGMENTATION	\$ 421,326	8%
SUBTOTAL C	\$ 3,844,600	
PROJECT SUBTOTAL	\$ 5,162,630	SUBTOTAL B + SUBTOTAL C
CONTINGENCY	\$ 1,032,526	20%
MILL & INLAY COST PER MILE	\$ 6,195,156	DOES NOT INCLUDE R/W, PROJECT DEVELOPMENT (DESIGN/ENVIRONMENTAL/TRIBAL), E&C AND NMGR

I-40 NO BUILD COST ESTIMATE
 AZ STATE LINE TO ALBUQUERQUE

BRIDGE COST ESTIMATE SUMMARY

I-40 NO BUILD PRELIMINARY COST ESTIMATE		
CATEGORY	ESTIMATED COST	REMARKS
BRIDGE WIDENING	\$ 565,328,000	I-40 BRIDGES
NEW BRIDGES	\$ 8,540,900	OVERPASSES, INTERCHANGE MODIFICATIONS & UNDERPASSES
BRIDGE SUBTOTAL	\$ 573,868,900	
CONTINGENCY	\$ 114,773,780	20%
BRIDGE TOTAL	\$ 688,642,680	
BRIDGE COST PER MILE	\$ 4,590,951	DIVIDES 'BRIDGE TOTAL' BY 150 MILES

I-40 2-LANE ENHANCED COST ESTIMATE
AZ STATE LINE TO ALBUQUERQUE

COST ESTIMATE SUMMARY

I-40 2-LANE ENHANCED PRELIMINARY COST ESTIMATE		
CATEGORY	ESTIMATED COST	REMARKS
ROADWAY COST PER MILE	\$ 16,256,297	INCLUDES THE COST FOR PAVING, CWB, REMOVAL OF SURFACING, CBC AND PIPE UPSIZING, MEDIAN INLETS, STRIPING, RUMBLE STRIPS, AND REMAINING ITEMS. TRAFFIC CONTROL DEVICES, DETOUR PAVEMENT AND TCWB, CLEARING & GRUBBING, CONTINGENCY, ETC.
BRIDGE COST PER MILE	\$ 8,663,202	INCLUDES THE COST FOR NEW BRIDGES AND BRIDGE WIDENING WITH A CONTINGENCY
TOTAL COST PER MILE	\$ 24,919,499	
TOTAL COST	\$ 3,737,924,876	150 MILES

I-40 PRELIMINARY CROSSOVER COST ESTIMATE		
TOTAL CROSSOVER COST	\$ 4,822,770	61 TOTAL CROSSOVERS

COST ESTIMATE ASSUMPTIONS

GENERAL

1. PAVEMENT WIDENING INCLUDES WIDENING THE EXISTING SHOULDERS TO 12'.
2. OVERPASSES WILL BE RECONSTRUCTED WHERE PIERS/ABUTMENTS DON'T PROVIDE ROOM FOR WIDENING.
3. CBC UNDERPASSES WILL BE REPLACED WITH NEW BRIDGES.
4. CONSTRUCTION COSTS ARE BASED ON NMDOT'S JANUARY 2022 TO DECEMBER 2022 AVERAGE UNIT BID PRICES.
5. COSTS DO NOT INCLUDE NEW MEXICO GROSS RECEIPTS TAX, PROJECT DEVELOPMENT, RIGHT-OF-WAY, OR RAMP EXTENSIONS.

DETAILED

1. ASPHALT PAVEMENT SECTION: 9" HMA, 6" BASE COURSE
2. REHABILITATION PAVEMENT SECTION: 3" COLD MILLING (ASPHALT), 3" HMA
3. ANY CONCRETE PAVEMENT WITHIN THE PROJECT LIMITS WILL BE REMOVED AND REPLACED WITH ASPHALT PAVEMENT.
4. THE PAVEMENT RECONSTRUCTION AND REHABILITATION AREAS WERE BASED ON THE GEOTECH REPORT FROM TERRACON.

THIS ESTIMATE DOES NOT INCLUDE THE COST OF BUILDING 3 LANES THROUGH GALLUP OR THE 5 PROPOSED CLIMBING LANES. THE ADDED COST OF BUILDING 3 LANES IN THESE AREAS IS ESTIMATED TO BE \$88,039,591 FOR A TOTAL COST OF \$3,825,964,467 FOR 150 MILES OR \$25,506,430 PER MILE.

I-40 2-LANE ENHANCED COST ESTIMATE
AZ STATE LINE TO ALBUQUERQUE

SEPARATED ROADWAY COST ESTIMATE SUMMARY

I-40 2-LANE ENHANCED FULL RECONSTRUCTION		
CATEGORY	ESTIMATED COST	REMARKS
PAVING (FULL RECONSTRUCTION)	\$ 3,864,677	FULL RECONSTRUCTION COST/77 MILES
BARRIERS	\$ 1,610,400	CWB FOR 1 MILE
REMOVALS	\$ 375,627	REMOVAL OF SURFACING OF ROADWAY/77 MILES
CBC UPSIZING	\$ 260,502	MAJOR AND MINOR CBC'S/150 MILES
PIPE UPSIZING	\$ 82,626	CULVERT PIPE UPSIZING/150 MILES
MEDIAN DROP INLETS	\$ 16,333	MEDIAN DROP INLETS/150 MILES
STRIPING	\$ 17,097	STRIPING FOR I-40 (3 COATS)/150 MILES
RUMBLE STRIPS	\$ 6,966	RUMBLE STRIPS ALONG SHOULDERS/150 MILES
SUBTOTAL A	\$ 6,234,227	COST PER MILE
REMAINING ITEMS	\$ 3,117,113	50%
SUBTOTAL B	\$ 9,351,340	
PERCENTAGE ITEMS (ITEMS BELOW ARE PERCENTAGES OF SUBTOTAL B)		
TRAFFIC CONTROL DEVICES	\$ 1,870,268	20%
DETOUR PAVEMENT AND TCWB	\$ 2,337,835	25%
CLEARING & GRUBBING	\$ 93,513	1%
MOBILIZATION	\$ 935,134	10%
CONSTRUCTION STAKING	\$ 280,540	3%
COST ESCALATION	\$ 561,080	6%
AUGMENTATION	\$ 748,107	8%
SUBTOTAL C	\$ 6,826,478	
PROJECT SUBTOTAL	\$ 16,177,819	SUBTOTAL B + SUBTOTAL C
CONTINGENCY	\$ 3,235,564	20%
FULL RECON + SHOULDER WIDENING COST PER MILE	\$ 19,413,382	DOES NOT INCLUDE R/W, PROJECT DEVELOPMENT (DESIGN/ENVIRONMENTAL/TRIBAL), E&C AND NMGR

FULL RECON + SHOULDER WIDENING COST \$ 1,494,830,450 FOR 77 MILES
MILL & INLAY + WIDENING COST \$ 943,614,066 FOR 73 MILES
ROADWAY TOTAL \$ 2,438,444,516

ROADWAY COST PER MILE	\$ 16,256,297
------------------------------	----------------------

CATEGORY	ESTIMATED COST	REMARKS
WIDENING	\$ 80,428,852	IN MILL AND INLAY AREAS
FULL RECONSTRUCTION	\$ 297,580,095	FOR ENTIRE CORRIDOR (77 MILES)
MILL & INLAY	\$ 55,630,819	FOR ENTIRE CORRIDOR (73 MILES)

I-40 2-LANE ENHANCED MILL & INLAY + WIDENING		
CATEGORY	ESTIMATED COST	REMARKS
PAVING (MILL & INLAY + WIDENING)	\$ 1,863,831	WIDENING + MILL & INLAY COST/73 MILES
BARRIERS	\$ 1,610,400	CWB FOR 1 MILE
REMOVALS	\$ 74,509	REMOVAL OF SURFACING OF SHOULDERS/73 MILES
CBC UPSIZING	\$ 260,502	MAJOR AND MINOR CBC'S/150 MILES
PIPE UPSIZING	\$ 82,626	CULVERT PIPE UPSIZING/150 MILES
MEDIAN DROP INLETS	\$ 16,333	MEDIAN DROP INLETS/150 MILES
STRIPING	\$ 17,097	STRIPING FOR I-40 (3 COATS)/150 MILES
RUMBLE STRIPS	\$ 6,966	RUMBLE STRIPS ALONG SHOULDERS/150 MILES
SUBTOTAL A	\$ 3,932,264	COST PER MILE
REMAINING ITEMS	\$ 13,108	50%
SUBTOTAL B	\$ 3,945,372	
PERCENTAGE ITEMS (ITEMS BELOW ARE PERCENTAGES OF SUBTOTAL B)		
TRAFFIC CONTROL DEVICES	\$ 1,870,268	20%
DETOUR PAVEMENT AND TCWB	\$ 2,337,835	25%
CLEARING & GRUBBING	\$ 93,513	1%
MOBILIZATION	\$ 935,134	10%
CONSTRUCTION STAKING	\$ 280,540	3%
COST ESCALATION	\$ 561,080	6%
AUGMENTATION	\$ 748,107	8%
SUBTOTAL C	\$ 6,826,478	
PROJECT SUBTOTAL	\$ 10,771,850	SUBTOTAL B + SUBTOTAL C
CONTINGENCY	\$ 2,154,370	20%
MILL & INLAY + WIDENING COST PER MILE	\$ 12,926,220	DOES NOT INCLUDE R/W, PROJECT DEVELOPMENT (DESIGN/ENVIRONMENTAL/TRIBAL), E&C AND NMGR

I-40 2-LANE ENHANCED COST ESTIMATE
 AZ STATE LINE TO ALBUQUERQUE

BRIDGE COST ESTIMATE SUMMARY

I-40 2-LANE ENHANCED PRELIMINARY COST ESTIMATE		
CATEGORY	ESTIMATED COST	REMARKS
BRIDGE WIDENING	\$ 744,276,000	I-40 BRIDGES
NEW BRIDGES	\$ 338,624,300	OVERPASSES, INTERCHANGE MODIFICATIONS & UNDERPASSES
BRIDGE SUBTOTAL	\$ 1,082,900,300	
CONTINGENCY	\$ 216,580,060	20%
BRIDGE TOTAL	\$ 1,299,480,360	
BRIDGE COST PER MILE	\$ 8,663,202	DIVIDES 'BRIDGE TOTAL' BY 150 MILES

I-40 3-LANE COST ESTIMATE
AZ STATE LINE TO ALBUQUERQUE

COST ESTIMATE SUMMARY

I-40 3-LANE PRELIMINARY COST ESTIMATE		
CATEGORY	ESTIMATED COST	REMARKS
ROADWAY COST PER MILE	\$ 21,841,040	INCLUDES THE COST FOR PAVING, CWB, REMOVAL OF SURFACING, CBC AND PIPE EXTENTIONS, STRIPING, RUMBLE STRIPS, AND REMAINING ITEMS. TRAFFIC CONTROL DEVICES, DETOUR PAVEMENT AND TCWB, CLEARING & GRUBBING, CONTINGENCY, ETC.
BRIDGE COST PER MILE	\$ 9,850,735	INCLUDES THE COST FOR NEW BRIDGES AND BRIDGE WIDENING WITH A CONTINGENCY
TOTAL COST PER MILE	\$ 31,691,775	
TOTAL COST	\$ 4,753,766,312	150 MILES

I-40 PRELIMINARY CROSSOVER COST ESTIMATE		
TOTAL CROSSOVER COST	\$ 5,725,575	61 TOTAL CROSSOVERS

COST ESTIMATE ASSUMPTIONS

GENERAL

1. PAVEMENT WIDENING INCLUDES 12' LANE AND 12' SHOULDER.
2. OVERPASSES WILL BE RECONSTRUCTED WHERE PIERS/ABUTMENTS DON'T PROVIDE ROOM FOR WIDENING.
3. CBC UNDERPASSES WILL BE REPLACED WITH NEW BRIDGES.
4. CONSTRUCTION COSTS ARE BASED ON NMDOT'S JANUARY 2022 TO DECEMBER 2022 AVERAGE UNIT BID PRICES.
5. COSTS DO NOT INCLUDE NEW MEXICO GROSS RECEIPTS TAX, PROJECT DEVELOPMENT, RIGHT-OF-WAY, OR RAMP EXTENSIONS.

DETAILED

1. ASPHALT PAVEMENT SECTION: 9" HMA, 6" BASE COURSE
2. REHABILITATION PAVEMENT SECTION: 3" COLD MILLING (ASPHALT), 3" HMA
3. ANY CONCRETE PAVEMENT WITHIN THE PROJECT LIMITS WILL BE REMOVED AND REPLACED WITH ASPHALT PAVEMENT.
4. THE PAVEMENT RECONSTRUCTION AND REHABILITATION AREAS WERE BASED ON THE GEOTECH REPORT FROM TERRACON.
5. MAJOR CBC'S (CBC SPANS >9') EXTENDED. ASSUMED (4)-14' X 10'.
6. MINOR CBC'S (CBC SPANS <9') EXTENDED. ASSUMED (2)-10' X 10'.

I-40 3-LANE COST ESTIMATE
AZ STATE LINE TO ALBUQUERQUE

SEPARATED ROADWAY COST ESTIMATE SUMMARY

I-40 3-LANE FULL RECONSTRUCTION		
CATEGORY	ESTIMATED COST	REMARKS
PAVING (FULL RECONSTRUCTION)	\$ 5,403,240	FULL RECONSTRUCTION COST/77 MILES
BARRIERS	\$ 1,610,400	CWB FOR 1 MILE
REMOVALS	\$ 375,627	REMOVAL OF SURFACING OF ROADWAY/77 MILES
CBC UPSIZE+EXTENSIONS	\$ 535,474	MAJOR AND MINOR CBC'S/150 MILES
PIPE UPSIZE+EXTENSIONS	\$ 129,299	CULVERT PIPE EXTENSIONS/150 MILES
MEDIAN DROP INLETS	\$ 20,183	MEDIAN DROP INLETS/150 MILES
STRIPING	\$ 18,996	STRIPING FOR I-40 (3 COATS)/150 MILES
RUMBLE STRIPS	\$ 6,966	RUMBLE STRIPS ALONG SHOULDERS/150 MILES
SUBTOTAL A	\$ 8,100,185	COST PER MILE
REMAINING ITEMS	\$ 4,050,092	50%
SUBTOTAL B	\$ 12,150,277	
PERCENTAGE ITEMS (ITEMS BELOW ARE PERCENTAGES OF SUBTOTAL B)		
TRAFFIC CONTROL DEVICES	\$ 2,430,055	20%
DETOUR PAVEMENT AND TCWB	\$ 3,037,569	25%
CLEARING & GRUBBING	\$ 121,503	1%
MOBILIZATION	\$ 1,215,028	10%
CONSTRUCTION STAKING	\$ 364,508	3%
COST ESCALATION	\$ 729,017	6%
AUGMENTATION	\$ 972,022	8%
SUBTOTAL C	\$ 8,869,702	
PROJECT SUBTOTAL	\$ 21,019,979	SUBTOTAL B + SUBTOTAL C
CONTINGENCY	\$ 4,203,996	20%
FULL RECON + SHOULDER WIDENING COST PER MILE	\$ 25,223,975	DOES NOT INCLUDE R/W, PROJECT DEVELOPMENT (DESIGN/ENVIRONMENTAL/TRIBAL), E&C AND NMGR

FULL RECON + SHOULDER WIDENING COST \$ 1,942,246,073 FOR 77 MILES
MILL & INLAY + WIDENING COST \$ 1,333,909,959 FOR 73 MILES
ROADWAY TOTAL \$ 3,276,156,032

ROADWAY COST PER MILE	\$ 21,841,040
------------------------------	----------------------

CATEGORY	ESTIMATED COST	REMARKS
WIDENING	\$ 231,068,944	IN MILL AND INLAY AREAS
FULL RECONSTRUCTION	\$ 416,049,486	FOR ENTIRE CORRIDOR (77 MILES)
MILL & INLAY	\$ 55,630,819	FOR ENTIRE CORRIDOR (73 MILES)

I-40 3-LANE MILL & INLAY + WIDENING		
CATEGORY	ESTIMATED COST	REMARKS
PAVING (MILL & INLAY + WIDENING)	\$ 3,927,394	WIDENING + MILL & INLAY COST/73 MILES
BARRIERS	\$ 1,610,400	CWB FOR 1 MILE
REMOVALS	\$ 87,747	REMOVAL OF SURFACING OF SHOULDERS/73MILES
CBC UPSIZE+EXTENSIONS	\$ 535,474	MAJOR AND MINOR CBC'S/150 MILES
PIPE UPSIZE+EXTENSIONS	\$ 129,299	CULVERT PIPE EXTENSIONS/150 MILES
MEDIAN DROP INLETS	\$ 20,183	MEDIAN DROP INLETS/150 MILES
STRIPING	\$ 18,996	STRIPING FOR I-40 (3 COATS)/150 MILES
RUMBLE STRIPS	\$ 6,966	RUMBLE STRIPS ALONG SHOULDERS/150 MILES
SUBTOTAL A	\$ 6,336,459	COST PER MILE
REMAINING ITEMS	\$ 21,122	50%
SUBTOTAL B	\$ 6,357,580	
PERCENTAGE ITEMS (ITEMS BELOW ARE PERCENTAGES OF SUBTOTAL B)		
TRAFFIC CONTROL DEVICES	\$ 2,430,055	20%
DETOUR PAVEMENT AND TCWB	\$ 3,037,569	25%
CLEARING & GRUBBING	\$ 121,503	1%
MOBILIZATION	\$ 1,215,028	10%
CONSTRUCTION STAKING	\$ 364,508	3%
COST ESCALATION	\$ 729,017	6%
AUGMENTATION	\$ 972,022	8%
SUBTOTAL C	\$ 8,869,702	
PROJECT SUBTOTAL	\$ 15,227,283	SUBTOTAL B + SUBTOTAL C
CONTINGENCY	\$ 3,045,457	20%
MILL & INLAY + WIDENING COST PER MILE	\$ 18,272,739	DOES NOT INCLUDE R/W, PROJECT DEVELOPMENT (DESIGN/ENVIRONMENTAL/TRIBAL), E&C AND NMGR

I-40 3-LANE COST ESTIMATE
 AZ STATE LINE TO ALBUQUERQUE

BRIDGE COST ESTIMATE SUMMARY

I-40 3-LANE PRELIMINARY COST ESTIMATE		
CATEGORY	ESTIMATED COST	REMARKS
BRIDGE WIDENING	\$ 846,532,000	I-40 BRIDGES
NEW BRIDGES	\$ 384,809,900	OVERPASSES, INTERCHANGE MODIFICATIONS & UNDERPASSES
BRIDGE SUBTOTAL	\$ 1,231,341,900	
CONTINGENCY	\$ 246,268,380	20%
PROJECT TOTAL	\$ 1,477,610,280	
BRIDGE COST PER MILE	\$ 9,850,735	