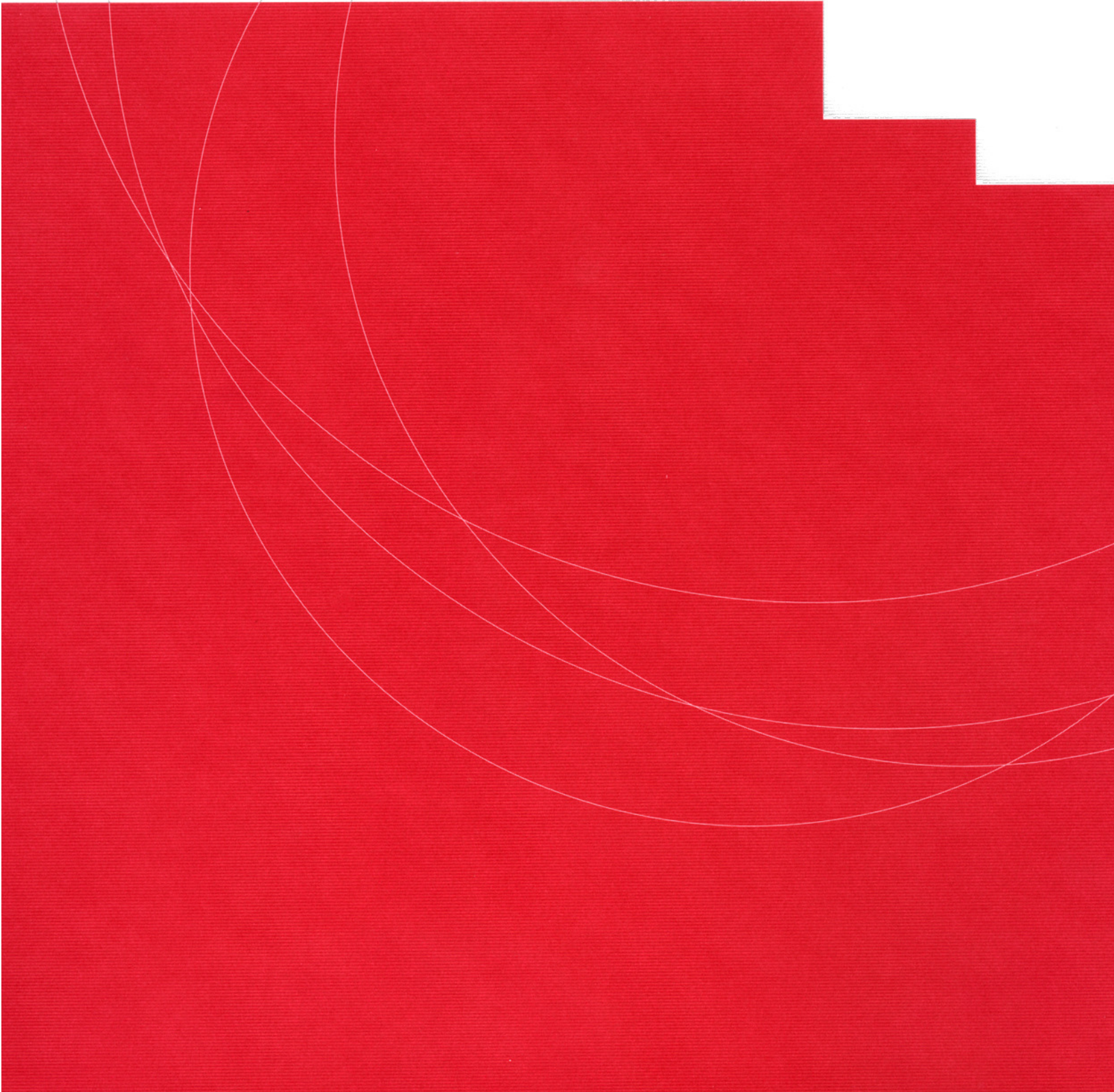
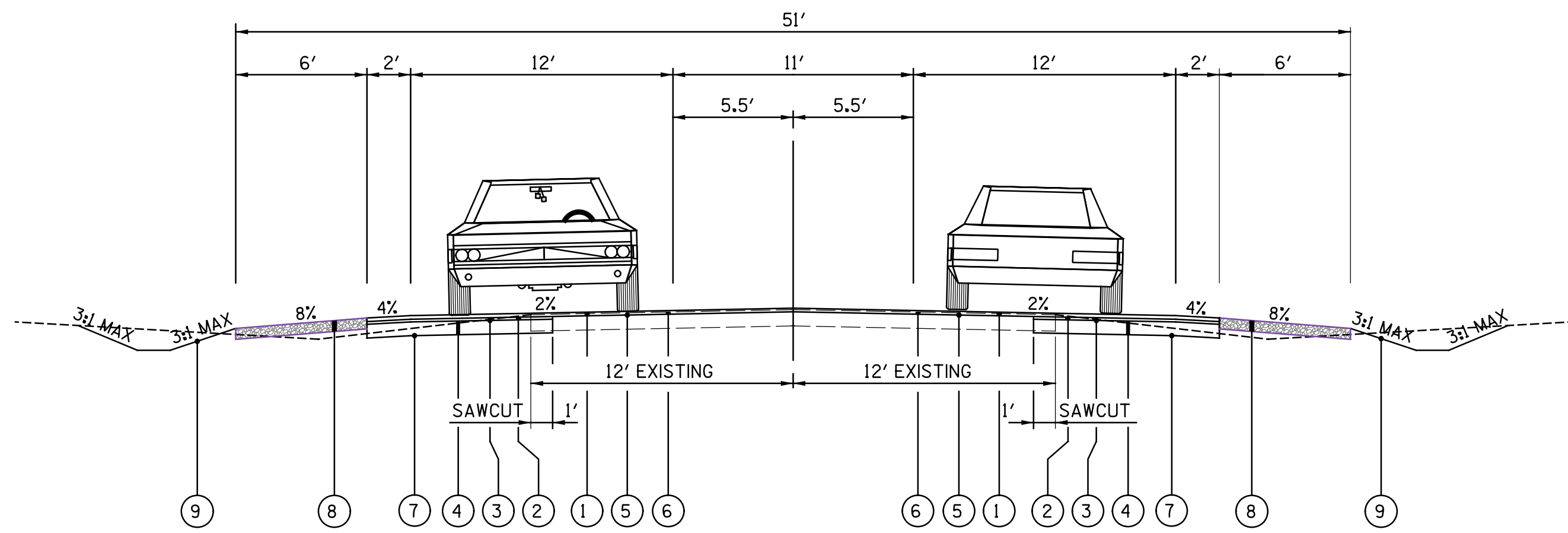
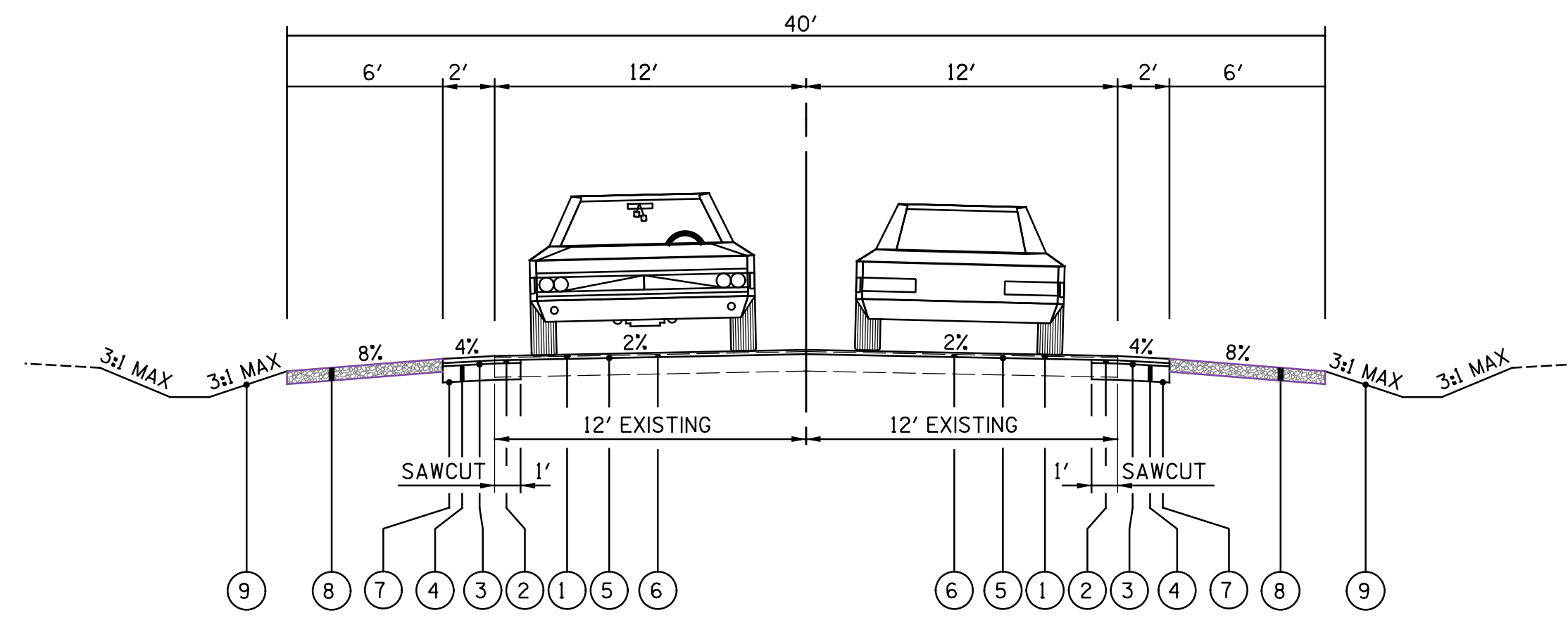


**Appendix H
Cost Estimates**

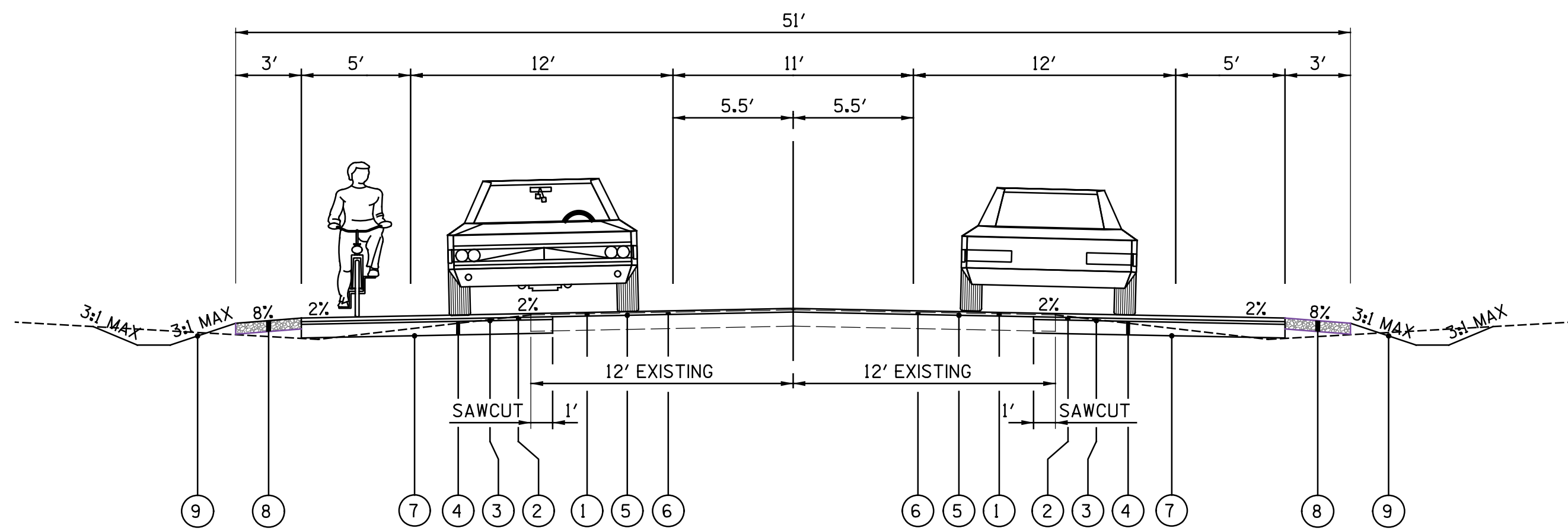




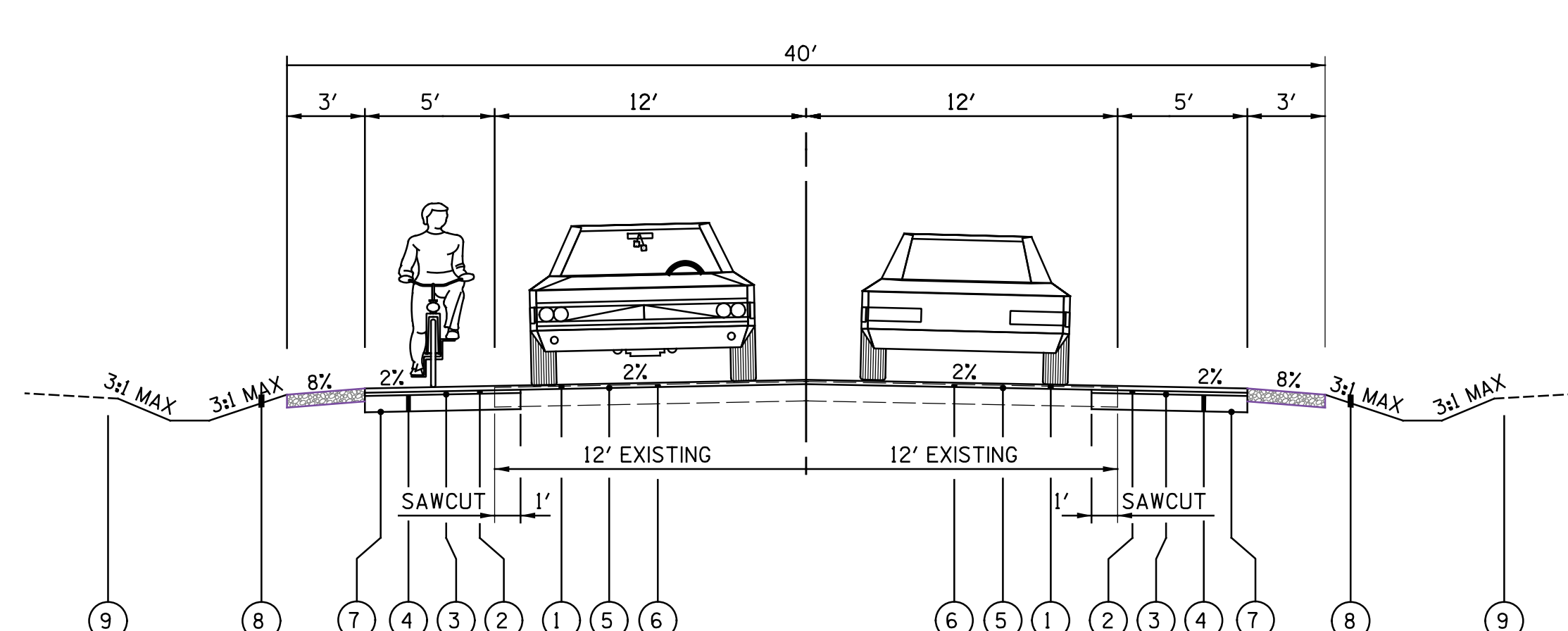
VILLA ROAD - OPTION A (DERR TO RED COACH)



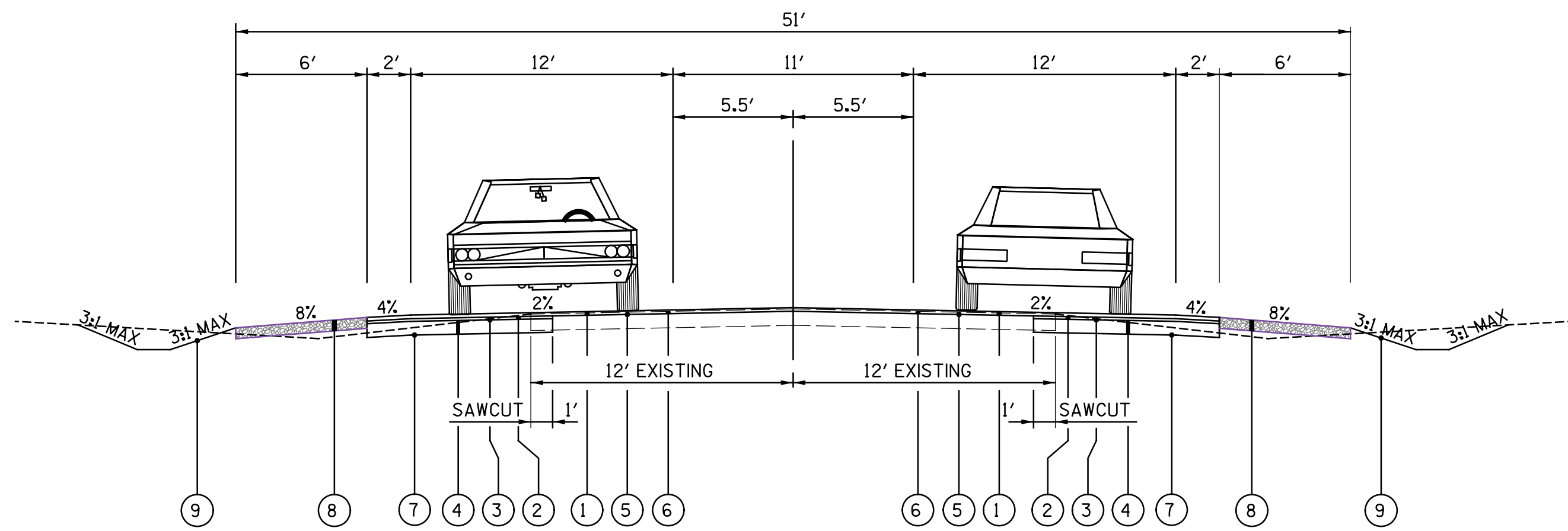
DERR ROAD - OPTION A (VILLA TO HUNT)



VILLA ROAD - OPTION B (DERR TO RED COACH)



DERR ROAD - OPTION B (VILLA TO HUNT)

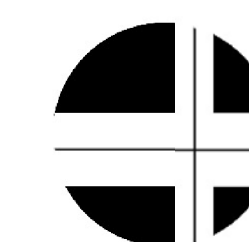


MIDDLE URBANA ROAD (VILLA TO SR-334)

PAVEMENT LEGEND

- ① ITEM 448 - 1 3/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22
- ② ITEM 448 - 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22
- ③ ITEM 408 - BITUMINOUS PRIME COAT (0.5 GAL/SQ YD)
- ④ ITEM 304 - 10" AGGREGATE BASE (PLACED IN 5" LIFTS)
- ⑤ ITEM 254 - 1 3/4" PAVEMENT PLANING, ASPHALT CONCRETE
- ⑥ ITEM 407 - TACK COAT (0.75 GAL/SQ YD)
- ⑦ ITEM 204 - SUBGRADE COMPACTION
- ⑧ ITEM 411 - 6" STABILIZED CRUSHED AGGREGATE
- ⑨ ITEM 659 - SEEDING AND MULCHING

> Northridge Sub-Area Study
Proposed Typical Sections



CLARK COUNTY-SPRINGFIELD
TRANSPORTATION COORDINATING COMMITTEE





NORTHRIDGE SUB-AREA STUDY
CITY OF SPRINGFIELD, CLARK COUNTY, OHIO
PRELIMINARY CONSTRUCTION ESTIMATE - JULY 27, 2011
DERR ROAD OPTION B
(2-LANES WITH 5' PAVED SHOULDERS)

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST
201	Clearing and Grubbing	1 LS	\$ 10,000.00	\$ 10,000.00
202	Pavement Removed	3510 SY	\$ 9.00	\$ 31,592.00
203	Excavation	14600 CY	\$ 10.00	\$ 146,000.00
203	Embankment	5500 CY	\$ 15.00	\$ 82,500.00
204	Subgrade Compaction	21857 SY	\$ 1.00	\$ 21,857.33
254	1 3/4" Milling	17110 SY	\$ 3.00	\$ 51,330.00
304	10" Aggregate Base	3369 CY	\$ 40.00	\$ 134,755.56
407	Tack Coat	2352 GAL	\$ 2.00	\$ 4,704.40
408	Prime Coat	5705 GAL	\$ 3.00	\$ 17,113.60
411	Stablized Crushed Aggregate	750	\$ 40.00	\$ 30,008.89
448	2" Asphalt Concrete Intermediate Course, Type 2, PG64-22	792 CY	\$ 160.00	\$ 126,767.41
448	1 3/4" Asphalt Concrete Surface Course, Type 1, PG64-22	1590 CY	\$ 175.00	\$ 278,305.09
452	6" Non-Reinforced Concrete Pavement	1300 SY	\$ 45.00	\$ 58,500.00
603	12" Conduit, Type C Drive culvert	1100 FT	\$ 40.00	\$ 44,000.00
603	18" Conduit, Type B Conting.	55 FT	\$ 65.00	\$ 3,575.00
610	Conspan culvert 25'x9' Inclds relocating HW	8 LF	\$ 6,000.00	\$ 48,000.00
630	Traffic Signal	1 LS	\$ 150,000.00	\$ 150,000.00
644	Edge Line	3.18 MI	\$ 2,400.00	\$ 7,640.00
644	Center Line	1.55 MI	\$ 3,200.00	\$ 4,970.00
644	Bike Lane Symbol Marking	40 EA	\$ 200.00	\$ 8,000.00
659	Topsoil	2251 CY	\$ 6.00	\$ 13,504.00
659	Seeding and Mulching	20256 SY	\$ 0.50	\$ 10,128.00
832	Storm Water Pollution Prevention Plan	1 LS	\$ 10,000.00	\$ 10,000.00
832	Erosion Control	18392 EA	\$ 1.00	\$ 18,392.00
Subtotal				\$ 1,312,000.00
614	Maintaining Traffic	1 LS	\$ 50,000.00	\$ 50,000.00
619	Field Office, Type B	6 MN	\$ 1,500.00	\$ 9,000.00
623	Construction Layout Stakes	1 LS	\$ 18,000.00	\$ 18,000.00
624	Mobilization	1 LS	\$ 40,000.00	\$ 40,000.00
Subtotal				\$ 1,429,000.00
Design Risk (25%)				\$ 358,000.00
Subtotal				\$ 1,787,000.00
Inflation Cost (23.1%)				\$ 413,000.00
Total				\$ 2,200,000.00
Contingency:				
Total w/ Contingency				\$ 2,200,000.00
				\$ 517,500.00
Notes:				
1 Right of way is not included.				
2 Conspan section is assumed to required for the west side of roadway at creek crossing.				
3 Earthwork is estimated by field visit and rough calculations.				
4 Excavation quantity assumes lowering road profile by six feet for 600 feet length.				
5 No utility lowering costs have been included; however, lowering of utilities may be required if road profile is lowered.				
6 No storm sewr included except driveway culverts since roadway is ditch section.				
7 The Derr/SR 334 segment does not include lighting.				



**NORTHRIDGE SUB-AREA STUDY
CITY OF SPRINGFIELD , CLARK COUNTY, OHIO
PRELIMINARY CONSTRUCTION ESTIMATE - JULY 18, 2011
VILLA ROAD OPTION B
(3 LANES WITH 5' PAVED SHOULDERS)**

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST
201	Clearing and Grubbing	1 LS	\$ 10,000.00	\$ 10,000.00
202	Pavement Removed	1860 SY	\$ 9.00	\$ 16,740.00
203	Excavation	10500 CY	\$ 10.00	\$ 105,000.00
203	Embankment	1000 CY	\$ 15.00	\$ 15,000.00
204	Subgrade Compaction	8559 SY	\$ 1.00	\$ 8,558.67
254	1 3/4" Milling	7653 SY	\$ 3.00	\$ 22,960.00
304	10" Aggregate Base	2377 CY	\$ 40.00	\$ 95,074.07
407	Tack Coat	1076 GAL	\$ 2.00	\$ 2,152.50
408	Prime Coat	3423 GAL	\$ 3.00	\$ 10,268.00
411	Stablized Crushed Aggregate	425 CY	\$ 40.00	\$ 17,007.41
448	2" Asphalt Concrete Intermediate Course, Type 2, PG64-22	475 CY	\$ 160.00	\$ 76,059.26
448	1 3/4" Asphalt Concrete Surface Course, Type 1, PG64-22	698 CY	\$ 175.00	\$ 122,074.65
452	6" Non-Reinforced Concrete Pavement	756 SY	\$ 45.00	\$ 34,020.00
603	12" Conduit, Type C	632 FT	\$ 40.00	\$ 25,280.00
603	15" Conduit, Type B	50 FT	\$ 55.00	\$ 2,750.00
604	Catch Basin, No. 3A	1 EA	\$ 2,000.00	\$ 2,000.00
604	Headwall	1 EA	\$ 2,000.00	\$ 2,000.00
601	Rock Channel Protection	4 CY	\$ 75.00	\$ 300.00
610	Cellular Retaining Wall, As Per Plan	800 SF	\$ 65.00	\$ 52,000.00
630	Traffic Signal - Villa and Red Coach	1 EA	\$ 150,000.00	\$ 150,000.00
644	Edge Line	1.09 MI	\$ 2,400.00	\$ 2,610.00
644	Center Line	0.54 MI	\$ 3,200.00	\$ 1,740.00
644	Bike Lane Symbol Marking	12 EA	\$ 200.00	\$ 2,400.00
659	Topsoil	750 CY	\$ 6.00	\$ 4,500.00
659	Seeding and Mulching	7016 SY	\$ 0.50	\$ 3,508.00
832	Storm Water Pollution Prevention Plan	1 LS	\$ 10,000.00	\$ 10,000.00
832	Erosion Control	5740 EA	\$ 1.00	\$ 5,740.00
Subtotal				\$ 800,000.00
614	Maintaining Traffic	1 LS	\$ 25,000.00	\$ 25,000.00
619	Field Office, Type B	6 MN	\$ 1,500.00	\$ 9,000.00
623	Construction Layout Stakes	1 LS	\$ 7,500.00	\$ 7,500.00
624	Mobilization	1 LS	\$ 20,000.00	\$ 20,000.00
Subtotal				\$ 861,500.00
Design Risk (25%)				\$ 216,000.00
Subtotal				\$ 1,077,500.00
Inflation Cost (23.1%)				\$ 249,000.00
Total				\$ 1,326,500.00
Contingency:				
Total w/ Contingency				\$ 1,326,500.00
Notes:				
1 Right of way is not included.				
2 Retaining wall contingency assumes small modular block walls.				
3 Earthwork is estimated by field visit and rough calculations.				
4 Excavation quantity assumes lowering road profile by six feet for 500 feet length.				
5 No utility lowering costs have been included, however, lowering of utilities may be required if road profile is lowered.				
6 No storm sewer included except driveway culverts since roadway is ditch section.				



**NORTHRIDGE SUB-AREA STUDY
CITY OF SPRINGFIELD , CLARK COUNTY, OHIO
PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST 08, 2011
MIDDLE URBANA WIDENING EMMANUEL TO VILLA OPTION**

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST
201	Clearing and Grubbing	1 LS	\$ 10,000.00	\$ 10,000.00
202	Pavement Removed	367 SY	\$ 9.00	\$ 3,300.00
203	Excavation	2500 CY	\$ 10.00	\$ 25,000.00
203	Embankment	1000 CY	\$ 15.00	\$ 15,000.00
204	Subgrade Compaction	3667 SY	\$ 1.00	\$ 3,666.67
254	1 3/4" Milling	4033 SY	\$ 3.00	\$ 12,100.00
304	10" Aggregate Base	866 CY	\$ 40.00	\$ 34,629.63
407	Tack Coat	536 GAL	\$ 2.00	\$ 1,072.50
408	Prime Coat	1247 GAL	\$ 3.00	\$ 3,740.00
411	Stabilzed Crushed Aggregate	489 CY	\$ 40.00	\$ 19,555.56
448	2" Asphalt Concrete Intermediate Course, Type 2, PG64-22	173 CY	\$ 160.00	\$ 27,703.70
448	1 3/4" Asphalt Concrete Surface Course, Type 1, PG64-22	348 CY	\$ 175.00	\$ 60,824.65
452	6" Non-Reinforced Concrete Pavement	350 SY	\$ 45.00	\$ 15,750.00
603	12" Conduit, Type C Drive culvert	200 FT	\$ 40.00	\$ 8,000.00
644	Edge Line	0.63 MI	\$ 2,400.00	\$ 1,500.00
644	Center Line	0.31 MI	\$ 3,200.00	\$ 1,000.00
659	Topsoil	489 CY	\$ 6.00	\$ 2,933.33
659	Seeding and Mulching	4400 SY	\$ 0.50	\$ 2,200.00
832	Storm Water Pollution Prevention Plan	1 LS	\$ 10,000.00	\$ 10,000.00
832	Erosion Control	3300 EA	\$ 1.00	\$ 3,300.00
Subtotal				\$ 262,000.00
614	Maintaining Traffic	1 LS	\$ 15,000.00	\$ 15,000.00
619	Field Office, Type B	3 MN	\$ 1,500.00	\$ 4,500.00
623	Construction Layout Stakes	1 LS	\$ 7,500.00	\$ 7,500.00
624	Mobilization	1 LS	\$ 25,000.00	\$ 25,000.00
Subtotal				\$ 314,000.00
Design Risk (25%)				\$ 79,000.00
Subtotal				\$ 393,000.00
Inflation Cost (23.1%)				\$ 91,000.00
Total				\$ 484,000.00

Notes:

- 1 Right-of-way is not included
- 2 No drainage system required since project is ditch section
- 3 Earthwork is estimated per field visit
- 4 No profile adjustment required
- 5 No utility lowering costs have been included



**NORTHBRIDGE SUB-AREA STUDY
CITY OF SPRINGFIELD , CLARK COUNTY, OHIO
PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST 08, 2011
MIDDLE URBANA WIDENING EMMANUEL TO SR 334 OPTION
(TIE INTO EX. 3-LANE SECTION 365' SOUTH OF S.R. 334)**

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST
201	Clearing and Grubbing	1 LS	\$ 10,000.00	\$ 10,000.00
202	Pavement Removed	500 SY	\$ 9.00	\$ 4,500.00
203	Excavation	2500 CY	\$ 10.00	\$ 25,000.00
203	Embankment	1000 CY	\$ 15.00	\$ 15,000.00
204	Subgrade Compaction	5000 SY	\$ 1.00	\$ 5,000.00
254	1 3/4" Milling	5500 SY	\$ 3.00	\$ 16,500.00
304	10" Aggregate Base	1181 CY	\$ 40.00	\$ 47,222.22
407	Tack Coat	731 GAL	\$ 2.00	\$ 1,462.50
408	Prime Coat	1700 GAL	\$ 3.00	\$ 5,100.00
411	Stabilzed Crushed Aggregate	667 CY	\$ 40.00	\$ 26,666.67
448	2" Asphalt Concrete Intermediate Course, Type 2, PG64-22	236 CY	\$ 160.00	\$ 37,777.78
448	1 3/4" Asphalt Concrete Surface Course, Type 1, PG64-22	474 CY	\$ 175.00	\$ 82,942.71
452	6" Non-Reinforced Concrete Pavement	240 SY	\$ 45.00	\$ 10,800.00
603	12" Conduit, Type C Drive culvert	110 FT	\$ 40.00	\$ 4,400.00
644	Edge Line	0.85 MI	\$ 2,400.00	\$ 2,050.00
644	Center Line	0.43 MI	\$ 3,200.00	\$ 1,370.00
659	Topsoil	667 CY	\$ 6.00	\$ 4,000.00
659	Seeding and Mulching	6000 SY	\$ 0.50	\$ 3,000.00
832	Storm Water Pollution Prevention Plan	1 LS	\$ 10,000.00	\$ 10,000.00
832	Erosion Control	2900 EA	\$ 1.00	\$ 2,900.00
Subtotal				\$ 316,000.00
614	Maintaining Traffic	1 LS	\$ 20,250.00	\$ 20,250.00
619	Field Office, Type B	4 MN	\$ 1,500.00	\$ 6,000.00
623	Construction Layout Stakes	1 LS	\$ 10,125.00	\$ 10,125.00
624	Mobilization	1 LS	\$ 33,750.00	\$ 33,750.00
Subtotal				\$ 386,125.00
Design Risk (25%)				\$ 97,000.00
Subtotal				\$ 483,125.00
Inflation Cost (23.1%)				\$ 112,000.00
Total				\$ 595,125.00

Notes:

- 1 Right-of-way is not included
- 2 No drainage system required since project is ditch section
- 3 Earthwork is estimated per field visit
- 4 No profile adjustment required
- 5 No utility lowering costs have been included



**NORTHRIDGE SUB-AREA STUDY
CITY OF SPRINGFIELD, CLARK COUNTY, OHIO
PRELIMINARY CONSTRUCTION ESTIMATE - JULY 18, 2011
MIDDLE URBANA AT KINGSGATE WIDENING
NB AND SB LEFT TURN LANES**

ITEM	DESCRIPTION	QUANTITY		UNIT COST	TOTAL COST
201	Clearing and Grubbing	1	LS	\$ 10,000.00	\$ 10,000.00
202	Pavement Removed	200	SY	\$ 9.00	\$ 1,800.00
203	Excavation	1465	CY	\$ 10.00	\$ 14,650.00
203	Embankment	500	CY	\$ 15.00	\$ 7,500.00
204	Subgrade Compaction	1582	SY	\$ 1.00	\$ 1,581.94
254	1 3/4" Milling	1600	SY	\$ 3.00	\$ 4,800.00
304	10" Aggregate Base	334	CY	\$ 40.00	\$ 13,379.63
407	Tack Coat	62	GAL	\$ 2.00	\$ 123.96
408	Prime Coat	331	GAL	\$ 3.00	\$ 991.67
448	2" Asphalt Concrete Intermediate Course, Type 2, PG64-22	67	CY	\$ 160.00	\$ 10,703.70
448	1 3/4" Asphalt Concrete Surface Course, Type 1, PG64-22	59	CY	\$ 175.00	\$ 10,243.78
452	6" Non-Reinforced Concrete Pavement	170	SY	\$ 45.00	\$ 7,650.00
603	12" Conduit, Type C Drive culvert	100	FT	\$ 40.00	\$ 4,000.00
644	Edge Line	0.34	MI	\$ 2,400.00	\$ 820.00
644	Center Line	0.17	MI	\$ 3,200.00	\$ 550.00
659	Topsoil	267	CY	\$ 6.00	\$ 1,600.00
659	Seeding and Mulching	2400	SY	\$ 0.50	\$ 1,200.00
832	Storm Water Pollution Prevention Plan	1	LS	\$ 10,000.00	\$ 10,000.00
832	Erosion Control	1800	EA	\$ 1.00	\$ 1,800.00
Subtotal					\$ 104,000.00
614	Maintaining Traffic	1	LS	\$ 5,000.00	\$ 5,000.00
619	Field Office, Type B	3	MN	\$ 1,500.00	\$ 4,500.00
623	Construction Layout Stakes	1	LS	\$ 6,000.00	\$ 6,000.00
624	Mobilization	1	LS	\$ 15,000.00	\$ 15,000.00
Subtotal					\$ 134,500.00
Design Risk (25%)					\$ 34,000.00
Subtotal					\$ 168,500.00
Inflation Cost (23.1%)					\$ 39,000.00
Total					\$ 207,500.00
Contingency:					
None					
Total w/ Contingency					\$ 207,500.00
Notes:					
1 Right-of-way is not included					
2 No drainage system required since project is ditch section					
3 Earthwork is estimated per field visit					
4 No profile adjustment required					
5 No utility lowering costs have been included					