

Appendix C

- *Unit Prices*
- *Cost Estimates*

Unit Prices

UNIT	UNIT PRICE
NOISEWALL	\$500/LF - \$50/SF
FULL DEPTH PAVEMENT (ASPHALT) (10" BASE, 2" INTERMEDIATE, 1.5" SURFACE)	\$100/SY
FULL DEPTH PAVEMENT (CONCRETE) (12" FULL-DEPTH)	\$150/SY
MSE WALL	\$100/SF
NEW BRIDGE/BRIDGE WIDENING	\$750/SF
NEW 4 LANE FREEWAY	\$10M/Mile
NEW 1 LANE RAMP	\$5M/Mile
NEW 2 LANE ARTERIAL ROADWAY	\$4M/Mile
NEW 2 LANE COLLECTOR ROADWAY	\$3.3M/Mile
EXISTING 2 LANE ROAD WIDENED TO 3 LANE ROAD	\$3.3M/Mile
EXISTING 2 LANE ROAD WIDENED TO 4 LANE ROAD	\$5.3M/Mile
EXISTING 2 LANE ROAD WIDENED TO 5 LANE ROAD	\$6M/Mile
ADD INTERSTATE LANE W/MEDIAN BARRIER	\$8M/Mile
RECONSTRUCT A LANE	\$2.2M/Mile
2' SHOULDER WIDENING	\$115,000/Mile
4' SHOULDER WIDENING	\$160,000/Mile
ADD INTERSECTION SIGNAL	\$300,000/Intersection
ADD SIGNAL WITH RADIUS IMPROVEMENTS	450,000/Intersection
ADD SIGNAL WITH ADDED CAPACITY IMPROVEMENTS	\$1.8M/Intersection
ROUNDBOUT	\$2M/Major Movement Lane
DIAMOND INTERCHANGE ADDED TO EXISTING INTERSTATE	\$15M/Each

Alternative Cost Estimates

Location	Alternative ID(s)	Note	Total Cost
I-71 NB to I-271 NB	1	55 mph	\$4,060,000
	2	65 mph	\$11,348,000
I-71 SB to I-271 NB	3	55 mph	\$54,564,000
I-271 SB to I-71 NB	4	55 mph	\$6,836,000
	5	65 mph	\$9,192,000
I-271 SB to I-71 SB	6	55 mph	\$11,615,000
	7	65 mph	\$23,107,000

I-71 NB to I-271 NB Ramp, 55 mph (Alternative #1)

COST ESTIMATE FOR ALTERNATIVE #1

Item	Unit	Unit Cost	Assumed Qty.	Total
New Ramp	mi	\$8,000,000	0.284	\$2,274,000
Noisewall	ft	\$500	0	\$0
Totals				\$2,274,000
Contingency (50%)				\$1,137,000
Engineering (25%)				\$569,000
Estimated R/W				\$80,000
Grand Total (2024 dollars)				\$4,060,000

R/W ESTIMATED COST DETERMINATION

Partial Takes

2 Empty lots	
Sum of area taken (acres) ¹	0.55
Estimated cost per acre ²	\$146,300
Estimated Total R/W Costs	\$80,000

¹ Area is determined via MicroStation and using the estimated R/W limits seen in the exhibits.

² The unit land cost in the improvement area is based on Medina County Auditor records and adjusted for the assumed highest and best use cost of the land and then multiplying by a factor of 2 for cost estimation purposes.

I-71 NB to I-271 NB Ramp, 65 mph (Alternative #2)

COST ESTIMATE FOR ALTERNATIVE #2

Item	Unit	Unit Cost	Assumed Qty.	Total
New Ramp	mi	\$8,000,000	0.636	\$5,091,000
Noisewall	ft	\$500	897	\$449,000
Totals				\$5,540,000
Contingency (50%)				\$2,770,000
Engineering (25%)				\$1,385,000
Estimated R/W				\$1,653,000
Grand Total (2024 dollars)				\$11,348,000

R/W ESTIMATED COST DETERMINATION

Partial Takes

2529 Twelve Oaks Cir		
2551 Twelve Oaks Cir		
2575 Twelve Oaks Cir		
2583 Twelve Oaks Cir		
1 Empty lot		
Sum of area taken (acres) ¹		7.78
Estimated cost per acre ²		\$146,300
Land cost for all partial takes		\$1,138,000

¹ Area is determined via MicroStation and using the estimated R/W limits seen in the exhibits.

² The unit land cost in the improvement area is based on Medina County Auditor records and adjusted for the assumed highest and best use cost of the land and then multiplying by a factor of 2 for cost estimation purposes.

Total Takes

	Acres	Building value
Empty lot	3.52	-
Sum of area taken (acres)		3.52
Estimated cost per acre ²		\$146,300
Land cost for all total takes		\$515,000

Partial take land costs + Total take land costs + Total take building/relocation costs	Estimated Total R/W Cost \$1,653,000
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I-71 SB to I-271 NB Ramp, 55 mph (Alternative #3)

COST ESTIMATE FOR ALTERNATIVE #3

Item	Unit	Unit Cost	Assumed Qty.	Total
Full-depth Asphalt Pavement	SY	\$100	34027	\$3,403,000
Noisewall	ft	\$500	4133	\$2,067,000
MSE wall	SF	\$100	19621	\$1,962,000
Bridge	SF	\$750	15334	\$11,501,000
Earth Fill	CY	\$35	227381	\$7,958,000
Totals				\$26,891,000
Contingency (50%)				\$13,446,000
Engineering (25%)				\$6,723,000
Estimated R/W				\$7,504,000
Grand Total (2024 dollars)				\$54,564,000

R/W ESTIMATED COST DETERMINATION

Partial Takes

2463, 2485, 2507, 2529, 2551, 2575, & 2583 Twelve Oaks Cir 4233 & 4011 Nichols Rd 2780 Wilbur Rd 2 Empty lots	
Sum of area taken (acres) ¹	19.83
Estimated cost per acre ²	\$146,300
Land cost for all partial takes	\$2,902,000

¹ Area is determined via MicroStation and using the estimated R/W limits seen in the exhibits.

² The unit land cost in the improvement area is based on Medina County Auditor records and adjusted for the assumed highest and best use cost of the land and then multiplying by a factor of 2 for cost estimation purposes.

Total Takes

	Acres	Building value ³
4115 Nichols Rd	2.75	\$286,760
3 Empty lots	9.10	-
4161 Nichols Rd	1.92	\$236,080
4171 Nichols Rd	1.60	\$224,460
4185 Nichols Rd	1.40	\$235,360
4201 Nichols Rd	1.62	\$291,060

³ Building values for total take properties are derived from Medina County Auditor records and multiplied by 2 for cost estimating purposes.

Sum of area taken (acres)	18.39
Estimated cost per acre ²	\$146,300
Land cost for all total takes	\$2,691,000

Sum of building values	\$1,273,720
Relocation compensation (50%)	\$636,860
Building cost for all total takes	\$1,911,000

Partial take land costs + Total take land costs + Total take building/relocation costs	Estimated Total R/W Cost \$7,504,000
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I-271 SB to I-71 NB Ramp, 55 mph (Alternative #4)

COST ESTIMATE FOR ALTERNATIVE #4

Item	Unit	Unit Cost	Assumed Qty.	Total
Full-depth Asphalt Pavement	SY	\$100	7782	\$778,000
Noisewall	ft	\$500	2281	\$1,141,000
Earth Fill	CY	\$35	45857	\$1,605,000
Totals				\$3,524,000
Contingency (50%)				\$1,762,000
Engineering (25%)				\$881,000
Estimated R/W				\$669,000
Grand Total (2024 dollars)				\$6,836,000

R/W ESTIMATED COST DETERMINATION

Partial Takes

2646 McCarren Dr	
2664 McCarren Dr	
2682 McCarren Dr	
2696 McCarren Dr	
Sum of area taken (acres) ¹	4.57
Estimated cost per acre ²	\$146,300
Estimated Total R/W Costs	\$669,000

¹ Area is determined via MicroStation and using the estimated R/W limits seen in the exhibits.

² The unit land cost in the improvement area is based on Medina County Auditor records and adjusted for the assumed highest and best use cost of the land and then multiplying by a factor of 2 for cost estimation purposes.

I-271 SB to I-71 NB Ramp, 65 mph (Alternative #5)

COST ESTIMATE FOR ALTERNATIVE #5

Item	Unit	Unit Cost	Assumed Qty.	Total
Full-depth Asphalt Pavement	SY	\$100	11036	\$1,104,000
Noisewall	ft	\$500	3177	\$1,589,000
Earth Fill	CY	\$35	42535	\$1,489,000
Totals				\$4,182,000
Contingency (50%)				\$2,091,000
Engineering (25%)				\$1,046,000
Estimated R/W				\$1,873,000
Grand Total (2024 dollars)				\$9,192,000

R/W ESTIMATED COST DETERMINATION

Partial Takes

2574 McCarren Dr	
2592 McCarren Dr	
2610 McCarren Dr	
2628 McCarren Dr	
2646 McCarren Dr	
2664 McCarren Dr	
2682 McCarren Dr	
2696 McCarren Dr	
2700 Wilbur Rd	
Sum of area taken (acres) ¹	12.80
Estimated cost per acre ²	\$146,300
Estimated Total R/W Costs	\$1,873,000

¹ Area is determined via MicroStation and using the estimated R/W limits seen in the exhibits.

² The unit land cost in the improvement area is based on Medina County Auditor records and adjusted for the assumed highest and best use cost of the land and then multiplying by a factor of 2 for cost estimation purposes.

I-271 SB to I-71 SB Ramp, 55 mph (Alternative #6)

COST ESTIMATE FOR ALTERNATIVE #6

Item	Unit	Unit Cost	Assumed Qty.	Total
New Ramp	mi	\$8,000,000	0.664	\$5,309,000
Noisewall	ft	\$500	1301	\$651,000
Totals				\$5,960,000
Contingency (50%)				\$1,490,000
Engineering (25%)				\$1,490,000
Estimated R/W				\$2,675,000
Grand Total (2024 dollars)				\$11,615,000

R/W ESTIMATED COST DETERMINATION

Partial Takes

2646 McCarren Dr		
2664 McCarren Dr		
4201 Nichols Rd		
4321 Nichols Rd		
Sum of area taken (acres) ¹		0.90
Estimated cost per acre ²		\$146,300
Land cost for all partial takes		\$132,000

¹ Area is determined via MicroStation and using the estimated R/W limits seen in the exhibits.

² The unit land cost in the improvement area is based on Medina County Auditor records and adjusted for the assumed highest and best use cost of the land and then multiplying by a factor of 2 for cost estimation purposes.

Total Takes

	Acres	Building value ³
4233 Nichols Rd	2.02	\$270,500
4267 Nichols Rd	2.20	\$407,060
4297 Nichols Rd	2.20	\$391,800

³ Building values for total take properties are derived from Medina County Auditor records and multiplied by 2 for cost estimating purposes.

Sum of area taken (acres)		6.42
Estimated cost per acre ²		\$146,300
Land cost for all total takes		\$939,000
Sum of building values		\$1,069,360
Relocation compensation (50%)		\$534,680
Building cost for all total takes		\$1,604,000

Partial take land costs + Total take land costs + Total take building/relocation costs	Estimated Total R/W Cost \$2,675,000
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I-271 SB to I-71 SB Ramp, 65 mph (Alternative #7)

COST ESTIMATE FOR ALTERNATIVE #7

Item	Unit	Unit Cost	Assumed Qty.	Total
New Ramp	mi	\$8,000,000	1.045	\$8,359,000
Noisewall	ft	\$500	2725	\$1,363,000
Totals				\$9,722,000
Contingency (50%)				\$4,861,000
Engineering (25%)				\$2,431,000
Estimated R/W				\$6,093,000
Grand Total (2024 dollars)				\$23,107,000

R/W ESTIMATED COST DETERMINATION

Partial Takes

2574, 2572, 2610, 2628, 2646, & 2664 McCarren Dr	
4171, 4185, 4192, 4214, & 4316 Nichols Rd	
2840 Granger Rd	
2 Empty lots	
Sum of area taken (acres) ¹	14.91
Estimated cost per acre ²	\$146,300
Land cost for all partial takes	\$2,182,000

¹ Area is determined via MicroStation and using the estimated R/W limits seen in the exhibits.

² The unit land cost in the improvement area is based on Medina County Auditor records and adjusted for the assumed highest and best use cost of the land and then multiplying by a factor of 2 for cost estimation purposes.

Total Takes

	Acres	Building value ³
4201 Nichols Rd	1.62	\$145,530
4233 Nichols Rd	2.02	\$270,500
4267 Nichols Rd	2.20	\$407,060
4297 Nichols Rd	2.20	\$391,800
4321 Nichols Rd	2.76	\$339,100

³ Building values for total take properties are derived from Medina County Auditor records and multiplied by 2 for cost estimating purposes.

Sum of area taken (acres)	10.80
Estimated cost per acre ²	\$146,300
Land cost for all total takes	\$1,580,000

Sum of building values	\$1,553,990
Relocation compensation (50%)	\$776,995
Building cost for all total takes	\$2,331,000

Partial take land costs + Total take land costs + Total take building/relocation costs	Estimated Total R/W Cost \$6,093,000
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MED IR71 IR 271 STUDY

Location ID(s)	Alternative ID(s)	Note	Total Cost
10	A	<i>Lengthen turn lanes and re-time signals</i>	\$167,000
	B-1, B-2, B-2a, C	<i>Roundabout</i>	\$4,378,000
SR-94	Lane Widening	<i>SR-94 Width Improvements</i>	\$2,216,000
250	Medium-term	<i>Left turn lane on SR 94 NB</i>	\$692,000
240-250	A	<i>Roundabout at 250 and turning lanes at 240</i>	\$3,724,000
	B-1	<i>Double (dogbone) roundabouts</i>	\$5,066,000
	B-2	<i>Oval roundabout</i>	\$5,905,000
	B-2a	<i>Peanut roundabout</i>	\$4,668,000
	C	<i>Cul-de-sac at 250 and roundabout at 240</i>	\$3,514,000
230	A, B-1, B-2, B-2a, C	<i>Roundabout</i>	\$3,000,000
220	C	<i>Roundabout</i>	\$4,640,000
-	C	<i>Road realignment and bridge over I-271</i>	\$11,307,000

← South | North →

Intersection #10, Alternative A

Lengthened turning lane and Signal phasing at SR 94 (Ridge Rd) & SR 3 (Ledge Rd)

PRELIMINARY COST ESTIMATE FOR TURNING LANE/SIGNAL PHASING

Item	Unit	Unit Cost	Assumed Qty.	Total
Signal phasing	-	-	-	\$60,000
Full-depth Asphalt Pavement ¹	SY	\$100	606	\$61,000
Totals				\$121,000
Contingency (50%)				\$31,000
Engineering (25%)				\$15,000
Estimated R/W				\$0
Grand Total (2024 dollars)				\$167,000

¹ Area of new pavement is confined to the lengthened turning lane; it does not include the SR 94 (Ridge Rd) repaving plan between SR 3 (Ledge Rd) and the Remsen Rd/I-271 intersections.

Intersection #10, Alternatives B-1, B-2, B-2a, C
 Roundabout at SR 94 (Ridge Rd) & SR 3 (Ledge Rd)

PRELIMINARY COST ESTIMATE FOR ROUNDABOUT

Item	Total
Estimated Total, excluding R/W ¹	\$4,361,000
Estimated R/W	\$17,000
Grand Total (2024 dollars)	\$4,378,000

¹ The cost was influenced by historical data, including roundabout analyses in two planning studies (HOL-62-24.75 and CLA-US 68-4.174) that had single-lane roundabout costs of \$2 million and \$2.5 million, respectively.

R/W ESTIMATED COST DETERMINATION

Partial Takes

2728 Ridge Rd	
1600 Ledge Rd	
Empty lot	
Sum of area taken (acres) ²	0.32
Estimated cost per acre ³	\$53,224
Estimated Total R/W Costs	\$17,000

² Area is determined via MicroStation and using the estimated R/W limits seen in the exhibits.

³ The unit land cost in the improvement area is based on Medina County Auditor records and adjusted for the assumed highest and best use cost of the land and then multiplying by a factor of 2 for cost estimation purposes.

SR-94 Width Improvements

PRELIMINARY COST ESTIMATE FOR PAVEMENT REPLACEMENT

Item	Unit	Unit Cost	Assumed Qty.	Total
Full-depth Asphalt Pavement ¹	SY	\$100	11202	\$1,120,000
Totals				\$1,120,000
Contingency (50%)				\$560,000
Engineering (25%)				\$280,000
Estimated R/W				\$256,000
Grand Total (2024 dollars)				\$2,216,000

R/W ESTIMATED COST DETERMINATION

Partial Takes

2895 Ridge Rd 1600 Ledge Rd	
Sum of area taken (acres) ²	1.67
Estimated cost per acre ³	\$153,056
Estimated Total R/W Costs	\$256,000

² Area is determined via MicroStation and using the estimated R/W limits seen in the exhibits.

³ The unit land cost in the improvement area is based on Medina County Auditor records and adjusted for the assumed highest and best use cost of the land and then multiplying by a factor of 2 for cost

Intersection #250, Medium-term Alternative
Left turning lane on SR 94 NB (Ridge Rd) at Remsen Rd

PRELIMINARY COST ESTIMATE FOR LEFT TURNING LANE

Item	Unit	Unit Cost	Assumed Qty.	Total
Full-depth Asphalt Pavement	SY	\$100	3955	\$395,000
Totals				\$395,000
Contingency (50%)				\$198,000
Engineering (25%)				\$99,000
Estimated R/W				\$0
Grand Total (2024 dollars)				\$692,000

Intersections #240-250, Alternative A

Roundabout at SR 94 (Ridge Rd) & Remsen Rd, Additional turning lanes on I-271 SB Ramp

PRELIMINARY COST ESTIMATE FOR TURN LANES AND ROUNDABOUT

Item	Unit	Unit Cost	Assumed Qty.	Total
Int. #240 - Full-depth Asphalt Pavement	SY	\$100	3723	\$372,000
Totals				\$372,000
Contingency (50%)				\$186,000
Engineering (25%)				\$93,000
Estimated R/W				\$73,000
Int. #250 - Roundabout	-			\$3,000,000
Grand Total (2024 dollars)				\$3,724,000

R/W ESTIMATED COST DETERMINATION

Partial Takes

2 Empty lots 2895 Ridge Rd 2985 Ridge Rd	
Sum of area taken (acres) ¹	0.45
Estimated cost per acre ²	\$161,956
Estimated Total R/W Costs	\$73,000

¹ Area is determined via MicroStation and using the estimated R/W limits seen in the exhibits.

² The unit land cost in the improvement area is based on Medina County Auditor records and adjusted for the assumed highest and best use cost of the land and then multiplying by a factor of 2 for cost estimation purposes.

Intersections #240-250, Alternative B-1

Double Roundabout at SR 94 (Ridge Rd) & Remsen Rd, I-271 SB Ramps

PRELIMINARY COST ESTIMATE FOR DOUBLE ROUNDABOUT

Item	Total
Estimated Total, excluding R/W ¹	\$5,000,000
Estimated R/W	\$66,000
Grand Total (2024 dollars)	\$5,066,000

¹ The cost was influenced historical data, including a recent double roundabout project in Fairfield County at US 22, SR 159, & Delmont Rd (PID: 10407) that had a total cost of \$4,500,000.

R/W ESTIMATED COST DETERMINATION

Partial Takes

2 Empty lots	
2895 Ridge Rd	
2985 Ridge Rd	
Sum of area taken (acres) ²	0.41
Estimated cost per acre ³	\$161,956
Estimated Total R/W Costs	\$66,000

² Area is determined via MicroStation and using the estimated R/W limits seen in the exhibits.

³ The unit land cost in the improvement area is based on Medina County Auditor records and adjusted for the assumed highest and best use cost of the land and then multiplying by a factor of 2 for cost estimation purposes.

Intersections #240-250, Alternative B-2
 Oval Roundabout at I-271 SB Ramps, SR 94, Remsen Rd

PRELIMINARY COST ESTIMATE FOR OVAL ROUNDABOUT

Item	Total
Estimated Total, excluding R/W ¹	\$5,000,000
Estimated R/W	\$905,000
Grand Total (2024 dollars)	\$5,905,000

¹ The costs were influenced historical data, including a recent peanut roundabout in Delaware County at SR 61 & 656 (PID 104623).

R/W ESTIMATED COST DETERMINATION

Partial Takes

2 Empty lots 2895 Ridge Rd 2985 Ridge Rd	
Sum of area taken (acres) ²	0.87
Estimated cost per acre ³	\$161,956
Land cost for all partial takes	\$141,000

² Area is determined via MicroStation and using the estimated R/W limits seen in the exhibits.

³ The unit land cost in the improvement area is based on Medina County Auditor records and adjusted for the assumed highest and best use cost of the land and then multiplying by a factor of 2 for cost estimation purposes.

Total Takes

	Acres	Building value ⁴
1635 Remsen Rd	3.12	\$172,440

⁴ Building values for total take properties are derived from Medina County Auditor records and multiplied by 2 for cost estimating purposes.

Sum of area taken (acres)	3.12
Estimated cost per acre ³	\$161,956
Land cost for all total takes	\$505,000

Sum of building values	\$172,440
Relocation compensation (50%)	\$86,220
Building cost for all total takes	\$259,000

Partial take land costs + Total take land costs + Total take building/relocation costs	Estimated Total R/W Cost \$905,000
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Intersections #240-250, Alternative B-2a
 Peanut Roundabout at I-271 SB Ramps, SR 94, Remsen Rd

PRELIMINARY COST ESTIMATE FOR PEANUT ROUNDABOUT

Item	Total
Estimated Total, excluding R/W ¹	\$4,500,000
Estimated R/W	\$168,000
Grand Total (2024 dollars)	\$4,668,000

¹ The costs were influenced by historical data, including a recent peanut roundabout in Delaware County at SR 61 & 656 (PID 104623).

R/W ESTIMATED COST DETERMINATION

Partial Takes	
2 Empty lots	
2895 Ridge Rd	
2985 Ridge Rd	
1635 Remsen Rd	
Sum of area taken (acres) ²	1.04
Estimated cost per acre ³	\$161,956
Estimated Total R/W Costs	\$168,000

² Area is determined via MicroStation and using the estimated R/W limits seen in the exhibits.

³ The unit land cost in the improvement area is based on Medina County Auditor records and adjusted for the assumed highest and best use cost of the land and then multiplying by a factor of 2 for cost estimation purposes.

Intersections #240-250, Alternative C

Cul-de-sac at Remsen Rd, Roundabout at SR 94 (Ridge Rd) & I-271 SB Ramps

PRELIMINARY COST ESTIMATE FOR CUL-DE-SAC AND ROUNDABOUT

Item	Unit	Unit Cost	Assumed Qty.	Total
Int. #250 - Full-depth Asphalt Pavement ¹	SY	\$100	6027	\$603,000
Totals				\$603,000
Contingency (50%)				\$302,000
Engineering (25%)				\$151,000
Estimated R/W				\$61,000
Int. #240 - Roundabout				\$3,000,000
Grand Total (2024 dollars)				\$3,514,000

R/W ESTIMATED COST DETERMINATION

Partial Takes

2 Empty lots 2895 Ridge Rd 2968 Ridge Rd 1635 Remsen Rd	
Sum of area taken (acres) ²	0.38
Estimated cost per acre ³	\$161,956
Estimated Total R/W Costs	\$61,000

¹ Area of new "asphalt pavement" is confined to the cul-de-sac at Int. #250; it does not include the greater SR 94 (Ridge Rd) repaving plan between SR 3 (Ledge Rd) and the Remsen Rd/I-271 intersections.

² Area is determined via MicroStation and using the estimated R/W limits seen in the exhibits.

³ The unit land cost in the improvement area is based on Medina County Auditor records and adjusted for the assumed highest and best use cost of the land and then multiplying by a factor of 2 for cost estimation purposes.

Intersection #230, Alternatives A, B-1, B-2, B-2a, C
Roundabout at SR 94 (Ridge Rd) & I-271 NB Ramps

PRELIMINARY COST ESTIMATE FOR ROUNDABOUT

Item	Total
Estimated Total, excluding R/W ¹	\$3,000,000
Estimated R/W	\$0
Grand Total (2024 dollars)	\$3,000,000

¹ The cost was influenced by historical data, including roundabout analyses in two planning studies (HOL-62-24.75 and CLA-US 68-4.174) that had roundabout costs of \$2 million and \$2.5 million, respectively.

Intersection #220, Alternative C
 Roundabout at SR 94 (Ridge Rd) & Remsen Rd/Melody Ln

PRELIMINARY COST ESTIMATE FOR ROUNDABOUT

Item	Total
Estimated Total, excluding R/W ¹	\$3,500,000
Estimated R/W	\$1,140,000
Grand Total (2024 dollars)	\$4,640,000

¹ The cost was influenced by historical data, including roundabout analyses in two planning studies (HOL-62-24.75 and CLA-US 68-4.174) that had roundabout costs of \$2 million and \$2.5 million, respectively.

R/W ESTIMATED COST DETERMINATION

Partial Takes

3172 Ridge Rd	
3214 Ridge Rd	
1530 Remsen Rd	
1527-1533 Remsen Rd	
1515 Remsen Rd	
Sum of area taken (acres) ²	0.23
Estimated cost per acre ³	\$175,934
Land cost for all partial takes	\$40,000

² Area is determined via MicroStation and using the estimated R/W limits seen in the exhibits.

³ The unit land cost in the improvement area is based on Medina County Auditor records and adjusted for the assumed highest and best use cost of the land and then multiplying by a factor of 2 for cost estimation purposes.

Total Takes

	Acres	Building value ⁴
3214 Ridge Rd	0.50	\$169,200
3215-3225 Ridge Rd	0.62	\$53,700
1540 Remsen Rd	0.19	\$127,860
1551 Remsen Rd	0.61	\$157,540

⁴ Building values for total take properties are derived from Medina County Auditor records and multiplied by 2 for cost estimating purposes.

Sum of area taken (acres)	1.92
Estimated cost per acre ³	\$175,934
Land cost for all total takes	\$338,000

Sum of building values	\$508,300
Relocation compensation (50%)	\$254,150
Building cost for all total takes	\$762,000

Partial take land costs + Total take land costs + Total take building/relocation costs	Estimated Total R/W Cost \$1,140,000
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Alternative C

Remsen Rd - Realignment & Bridge over I-271

PRELIMINARY COST ESTIMATE FOR ROAD REALIGNMENT AND BRIDGE

Item	Unit	Unit Cost	Assumed Qty.	Total
Bridge over I-271 ¹	-	-	-	\$2,000,000
Full-depth Asphalt Pavement ²	SY	\$100	12656	\$1,266,000
Fill on Bridge Approaches	CY	\$35	46444	\$1,626,000
Totals				\$4,892,000
Contingency (50%)				\$2,446,000
Engineering (25%)				\$1,223,000
Estimated R/W				\$2,746,000
Grand Total (2024 dollars)				\$11,307,000

R/W ESTIMATED COST DETERMINATION

Partial Takes

1801 Remsen Rd	
1721 Melody Ln	
1802 Melody Ln	
3 Empty Lots	
Sum of area taken (acres) ³	2.97
Estimated cost per acre ⁴	\$165,176
Land cost for all partial takes	\$490,000

Total Takes

	Acres	Building value ⁵
1864 Remsen Rd	3.03	\$162,080.00
1741 Melody Ln	0.80	\$193,720.00
1748 Melody Ln	2.43	\$458,920
Sum of area taken (acres)	6.26	
Estimated cost per acre ⁴		\$165,176
Land cost for all total takes		\$1,034,000
Sum of building values		\$814,720
Relocation compensation (50%)		\$407,360
Building cost for all total takes		\$1,222,000

¹ Bridge cost estimate of \$2 million was based on historical data for similar interstate overpasses, including an overpass replacement in Madison County (PID 104240).

² Area of new pavement does not include the Remsen Rd cul-de-sac at intersection #250 or the roundabout with SR 94 at intersection #220.

³ Area is determined via MicroStation and using the estimated R/W limits seen in the exhibits.

⁴ The unit land cost in the improvement area is based on Medina County Auditor records and adjusted for the assumed highest and best use cost of the land and then multiplying by a factor of 2 for cost estimation purposes.

⁵ Building values for total take properties are derived from Medina County Auditor records and multiplied by 2 for cost estimating purposes.

Partial take land costs + Total take land costs + Total take building/relocation costs	Estimated Total R/W Cost \$2,746,000
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	Location ID(s)	Alternative ID(s)	Note	Total Cost
← SW NE →	70	A, B	<i>Turn lanes on SR 3</i>	\$1,353,000
	40	A, B	<i>Left turn lanes on SR 3 NB</i>	\$1,327,000
		A-1	<i>Left turn lanes on SR 3 NB and Right turn lane on SR 3 SB</i>	\$1,631,000
	30	A	<i>Right turn lane on 130th St</i>	\$80,000
		B	<i>Roundabout</i>	\$3,500,000

Intersection #70, Alternatives A, B
Added turn lanes on SR 3 (Weymouth Rd) at Remsen/Foskett Rd

COST ESTIMATE FOR LEFT TURNING LANES

Item	Unit	Unit Cost	Assumed Qty.	Total
Full-depth Asphalt Pavement	SY	\$100	7725	\$773,000
Totals				\$773,000
Contingency (50%)				\$387,000
Engineering (25%)				\$193,000
Estimated R/W				\$0
Grand Total (2024 dollars)				\$1,353,000

Intersection #40, Alternatives A, B
Added turn lanes on SR 3 NB at I-71 NB Ramps

COST ESTIMATE FOR LEFT TURNING LANES

Item	Unit	Unit Cost	Assumed Qty.	Total
Full-depth Asphalt Pavement	SY	\$150	5055	\$758,000
Totals				\$758,000
Contingency (50%)				\$379,000
Engineering (25%)				\$190,000
Estimated R/W				\$0
Grand Total (2024 dollars)				\$1,327,000

Intersection #40, Alternatives A-1
Added turn lanes on SR 3 NB at I-71 NB Ramps

COST ESTIMATE FOR LEFT TURNING LANES

Item	Unit	Unit Cost	Assumed Qty.	Total
Full-depth Asphalt Pavement	SY	\$150	6213	\$932,000
Totals				\$932,000
Contingency (50%)				\$466,000
Engineering (25%)				\$233,000
Estimated R/W				\$0
Grand Total (2024 dollars)				\$1,631,000

Intersection #30, Alternative A
 Roundabout at SR 3 (Weymouth Rd) & W 130th St

COST ESTIMATE FOR LEFT TURNING LANES

Item	Unit	Unit Cost	Assumed Qty.	Total
Full-depth Asphalt Pavement	SY	\$120	362	\$43,000
Totals				\$43,000
Contingency (50%)				\$21,000
Engineering (25%)				\$11,000
Estimated R/W				\$5,000
Grand Total (2024 dollars)				\$80,000

R/W ESTIMATED COST DETERMINATION

Partial Takes

2 Empty lots		
2895 Ridge Rd		
2985 Ridge Rd		
1635 Remsen Rd		
Sum of area taken (acres) ²		0.08
Estimated cost per acre ³		\$66,734
Estimated Total R/W Costs		\$5,000

² Area is determined via MicroStation and using the estimated R/W limits seen in the exhibits.

³ The unit land cost in the improvement area is based on Medina County Auditor records and adjusted for the assumed highest and best use cost of the land and then multiplying by a factor of 2 for cost

Intersection #30, Alternative B
Roundabout at SR 3 (Weymouth Rd) & W 130th St

COST ESTIMATE FOR ROUNDABOUT

Item	Total
Estimated Total, excluding R/W ¹	\$3,500,000
Estimated R/W	\$0
Grand Total (2024 dollars)	\$3,500,000

¹ The cost was influenced by historical data, including roundabout analyses in two planning studies (HOL-62-24.75 and CLA-US 68-4.174) that had roundabout costs of \$2 million and \$2.5 million, respectively.