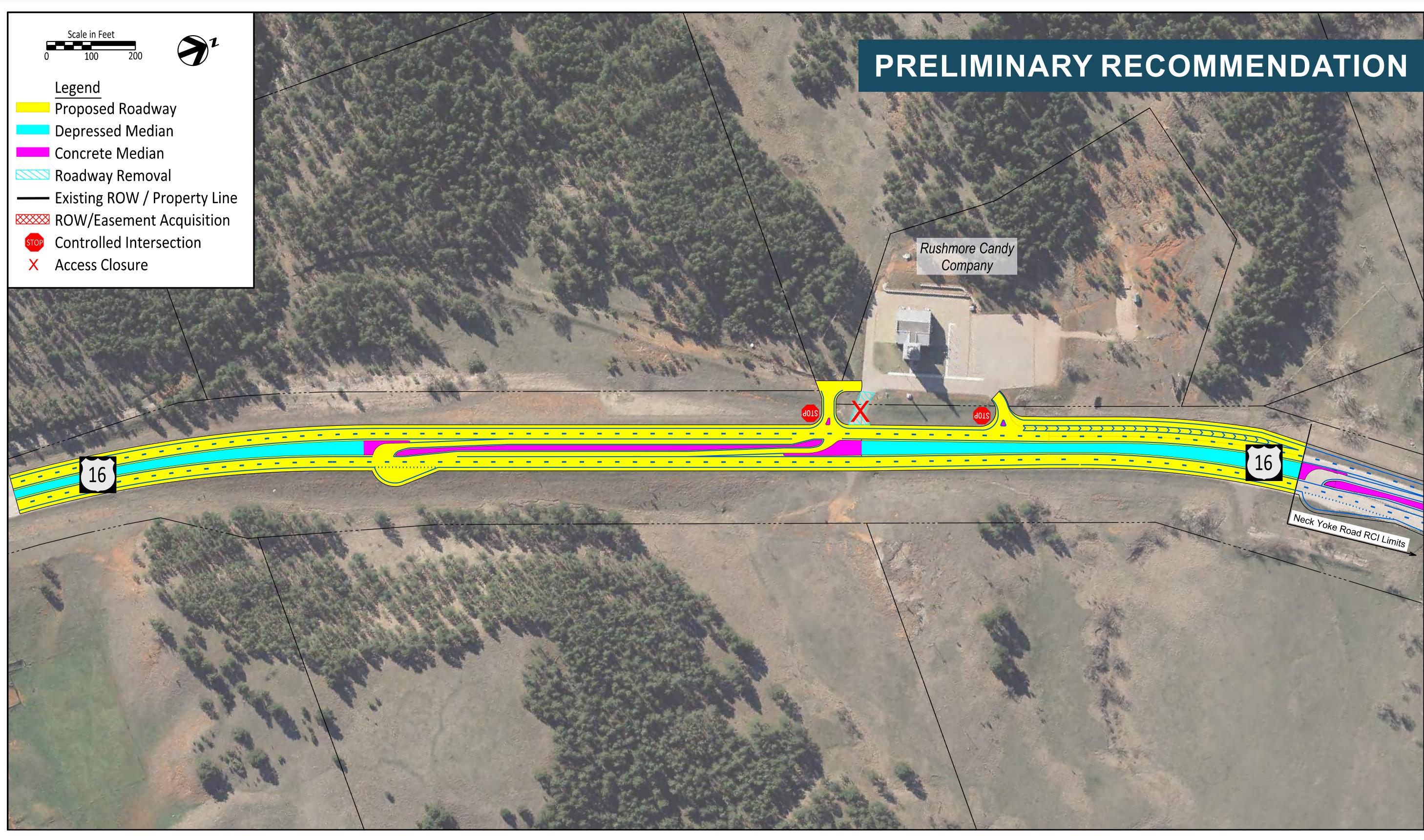
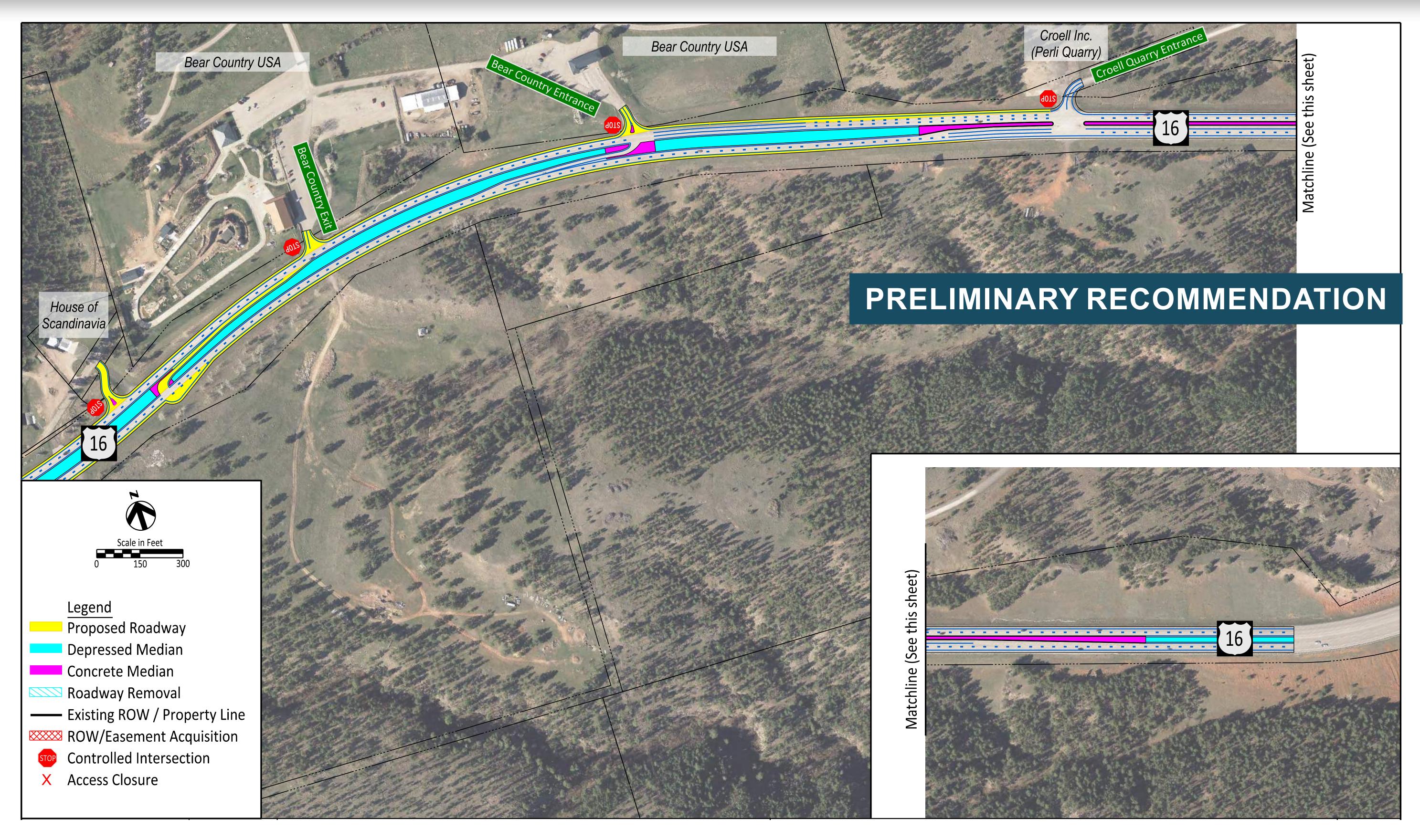
RUSHMORE CANDY COMPANY AREA







BEAR COUNTRY USA AREA

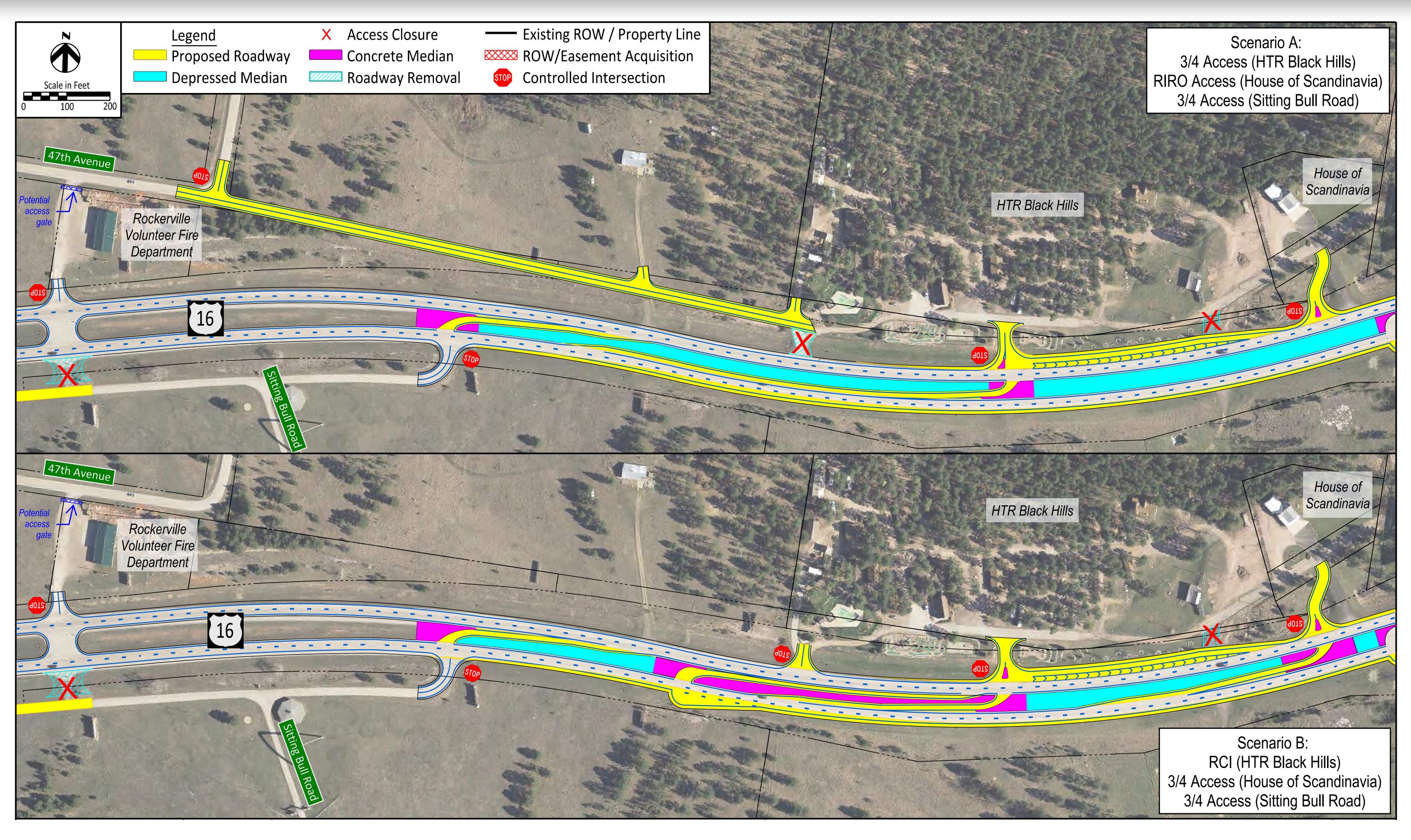








HTR BLACK HILLS RESORT AREA | SCENARIOS A & B

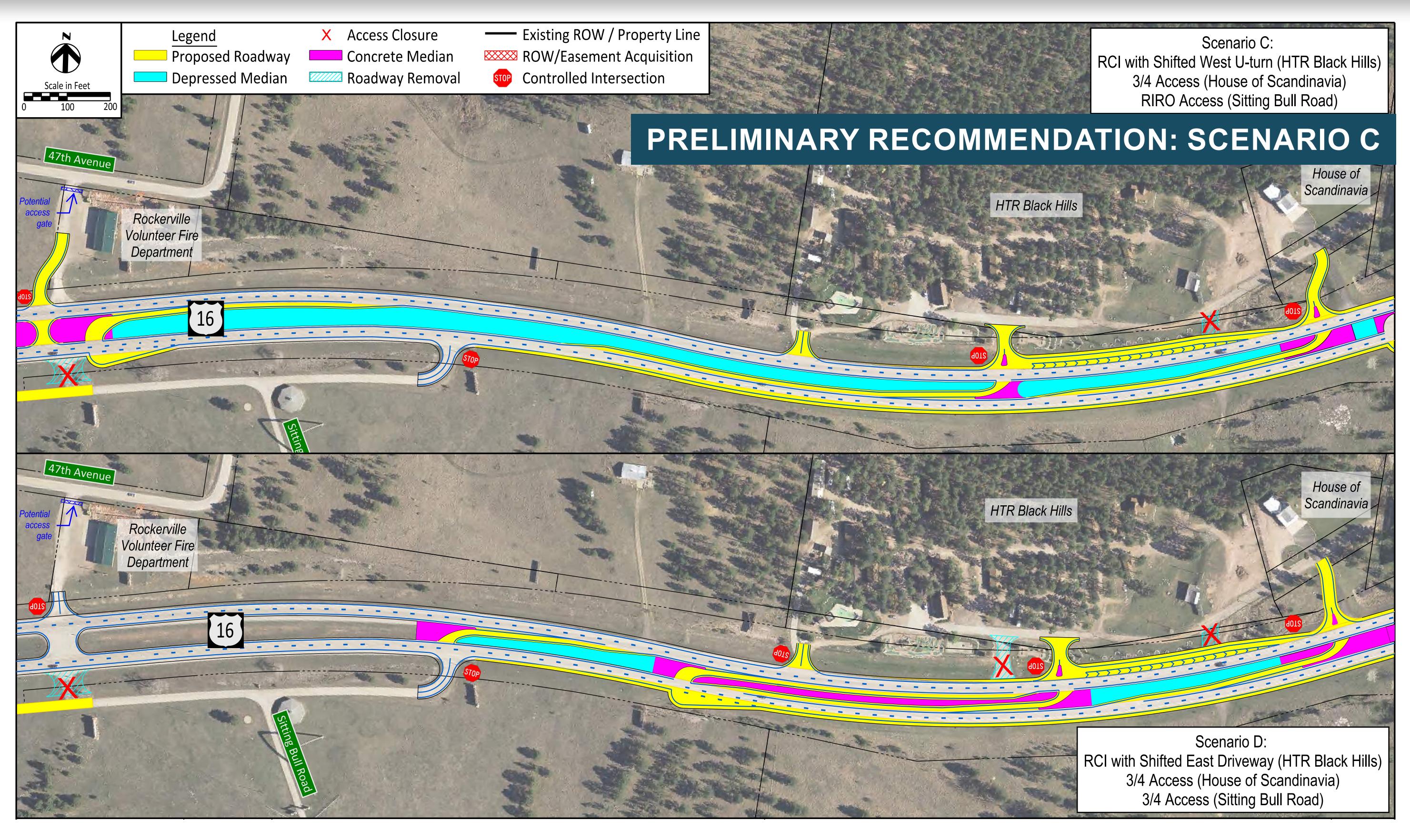








HTR BLACK HILLS RESORT AREA | SCENARIOS C & D

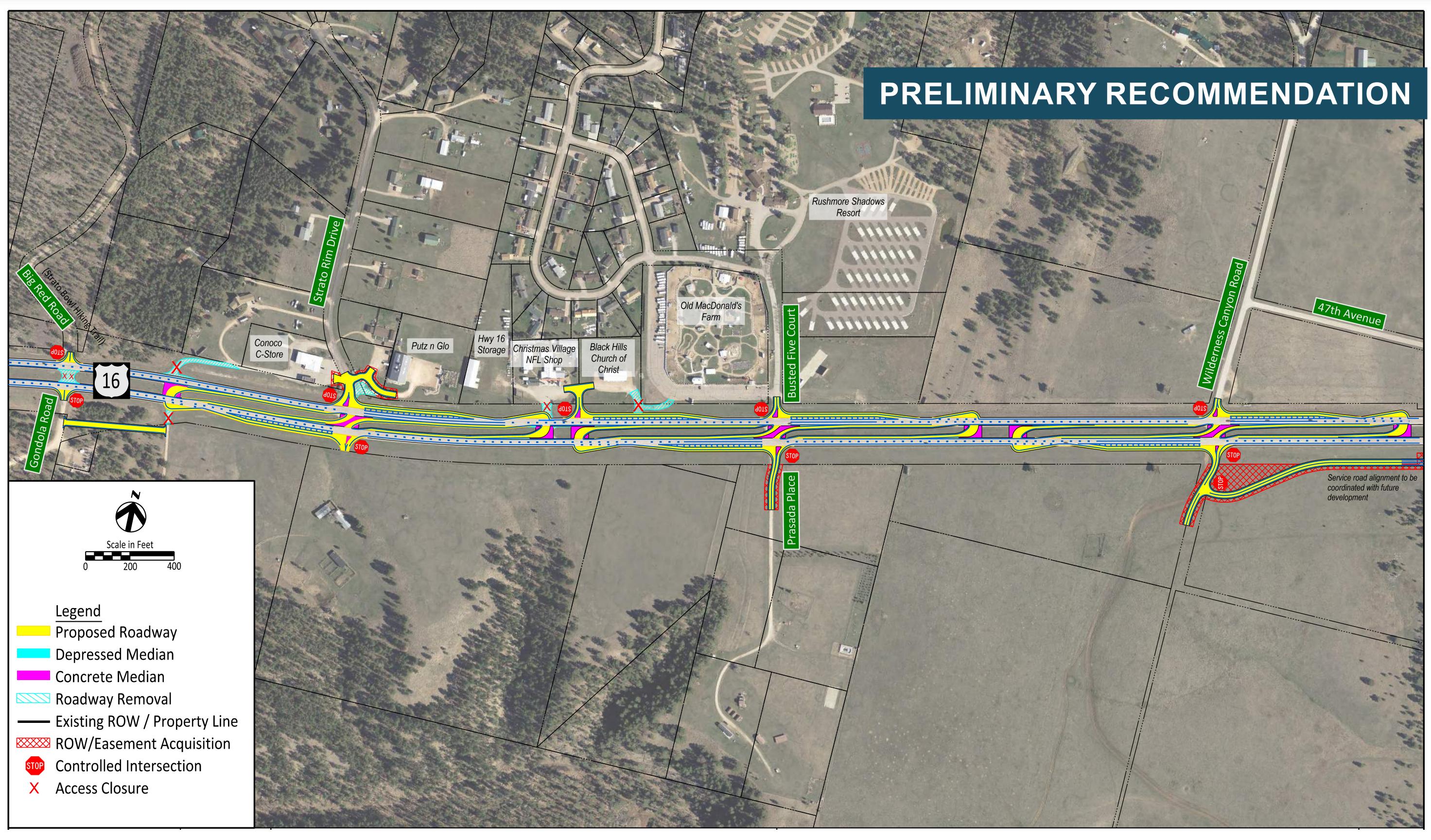








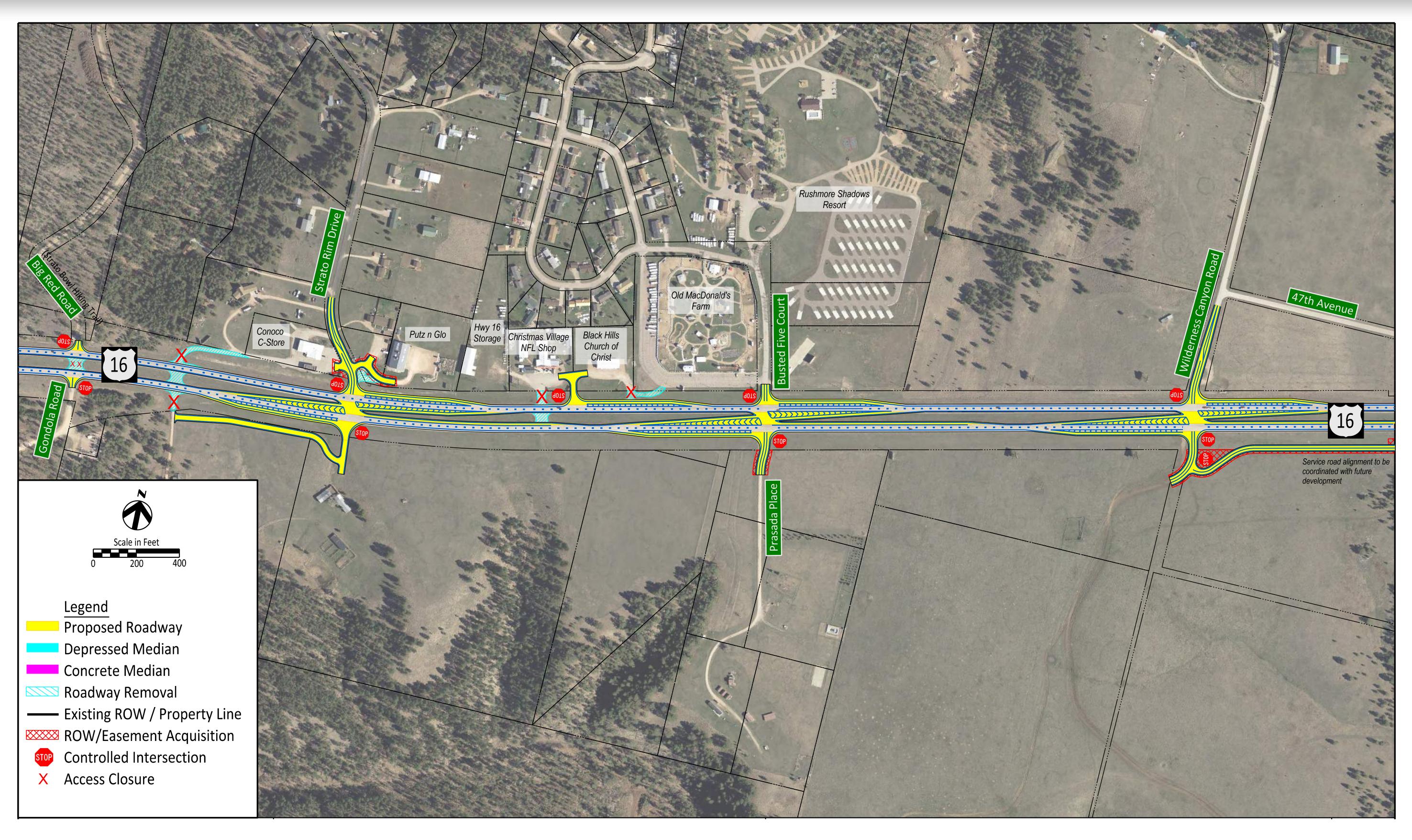
STRATO RIM - BUSTED FIVE - WILDERNESS CANYON AREA | SCENARIO A







STRATO RIM – BUSTED FIVE – WILDERNESS CANYON AREA | SCENARIO B

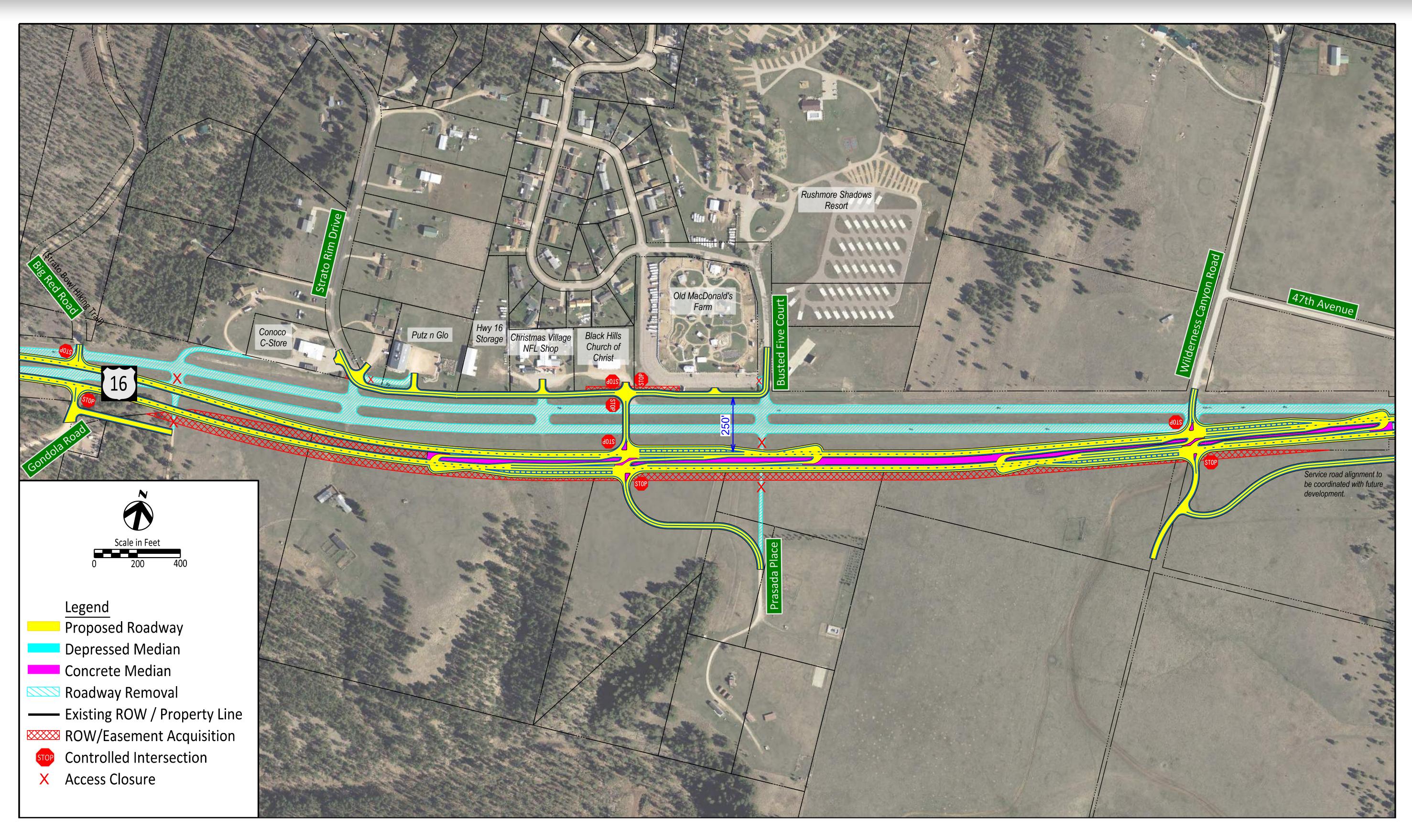








STRATO RIM – BUSTED FIVE – WILDERNESS CANYON AREA | SCENARIO C

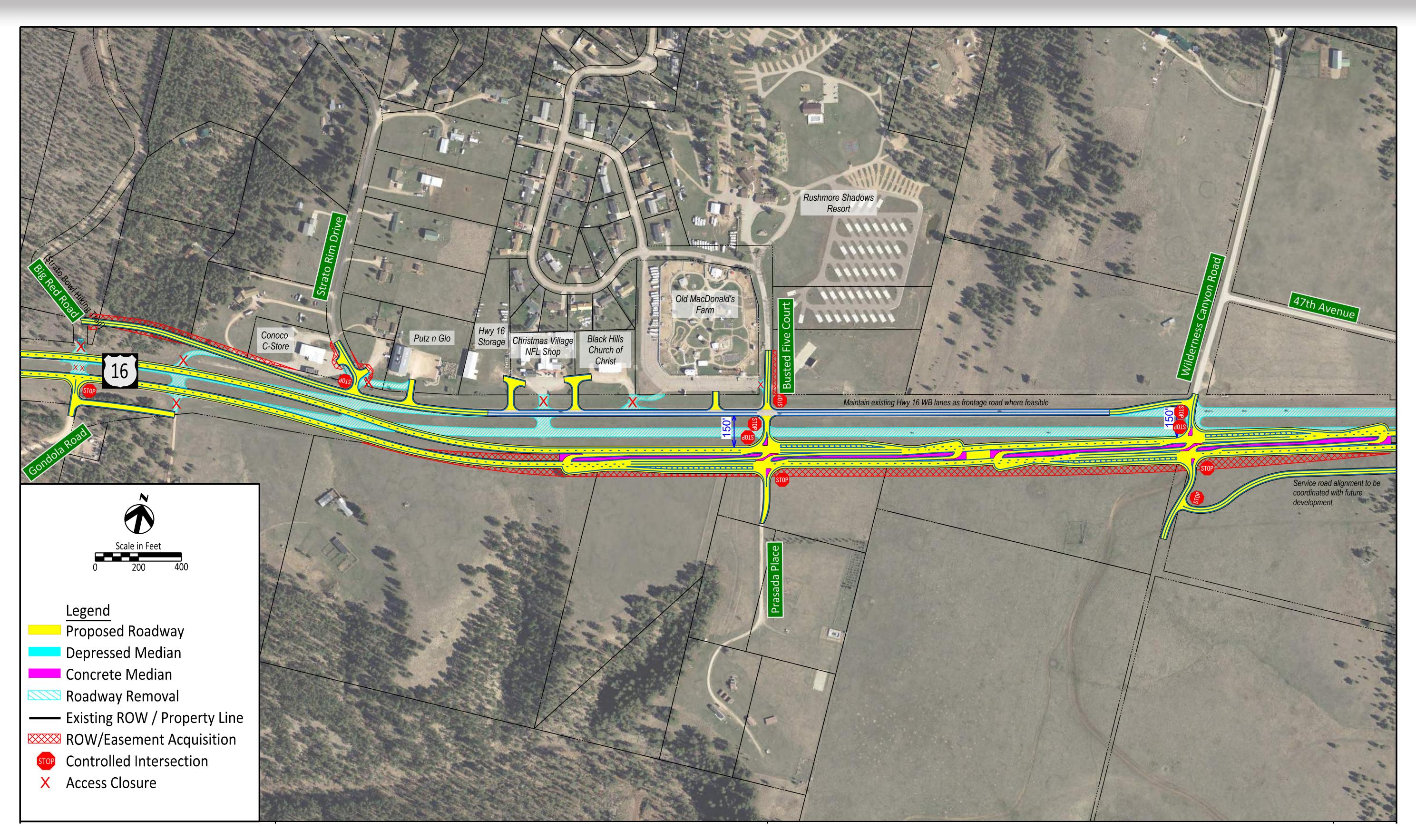








STRATO RIM – BUSTED FIVE – WILDERNESS CANYON AREA | SCENARIO D

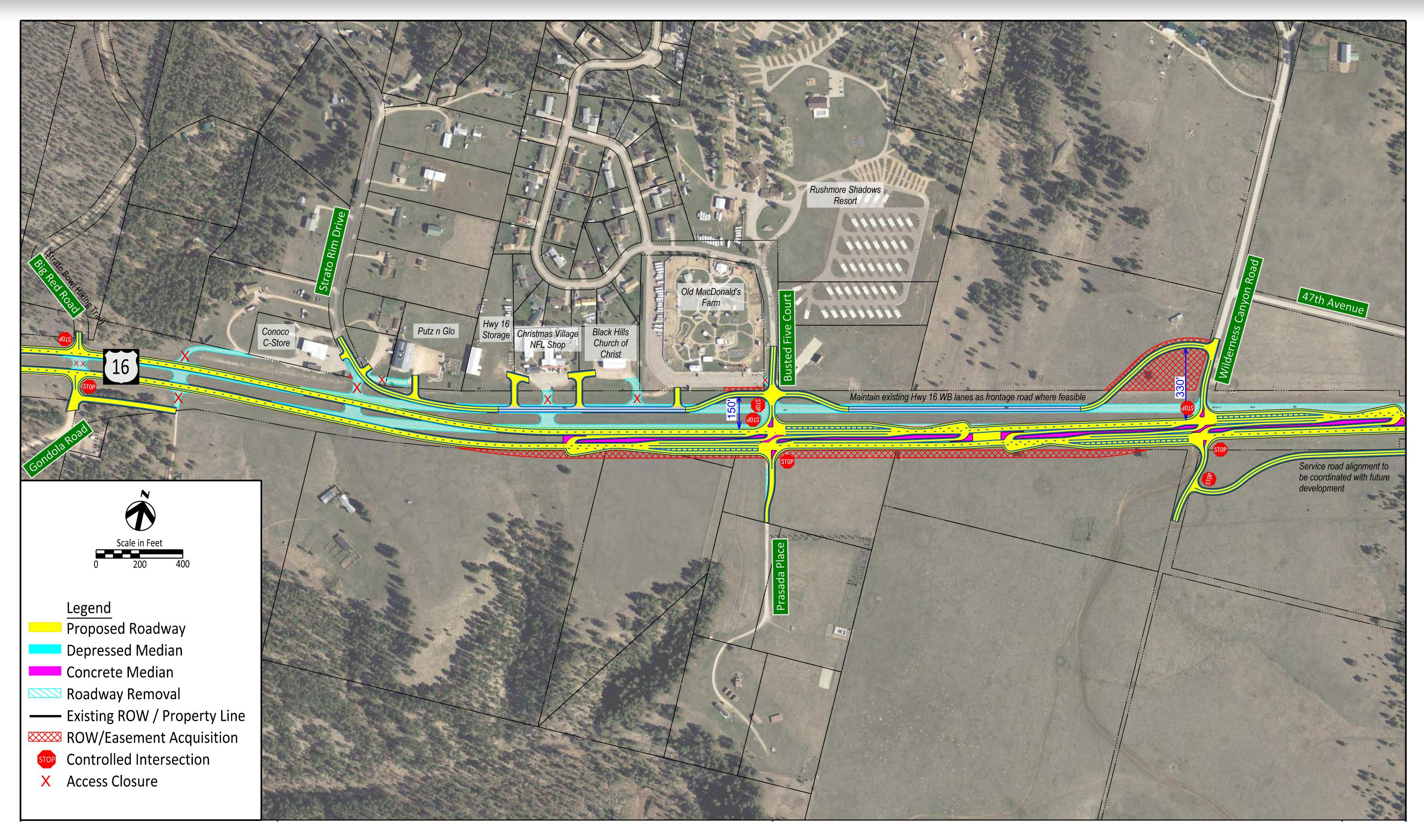








STRATO RIM – BUSTED FIVE – WILDERNESS CANYON AREA | SCENARIO E

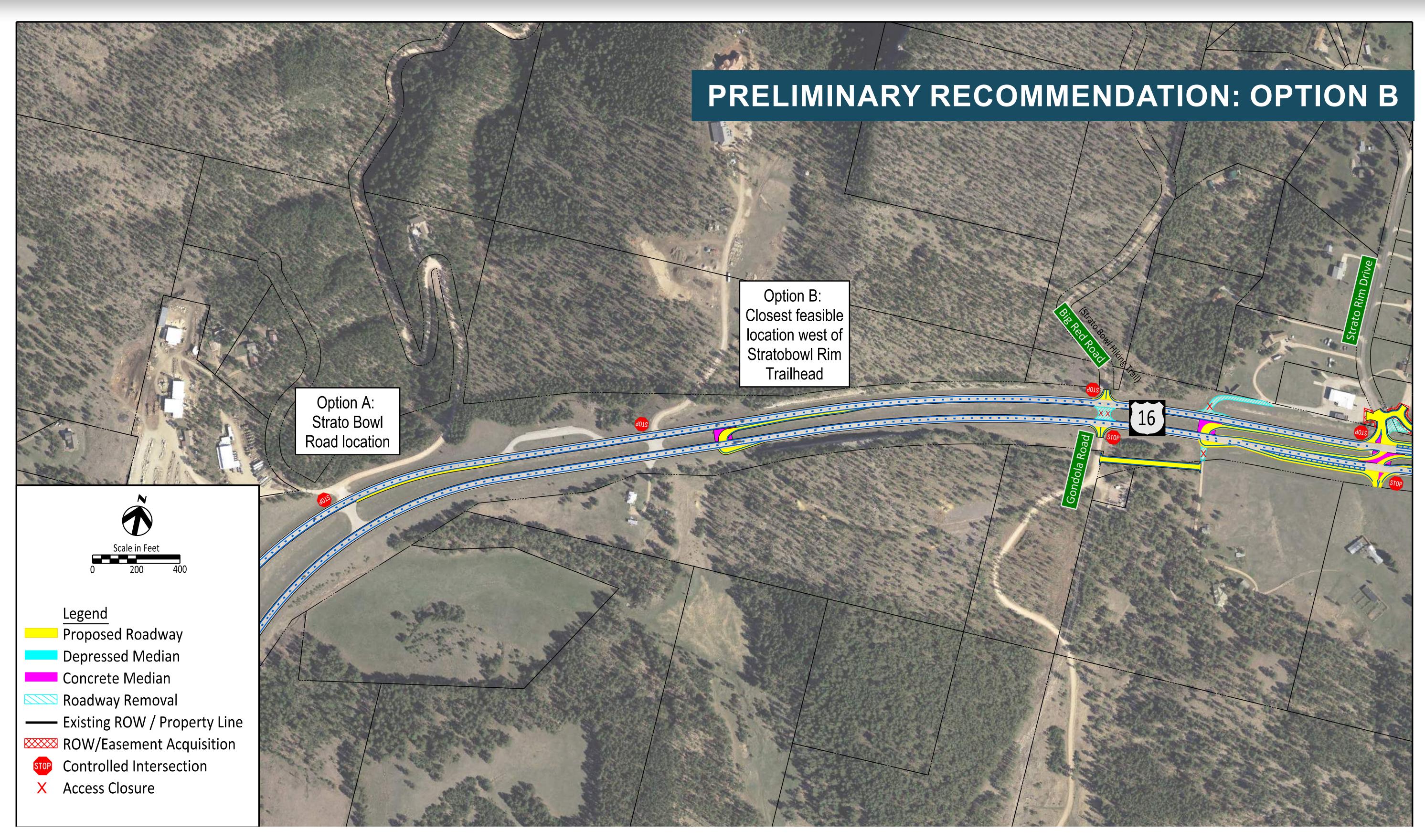








STRATOBOWL RIM TRAILHEAD U-TURN CONCEPTS







STRATO RIM – BUSTED FIVE – WILDERNESS CANYON AREA | EVALUATION MATRIX

2050 Operations			Predicted Safety (2026 – 2050)	Access vs. Mo	obility Priority	ROW Impact	Cost	
	Long-Range Intersection Operations	Worst-Case Experienced Travel Time		Highest level of (managed) access	Highest levels of mobility	Acres	Considerations	
Scenario A	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	4	<3	Potential to overlay existing lanes	
Scenario B	3	3	3	4	3	<3	Potential to overlay existing lanes	
Scenario C	<u>5</u>	4	<u>5</u>	4	<u>5</u>	>10	Full reconstruction required	
Scenario D	<u>5</u>	4	<u>5</u>	4	<u>5</u>	>10	 Full reconstruction required Existing Hwy 16 lanes as frontage road 	
Scenario E	<u>5</u>	4	<u>5</u>	4	<u>5</u>	3-5	 Full reconstruction required Existing Hwy 16 lanes as frontage road 	
No Build	2	2	2	2	1	-	_	

^{1 (}worst) – 5 (best)





³ or better meets study baseline criteria

⁴ and 5 are key differentiators

STRATO RIM - BUSTED FIVE - WILDERNESS CANYON AREA | SUMMARY

U.S. HIGHWAY 16 CORRIDOR STUDY: RURAL SUB-AREA ANALYSIS

		Predicted Safety (2026 – 2050)						
Scenario	Strato Rim Drive Intersection		Busted Five Court Intersection		Wilderness Canyon Road Intersection		Fatal & Injury Crashes	Total Crashes
	Experienced Travel Time (sec)* AM / PM	RCI Stop-Controlled Delay (sec)* AM / PM	Experienced Travel Time (sec)* AM / PM	RCI Stop-Controlled Delay (sec)* AM / PM	Experienced Travel Time (sec)* AM / PM	RCI Stop-Controlled Delay (sec)* AM / PM	% Increase (+) or Decrease (-) from No Build	% Increase (+) or Decrease (-) from No Build
Scenario A RCIs (3) on Existing Alignment	35 / 39	14/18	32 / 39	15/17	38 / 35	16/17	-29%	-22%
Scenario B Full Access Intersection Improvements (3) on Existing Alignment	27-28 / 53-68	_	27-31 / 52- 75	_	43- 60 / 58-75	_	-14%	-12%
Scenarios C, D, and E RCIs (2) on New Alignment	-	_	34 / 52	18 / 28	38 / 35	16/17	-33%	-29%
No Build	29 / 49	_	31 / 67	_	64 / 145	_	Baseline	Baseline

^{*} Reflects the worst-case condition, typically a vehicle turning left from the side-street (Strato Rim Drive, Busted Five Court, or Wilderness Canyon Road) to head towards Rapid City.

Experienced Travel Time (ETT) considers intersection delay plus extra distance travel time of the entire origindestination path through the multiple intersections of an RCI. For a traditional intersection, ETT only reflects the intersection delay.

RCI stop-controlled delay reflects the time a motorist would wait at the side-street stop sign before finding an acceptable gap to turn into the RCI's median U-turn lane.

