



Level 1 Alternative Evaluation Screening Matrix

		Description of Alternative	Purpose and Need Screening				Fatal Flaw Screening		Results	
			Provide travel redundancy (more than one independent way in or out of an area)?	Reduce vehicle miles of travel (VMT) associated with circuitous routing of traffic?	Reduce local trips through the Y intersection?	Improve emergency response?	Provide improved multi-modal connections?	Does the alternative have irresolvable environmental impacts?		Is the alternative not constructible due to physical or legal constraints?
Roadway Alignments	No Build	Existing conditions	No	No	No	No	No	No	Carry Forward	
	O-N1	Roadway centered within right-of-way.	Yes	Yes	Yes	Yes	Yes	No	Carry Forward	
	O-N2	Roadway with chicanes.	Yes	Yes	Yes	Yes	Yes	No	Carry Forward	
North Intersection Options	I-N1a	Tribal Trail Road, access to Hwy 22, is via an interchange. The connector road follows the platted easement. Indian Springs Drive access to Hwy 22 is closed. Coyote Canyon Road, access to Hwy 22, is converted to right on/off. Eastbound traffic from Coyote Canyon Road uses the connector road via an underpass.	Yes	Yes	Yes	Yes	Yes (Conditional ²)	Yes ⁴	No (Conditional ⁵)	Eliminated
	I-N1b ^{1,7}	Tribal Trail Road has an at-grade crossing on Hwy 22. All other design elements are the same as I-N1a.	Yes	Yes	Yes	Yes	Yes (Conditional ²)	Yes ⁴	No (Conditional ⁵)	Eliminated
	I-N2a	Tribal Trail Road, access to Hwy 22, is via an interchange. Coyote Canyon Road and Indian Springs Drive access to Hwy 22 is converted to right on/off. Eastbound traffic from Coyote Canyon Road uses an underpass to access Hwy 22.	Yes	Yes	Yes	Yes	Yes (Conditional ²)	No	No ⁶	Carry Forward
	I-N2b ^{1,7}	Tribal Trail Road has an at-grade crossing on Hwy 22. All other design elements are the same as I-N2a.	Yes	Yes	Yes	Yes	Yes (Conditional ²)	No	No ⁶	Carry Forward
	I-N3a	Coyote Canyon Road and Indian Springs Drive existing accesses to Hwy 22 are closed. Coyote Canyon Road traffic uses a frontage road on the north side of Hwy 22 to access the Tribal Trail Road interchange. Indian Springs traffic uses the platted connector to Tribal Trail Road.	Yes	Yes	Yes	Yes	Yes (Conditional ²)	Yes ⁴	No	Eliminated
	I-N3b ^{1,7}	Coyote Canyon Road and Tribal Trail Road share an at-grade crossing on Hwy 22. All other design elements are the same as I-N3a.	Yes	Yes	Yes	Yes	Yes (Conditional ²)	Yes ⁴	No	Eliminated
	I-N4a	Coyote Canyon Road and Indian Springs Drive existing accesses to Hwy 22 are closed. Coyote Canyon Road traffic uses a frontage road on the north side of Hwy 22 to access the Tribal Trail Road interchange. Indian Springs Drive access is to the south via W. Boyles Hill Road.	Yes	Yes	Yes	Yes	Yes (Conditional ²)	No	No	Carry Forward
	I-N4b ^{1,7}	Coyote Canyon Road and Tribal Trail Road share an at-grade crossing on Hwy 22. All other design elements are the same as I-N4a.	Yes	Yes	Yes	Yes	Yes (Conditional ²)	No	No	Carry Forward
	I-N4c ^{1,7}	Coyote Canyon Road and Tribal Trail Road access Hwy 22 via a roundabout. All other design elements are the same as I-N4a.	Yes	Yes	Yes	Yes	Yes (Conditional ³)	No	No	Carry Forward
I-N5	Coyote Canyon Road and Indian Springs Drive existing accesses are right on/right off with an underpass allowing traffic to access both sides of the Hwy 22. Tribal Trail Road traffic is directed to Indian Springs Road via the platted connector to access Hwy 22.	Yes	Yes	Yes	Yes	Yes (Conditional ²)	Yes ⁴	No (Conditional ⁵)	Eliminated	



Level 1 Alternative Evaluation Screening Matrix

North Intersection Options

Description of Alternative	Purpose and Need Screening					Fatal Flaw Screening		Results
	Provide travel redundancy (more than one independent way in or out of an area)?	Reduce vehicle miles of travel (VMT) associated with circuitous routing of traffic?	Reduce local trips through the Y intersection?	Improve emergency response?	Provide improved multi-modal connections?	Does the alternative have irresolvable environmental impacts?	Is the alternative not constructible due to physical or legal constraints?	
I-N6a Tribal Trail Road accesses Hwy 22 with a two-lane roundabout. Coyote Canyon Road, access to Hwy 22, is converted to right on/off. Eastbound traffic from Coyote Canyon Road uses an underpass to access Hwy 22 via the connector road. Indian Springs Drive access to Hwy 22 is closed.	Yes	Yes	Yes	Yes	Yes (Conditional ³)	Yes ⁴	No (Conditional ⁵)	Eliminated
I-N6b¹ Tribal Trail Road accesses Hwy 22 with a two-lane roundabout. Indian Springs Drive access to Hwy 22 is closed. Indian Springs Drive uses an underpass to access the Coyote Canyon Road frontage on the north side of Hwy 22 to the roundabout.	Yes	Yes	Yes	Yes	Yes (Conditional ³)	No	No	Carry Forward
I-N7 Coyote Canyon Road and Indian Springs Drive existing accesses to Hwy 22 are converted to an interchange. Tribal Trail Road, access to Hwy 22, is also be an interchange.	Yes	Yes	Yes	Yes	Yes (Conditional ³)	No	No ⁶	Carry Forward
I-N8 All access to Hwy 22 is via a central interchange. Coyote Canyon traffic uses a frontage road on the north side of Hwy 22 to access the highway. Indian Springs and Tribal Trail Road use a frontage road adjacent to the south side of the highway that does not follow the platted easement to access Hwy 22.	Yes	Yes	Yes	Yes	Yes (Conditional ³)	Yes ⁴	No	Eliminated
I-N9a¹ Coyote Canyon Road and Indian Springs Drive existing accesses to Hwy 22 are closed. An underpass is built to connect Coyote Canyon Road and Indian Springs Drive. Traffic uses a frontage road on the north side of the highway to access the Tribal Trail Road Hwy 22 interchange.	Yes	Yes	Yes	Yes	Yes (Conditional ²)	No	No	Carry Forward
I-N9b^{1,7} Access to Hwy 22 is an at-grade crossing. All other design elements are the same as I-N9a.	Yes	Yes	Yes	Yes	Yes (Conditional ²)	No	No	Carry Forward
I-N10¹ Tribal Trail Road has a one-way only underpass for westbound traffic to access Hwy 22. Eastbound traffic has an at grade right on/off at Tribal Trail Road. Westbound Hwy 22 traffic has a left-hand turn lane to access Tribal Trail Road. Coyote Canyon Road and Indian Springs Drive would remain the same.	Yes	Yes	Yes	Yes	Yes (Conditional ²)	No	No	Carry Forward
I-N11¹ Tribal Trail Road has signal intersection on HWY 22. Coyote Canyon Road and Indian Springs Drive would remain the same.	Yes	Yes	Yes	Yes	Yes (Conditional ²)	No	No	Carry Forward
I-N12¹ Tribal Trail Road, access to Hwy 22, is an at-grade signalized intersection. Coyote Canyon Road and Indian Springs Drive existing accesses to Hwy 22 are closed. Coyote Canyon Road accesses the connector road via an underpass. The connector road is North of the platted easement with the tie-in to Indian Springs Drive bisecting the hill located to the East of the current Hwy 22 access.	Yes	Yes	Yes	Yes	Yes (Conditional ²)	Yes ⁴	No (Conditional ⁵)	Eliminated



Level 1 Alternative Evaluation Screening Matrix

		Purpose and Need Screening					Fatal Flaw Screening			
Description of Alternative		Provide travel redundancy (more than one independent way in or out of an area)?	Reduce vehicle miles of travel (VMT) associated with circuitous routing of traffic?	Reduce local trips through the Y intersection?	Improve emergency response?	Provide improved multi-modal connections?	Does the alternative have irresolvable environmental impacts?	Is the alternative not constructible due to physical or legal constraints?	Results	
North Intersection Options	I-N13 ¹	Tribal Trail Road, access to Hwy 22, is an at-grade signalized intersection. Coyote Canyon Road and Indian Springs Drive existing accesses to Hwy 22 are closed. Coyote Canyon Road uses the connector road via an underpass. The connector road is North of the platted easement but maintains the platted tie-in with Indian Springs Drive.	Yes	Yes	Yes	Yes	Yes (Conditional ²)	Yes ⁴	No (Conditional ⁵)	Eliminated
	I-N14 ⁸	Similar to the "No Build" alternative, in that, the last 1,800-feet of Tribal Trail is not built, therefore eliminating the need for an intersection at Hwy 22. An underpass would be constructed to eliminate left-hand turns onto Hwy 22 from Coyote Canyon Road and Indian Springs Drive.	No	No	No	No	No	No	No	Eliminated
	I-N15 ⁸	Tribal Trail Road would be a limited access gravel road. The road would be gated to allow EMS to use the road when needed. Roadway could be opened for emergency egress if needed.	Yes	No	No	Yes	No	No	No	Eliminated
	I-N16 ⁸	Intermediary alternative. Tribal Trail Road, access to Hwy 22, is an at-grade right-on, right-off intersection.	Yes	Yes	Yes	Yes	Yes	No	No	Carry Forward
South Intersection Options	I-S1	Four way stop signs	Yes	Yes	Yes	Yes	Yes	No	No	Carry Forward
	I-S2	Roundabout	Yes	Yes	Yes	Yes (If Built for EMS)	Yes (Conditional ³)	No	No	Carry Forward
	I-S3 ^{1,7}	Roadway alignment of Boyles Hill Road is shifted, as a visual cue that a stop sign is ahead.	Yes	Yes	Yes	Yes	Yes	No	No	Carry Forward

Footnotes

- Figures were not presented of the at-grade intersection alternatives at the 07/25/2019 Stakeholder meeting. Group opted to evaluate the at-grade alternatives without the figures. Group also suggest two additional alternatives to be evaluated.
- Will need to be designed to accommodate bike/ped movements.
- Will need to be designed to accommodate bike/ped movements and low-clearance buses.
- Direct and indirect impacts to fen wetland.
- Uncertainty if existing easement can be used by Tribal Trail traffic. (Easement was platted for Indian Springs traffic to access Tribal Trail Connector).
- Will need to confirm access point spacing with WYDOT .
- Figures were not presented at 10/02/2019 Stakeholder meeting.
- Alternative added for review at the 11/15/2019 Stakeholder meeting.

General Notes
 No Build Alternative will be carried forward into Level 2.