

**From:** Stephen McDaniel  
**To:** [Jeremy Keene](#); [Dave DeGrandpre](#); [Kevin Slovarp](#)  
**Cc:** [Aaron Wilson](#)  
**Subject:** RE: Grant Creek  
**Date:** Thursday, August 13, 2020 3:20:16 PM  
**Attachments:** [ExpoParkTISupdate7-29-20-Review.pdf](#)

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All,

Attached are my comments. The updated TIS is not bullet proof, but after enough digging through the appendices, many of my concerns have been addressed. Grant Creek is built with a two-way left-turn lane (TWLTL) that will allow left-turning vehicles onto both Expo Parkway and Stonebridge Road while not affecting the operations of the northbound through movements. Most of the egress traffic out of the site will be making a right turn and head south into town, which allows for the existing geometrics to operate decently well, even in the full build conditions. Most of the queueing and poor intersection operations that plague the neighborhood today will be mitigated by the MDT improvements going in this fall/spring. The maximum observed queue in the full-build out is not anticipated to block any upstream intersections, or spill onto the freeway.

The main unknown at this point is the seasonal fluctuations associated with Snowbowl traffic. However, Snowbowl traffic should be peaking on weekends and not coincide with the weekday peak-hours of Grant Creek Road. This may be worth some internal discussion, and/or having the Abelin Traffic Services (ATS) reach out to Snowbowl for historic traffic data. Thoughts?

There are still a couple items that need addressed and/or were not addressed with the revised TIS that I would like clarified.

1. The TIS considers possible full build-out conditions, but provides a density below what was asked for in the rezoning. How will the City handle permitting/review of the site if/when the proposed conditions change in the future?
2. The intersection of Expo Parkway and Grant Creek Road (as analyzed) may include a dedicated left turn lane in an addition to the TWLTL. It should match the lane geometrics of the southbound direction with a TWLTL, however these are coded differently for some reason. Please have the ATS confirm the geometrics are coded correctly and consistently for both the Expo Parkway and Stonebridge intersections. **This was not addressed**

is this a dedicated left in addition to the TWLTL - why is southbound coded differently?

Lanes, Volumes, Timings  
52: Expo Pkwy 07/27/2020

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SSL	SBT	SBR
Lane Configurations		+			+						+	
Traffic Volume (vph)	12	1	214	28	1	8	82	202	4	8	363	3
Future Volume (vph)	12	1	214	28	1	8	82	202	4	8	363	3
Ideal Flow (vphpl)	1750	1750	1750	1750	1750	1750	1750	1750	1750	1750	1750	1750
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Fit		0.873			0.971			0.997			0.999	
Fit Protected		0.997			0.964			0.950			0.999	
Satd. Flow (prot)	0	1493	0	0	1606	0	1630	1711	0	0	1712	0
Fit Permitted		0.997			0.964			0.950			0.999	
Satd. Flow (perm)	0	1493	0	0	1606	0	1630	1711	0	0	1712	0
Link Speed (mph)		45			45			45			45	
Link Distance (ft)		575			291			351			587	
Travel Time (s)		8.7			4.4			5.3			8.9	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	12	1	214	28	1	8	82	202	4	8	363	3
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	227	0	0	37	0	82	206	0	0	374	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane							Yes				Yes	
Headway Factor	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Free			Free	
<b>Intersection Summary</b>												
Area Type:	Other											
Control Type:	Unsignalized											
Intersection Capacity Utilization	58.2%											
ICU Level of Service	B											
Analysis Period (min)	15											

- How was the peak 15-minute period identified for the AM peak period (7 am to 9 am) and the PM peak period (4 pm to 6 pm) without collecting 2 hours' worth of data? **This was not addressed**

Stephen McDaniel, P.E.  
Project Engineer

**From:** Jeremy Keene <KeeneJ@ci.missoula.mt.us>  
**Sent:** Thursday, August 13, 2020 9:15 AM  
**To:** Stephen McDaniel <smcdaniel@wgmgroup.com>; Dave DeGrandpre <DeGrandpreD@ci.missoula.mt.us>; Kevin Slovarp <KSlovarp@ci.missoula.mt.us>  
**Cc:** Aaron Wilson <wilsona@ci.missoula.mt.us>  
**Subject:** Re: Grant Creek

Thanks all, I think it is best that Dave stays on point with this. I'll just let Mr. Cox know about the upcoming meetings and that any additional staff comments will be available then. jk

**From:** Stephen McDaniel <smcdaniel@wgmgroup.com>  
**Sent:** Thursday, August 13, 2020 7:54:27 AM  
**To:** Dave DeGrandpre; Jeremy Keene; Kevin Slovarp  
**Subject:** RE: Grant Creek

All, I should be able wrap up my comments and get them to you all today.

Best,

Stephen McDaniel, P.E.  
Project Engineer

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**From:** Dave DeGrandpre <[DeGrandpreD@ci.missoula.mt.us](mailto:DeGrandpreD@ci.missoula.mt.us)>  
**Sent:** Thursday, August 13, 2020 6:25 AM  
**To:** Jeremy Keene <[KeeneJ@ci.missoula.mt.us](mailto:KeeneJ@ci.missoula.mt.us)>; Kevin Slovarp <[KSlovarp@ci.missoula.mt.us](mailto:KSlovarp@ci.missoula.mt.us)>;  
Stephen McDaniel <[smcdaniel@wgmgroupp.com](mailto:smcdaniel@wgmgroupp.com)>  
**Subject:** RE: Grant Creek

Hi Jeremy,

The planning board held a public hearing on the application August 5 and made a recommendation not to approve. City Council will decide the request.

The LUP will hold an informational meeting on the project on 8/19 and public hearing on 8/24. Abelin Traffic Services revised the TIS to address staff comments (although I am not sure to what extent). Is someone from Public Works/Engineering able to provide comments to the LUP or would you be willing to authorize WGM Group to provide comments?

Thanks,

Dave

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**From:** Jeremy Keene <[KeeneJ@ci.missoula.mt.us](mailto:KeeneJ@ci.missoula.mt.us)>  
**Sent:** Tuesday, August 11, 2020 4:14 PM  
**To:** Kevin Slovarp <[KSlovarp@ci.missoula.mt.us](mailto:KSlovarp@ci.missoula.mt.us)>; Stephen McDaniel ([smcdaniel@wgmgroupp.com](mailto:smcdaniel@wgmgroupp.com))  
**Cc:** Dave DeGrandpre <[DeGrandpreD@ci.missoula.mt.us](mailto:DeGrandpreD@ci.missoula.mt.us)>  
**Subject:** Fw: Grant Creek

Can you give me an update on this? Thanks, jk

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**From:** rtxcox <[birder1@bresnan.net](mailto:birder1@bresnan.net)>  
**Sent:** Tuesday, August 11, 2020 3:44 PM  
**To:** Jeremy Keene  
**Subject:** Grant Creek

Good afternoon,

I am putting together some comments for Council. Has Engineering or Public Works made any further reviews after Mr. Abelin added some narrative to his TIS but basically dismissed the 2019

measured traffic data as “anomalous”? Are either Department making an updated comment in light of my comments and the updated TIS?

Thanks for your consideration of this. Call if you wish; I would value your input.

**RT Cox**  
**307.299.2814**  
[birder1@bresnan.net](mailto:birder1@bresnan.net)

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