

## Second Cross- Exhibit Ellis Mays

Email exchange re signal design

**From:** [Mays, Ellis](#)  
**To:** [Jeff Morse](#)  
**Cc:** [Robert Lochmiller](#)  
**Subject:** RE: 0313 Barker Rd UP crossing - Spokane Valley, WA, MP 0012.990, DOT 662526C  
**Date:** Thursday, June 24, 2021 11:42:42 AM  
**Attachments:** [75thLogo .25in+ FullColor 99203259-1365-4410-bb3d-2889f630e7c8.png](#)  
[Icon-Grayscale-12px 6413fc5d-67ab-4910-8bd1-3564238002a4.png](#)  
[Twitter Logo Grayscale 9dae3634-38fc-4fba-93ee-889a3a77a75a.png](#)  
[LinkedIn Logo Grayscale b2a007df-4e08-4a27-a227-808ec12a9708.png](#)

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Jeff,

In reviewing the draft agreement UPRR provided me this morning (which should be coming to the City soon) I noticed that I made an error in the plan review: the stop bar for the railroad should be 8' upstream of the closest device per the MUTCD (cantilever in this case, not the gate).

We do not need to change the exhibit in the agreement unless you find it important, however, please make the correction in your construction plans as it will be verified during the final inspection for the project.

Thanks,

**Ellis Mays**

Public Project Manager

[emays@benesch.com](mailto:emays@benesch.com)

**mobile:** 402-427-4231 **office:** 916-774-7165  
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**From:** Jeff Morse <jmorse@spokanevalley.org>  
**Sent:** Monday, August 17, 2020 8:20 AM  
**To:** Mays, Ellis <EMays@benesch.com>  
**Cc:** Robert Lochmiller <rlochmiller@spokanevalley.org>  
**Subject:** RE: 0313 Barker Rd UP crossing - Spokane Valley, WA, MP 0012.990, DOT 662526C

Ellis

See attached updated layout exhibit.

JEFF MORSE

Jeff Morse | Engineering Technician – CAD Administrator  
10210 E. Sprague Avenue | Spokane Valley, WA 99206  
Phone: (509) 720-5022 | [jmorse@spokanevalley.org](mailto:jmorse@spokanevalley.org)



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**From:** Mays, Ellis <[EMays@benesch.com](mailto:EMays@benesch.com)>  
**Sent:** Friday, August 14, 2020 10:37 AM  
**To:** Jeff Morse <[jmorse@spokanevalley.org](mailto:jmorse@spokanevalley.org)>  
**Subject:** RE: 0313 Barker Rd UP crossing - Spokane Valley, WA, MP 0012.990, DOT 662526C

Jeff,

Can you also send me the updated RR exhibit for my records?

Thanks,

Ellis A. Mays | Project Manager

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**From:** Jeff Morse <[jmorse@spokanevalley.org](mailto:jmorse@spokanevalley.org)>  
**Sent:** Friday, August 14, 2020 7:57 AM  
**To:** Mays, Ellis <[EMays@benesch.com](mailto:EMays@benesch.com)>  
**Cc:** Robert Lochmiller <[rlochmiller@spokanevalley.org](mailto:rlochmiller@spokanevalley.org)>; Gloria Mantz <[gmantz@spokanevalley.org](mailto:gmantz@spokanevalley.org)>  
**Subject:** RE: 0313 Barker Rd UP crossing - Spokane Valley, WA, MP 0012.990, DOT 662526C

Ellis

Attached is your layout sketch with the missing needed dimensions. This should get you what you need to make a submittal on your end. If you need anything today just call me on my cell. I will jump on it for you.

I will update the layout exhibit and striping plans with the changes and send them next week. Have a great weekend.

Sincerely,

JEFF MORSE

Jeff Morse | Engineering Technician – CAD Administrator  
10210 E. Sprague Avenue | Spokane Valley, WA 99206  
Phone: (509) 720-5022 | [jmorse@spokanevalley.org](mailto:jmorse@spokanevalley.org)



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**From:** Mays, Ellis <[EMays@benesch.com](mailto:EMays@benesch.com)>  
**Sent:** Thursday, August 13, 2020 2:53 PM  
**To:** Jeff Morse <[jmorse@spokanevalley.org](mailto:jmorse@spokanevalley.org)>  
**Subject:** RE: 0313 Barker Rd UP crossing - Spokane Valley, WA, MP 0012.990, DOT 662526C

Jeff,

Please see attached diagram per our call. If you have the actual dimensions for the 3 greater than (highlighted in red) dimensions that would be helpful as well. Let me know if anything else looks incorrect.

Thanks,

Ellis A. Mays | Project Manager

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**From:** Jeff Morse <[jmorse@spokanevalley.org](mailto:jmorse@spokanevalley.org)>  
**Sent:** Thursday, August 13, 2020 1:13 PM  
**To:** Mays, Ellis <[EMays@benesch.com](mailto:EMays@benesch.com)>  
**Subject:** RE: 0313 Barker Rd UP crossing - Spokane Valley, WA, MP 0012.990, DOT 662526C

Ellis

Did you get the invite to the 2 pm meeting?

JEFF MORSE

Jeff Morse | Engineering Technician – CAD Administrator  
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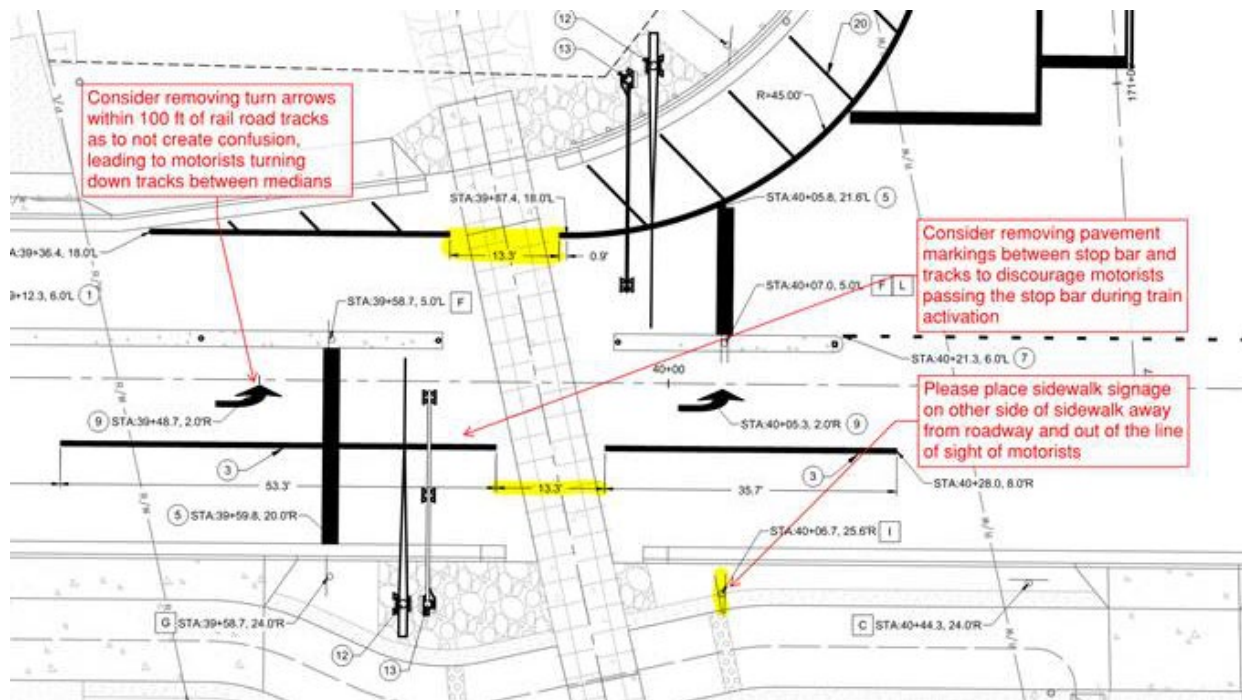


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**From:** Mays, Ellis <[EMays@benesch.com](mailto:EMays@benesch.com)>  
**Sent:** Thursday, August 13, 2020 11:44 AM  
**To:** Jeff Morse <[jmorse@spokanevalley.org](mailto:jmorse@spokanevalley.org)>  
**Cc:** Robert Lochmiller <[rlochmiller@spokanevalley.org](mailto:rlochmiller@spokanevalley.org)>; Ryan Kipp <[rkipp@spokanevalley.org](mailto:rkipp@spokanevalley.org)>; Jeremy Clark <[jlark@spokanevalley.org](mailto:jlark@spokanevalley.org)>  
**Subject:** RE: 0313 Barker Rd UP crossing - Spokane Valley, WA, MP 0012.990, DOT 662526C

Jeff,

Thanks for help preparing all these documents! I have three minor comments on the general plans and they will not affect signal design:



Regarding the RR exhibit can we do a 1 hour call today with your designer? There are a few changes and dimensions I need due to this not being a typical crossing and a phone call can get everything handled quickly so I can submit everything to UPRR this week.

Thanks,

Ellis A. Mays | Project Manager

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**From:** Jeff Morse <[jmorse@spokanevalley.org](mailto:jmorse@spokanevalley.org)>  
**Sent:** Thursday, August 6, 2020 7:47 AM  
**To:** Mays, Ellis <[EMays@benesch.com](mailto:EMays@benesch.com)>  
**Cc:** Robert Lochmiller <[rlochmiller@spokanevalley.org](mailto:rlochmiller@spokanevalley.org)>; Ryan Kipp <[rkipp@spokanevalley.org](mailto:rkipp@spokanevalley.org)>; Jeremy Clark <[jclark@spokanevalley.org](mailto:jclark@spokanevalley.org)>  
**Subject:** RE: 0313 Barker Rd UP crossing - Spokane Valley, WA, MP 0012.990, DOT 662526C

Ellis

Attached are the revised sheets per your comments. I have also created an exhibit to show the dimensions for the RR crossing area per your summary below. Your summary is in blue and my responses are in red.

Regarding the signal and surface design I need a railroad plan sheet with the information as shown on the attached and as summarized:

- Face of curb to centerline of devices – The exhibit you sent appears to shows dimension to back of curb but I showed to face per this summary.
- Edge of sidewalk to centerline of devices - Included

- Devices dimensioned from centerline of the track - Included
- DWD dimensioned from centerline of track – The exhibit shows one from centerline and one from center of rail. I dimensioned both from center of rail for constancy. As I previous stated the WSDOT standard limits the distance from center of rail to face of DWD to a maximum of 15', so that is what is maintained on the south side. See attached WSDOT standard plan.
- RR Cabinet dimensioned from track and edge of sidewalk (25ft from track, 30ft from face of curb) – My notes taken at on-site diagnostic meetings are 25 ft from face of curb and 30 ft from rail. Please verify which is correct.
- Median face dimensioned from centerline of track (10ft) - Included
- Width of lanes, median, shoulder, sidewalks, etc. at RR crossing – cross section width should equal total roadway width – Included
- Skew angle of crossing - Included
- Total crossing proposed width showing the 3ft overhang on either side of the crossing - Included
- Clearly show the limits of the existing crossing surface and the proposed (i.e. the new East edge is XX feet from the existing East edge, or similar) – Included

Plan Sheet comments and responses.

CH3 - During the diagnostic we talked about flasher visibility from this stop bar – This placement of the stop bar may provide visibility to the flasher intended for SB Barker traffic – is that the intent? – The stop bar location was adjusted to improve sight distances and NB left turn movement for larger vehicles. It is our understanding that the design decisions of the signal arms, cantilevers and flasher locations is to be done by UP RR staff.

RXR pavement markings are suggested for lanes only turning towards the RR – A right turn only arrow needed to be added to this lane which limits the room for the RXR markings.

CH4 – Consider placing all trail signs East of the trail to minimize motorist confusion – Additional text, about the rotation, has been added to the keynote for these signs. The path is 10 ft wide and offset 5 ft from back of curb, which puts the sign on the west side of the path (SB ped/bike traffic) more than 30 ft away from the SB vehicle traffic lane. This should be sufficient distance to prevent confusion.

Consider adding R15-1 on both sides of the post – Added.

I highlighted in yellow on the plans the changes that have been made per your comments. I have added a complete updated set to the Cloud share without the highlights for your use. The Crossing layout, highlighted revised sheets and WSDOT standard plan F-45.10-02 are all attached.

Sincerely,

JEFF MORSE

Jeff Morse | Engineering Technician – CAD Administrator  
10210 E. Sprague Avenue | Spokane Valley, WA 99206  
Phone: (509) 720-5022 | [jmorse@spokanevalley.org](mailto:jmorse@spokanevalley.org)



**From:** Mays, Ellis <[EMays@benesch.com](mailto:EMays@benesch.com)>  
**Sent:** Tuesday, August 4, 2020 10:51 AM  
**To:** Jeff Morse <[jmorse@spokanevalley.org](mailto:jmorse@spokanevalley.org)>  
**Cc:** Robert Lochmiller <[rlochmiller@spokanevalley.org](mailto:rlochmiller@spokanevalley.org)>  
**Subject:** RE: 0313 Barker Rd UP crossing - Spokane Valley, WA, MP 0012.990, DOT 662526C

Jeff,

Please see attached comments – they are pretty minor.

Regarding the signal and surface design I need a railroad plan sheet with the information as shown on the attached and as summarized:

- Face of curb to centerline of devices
- Edge of sidewalk to centerline of devices
- Devices dimensioned from centerline of the track
- DWD dimensioned from centerline of track
- RR Cabinet dimensioned from track and edge of sidewalk (25ft from track, 30ft from face of curb)
- Median face dimensioned from centerline of track (10ft)
- Width of lanes, median, shoulder, sidewalks, etc. at RR crossing – cross section width should equal total roadway width
- Skew angle of crossing
- Total crossing proposed width showing the 3ft overhang on either side of the crossing
- Clearly show the limits of the existing crossing surface and the proposed (i.e. the new East edge is XX feet from the existing East edge, or similar)

Give me a shout if you have any questions

Thanks,

Ellis A. Mays | Project Manager

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**From:** Jeff Morse <[jmorse@spokanevalley.org](mailto:jmorse@spokanevalley.org)>  
**Sent:** Monday, August 3, 2020 2:42 PM  
**To:** Mays, Ellis <[EMays@benesch.com](mailto:EMays@benesch.com)>  
**Cc:** Robert Lochmiller <[rlochmiller@spokanevalley.org](mailto:rlochmiller@spokanevalley.org)>  
**Subject:** RE: 0313 Barker Rd UP crossing - Spokane Valley, WA, MP 0012.990, DOT 662526C

Ellis

You will be receiving a link to a Cloud Share file for the Barker Rd UP crossing project. Once you receive that link I will add you as a user and you will be able to access files that will be shared. A pdf set of the 60% plans for your use in the RR crossing design have been added. It is easier to use the Cloud share since the file size can sometimes get to large to email. If you do not receive the email link by end of day check your spam/junk mail as sometimes it will get routed there.

Per our on-site diagnostic meeting the 60% plans are all that you needed to start your design process. If you have any questions or need additional information email me or Rob right away.

Sincerely,

JEFF MORSE

Jeff Morse | Engineering Technician – CAD Administrator  
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Phone: (509) 720-5022 | [jmorse@spokanevalley.org](mailto:jmorse@spokanevalley.org)



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**From:** Mays, Ellis <[EMays@benesch.com](mailto:EMays@benesch.com)>  
**Sent:** Friday, July 10, 2020 11:22 AM  
**To:** Jeff Morse <[jmorse@spokanevalley.org](mailto:jmorse@spokanevalley.org)>; Turcott, Mike (UTC) <[mike.turcott@utc.wa.gov](mailto:mike.turcott@utc.wa.gov)>; Betty Young - Utilities and Transportation Commission (UTC)/Rail Safety ([betty.young@utc.wa.gov](mailto:betty.young@utc.wa.gov)) <[betty.young@utc.wa.gov](mailto:betty.young@utc.wa.gov)>; Robert Lochmiller <[rlochmiller@spokanevalley.org](mailto:rlochmiller@spokanevalley.org)>; Ryan Kipp <[rkipp@spokanevalley.org](mailto:rkipp@spokanevalley.org)>; Jerremy Clark <[jclark@spokanevalley.org](mailto:jclark@spokanevalley.org)>  
**Cc:** Gloria Mantz <[gmantz@spokanevalley.org](mailto:gmantz@spokanevalley.org)>  
**Subject:** RE: 0313 Barker Rd UP crossing - Spokane Valley, WA, MP 0012.990, DOT 662526C

All,

Please see attached my comments.

Thanks,

Ellis A. Mays | Project Manager

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**From:** Jeff Morse <[jmorse@spokanevalley.org](mailto:jmorse@spokanevalley.org)>  
**Sent:** Tuesday, July 7, 2020 7:23 AM  
**To:** Mays, Ellis <[EMays@benesch.com](mailto:EMays@benesch.com)>; Turcott, Mike (UTC) <[mike.turcott@utc.wa.gov](mailto:mike.turcott@utc.wa.gov)>; Betty Young - Utilities and Transportation Commission (UTC)/Rail Safety ([betty.young@utc.wa.gov](mailto:betty.young@utc.wa.gov)) <[betty.young@utc.wa.gov](mailto:betty.young@utc.wa.gov)>; Robert Lochmiller <[rlochmiller@spokanevalley.org](mailto:rlochmiller@spokanevalley.org)>; Ryan Kipp <[rkipp@spokanevalley.org](mailto:rkipp@spokanevalley.org)>; Jerremy Clark <[jclark@spokanevalley.org](mailto:jclark@spokanevalley.org)>  
**Cc:** Gloria Mantz <[gmantz@spokanevalley.org](mailto:gmantz@spokanevalley.org)>  
**Subject:** 0313 Barker Rd UP crossing - Spokane Valley, WA, MP 0012.990, DOT 662526C

To All

Attached are an updated set of onsite diagnostic meeting notes. Some minor changed due to errors and



grammar. Also added note 8 under immediate action items.

Thanks again.

JEFF MORSE

Jeff Morse | Engineering Technician – CAD Administrator  
10210 E. Sprague Avenue | Spokane Valley, WA 99206  
Phone: (509) 720-5022 | [jmorse@spokanevalley.org](mailto:jmorse@spokanevalley.org)



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