



BAKER CORRIDOR
PLANNING STUDY

APPENDIX A: Consultation, Coordination, and Community Involvement

Baker Corridor Planning Study

November 2015

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NO.	DATE / FROM	COMMENT	RESPONSE
1	<p>10-22-15</p> <p>Barbara Olind</p> <p>1A</p> <p>1B</p> <p>1C</p> <p>1D</p>	<p style="text-align: right;"><i>10-17-2015</i></p> <p>Baker Corridor Planning Study</p> <p>Re: Recommended Improvements Option / City of Baker & Surrounding Vicinity</p> <p style="text-align: center;">RECEIVED OCT 22 2015 TRANSPORTATION PLANNING</p> <p>1A I would like to see some sort of solution for parking at the Lake City Shopping Center where several businesses are. Possibly some sort of through way with division blocks with parking spaces.</p> <p>Parking at the Baker Post Office is horrific. Here again possible space to the North of the post office. Both are just accidents waiting to happen.</p> <p>Young drivers are a problem with too fast a speed darting through the Lake City shopping center also so fast coming around the corners at the post office.</p> <p>Next Hi-Way 12 which runs West - East through down town which crosses the railroad tracks.</p> <p>1B Not long ago there was mention of putting in an underground vi-dock beneath the tracks. I think this option should be pursued. We have several businesses beyond the tracks going East. Often a train is stopped there for as long as twenty minutes. We have more trains of late than in the past.</p> <p>1C For a small town having five crossings of the railroad tracks I feel we should request a quiet zone from 10:PM to 5:AM. I do not believe we have that much traffic crossing the tracks during these hours. This past July between thunderstorms, train whistles and fire crackers was impossible to get a good nights sleep. Not to mention barking dogs. I must add the firecrackers were not so bad this year. Apparently shooting firecrackers within city limits not being lawful must have been enforced more.</p> <p>1D Our building zones need to be enforced as well in regards to over size metal buildings being erected within residential areas. City fathers need to be more strict in zone changes in allowing some requirement changes to the zone areas.</p> <p>I am out of town this evening- so did the next best way to voice my issues for improvement. Have been a resident of Baker for 42 years and have been at this address for 36 years.</p> <p>Thank You / Sincerely</p> <p>Barbara Olind</p> <p>920 East Colorado Ave. <i>PO Box 104</i></p> <p>Baker, Mt.</p> <p><i>barbolind@midrivers.com - email</i></p> <p><i>Cynthia,</i> <i>I am gone for 2 weeks. I know this will get to you by Tues. for Baker meeting.</i></p>	<p>Thank you for your comments. They are included in our study records.</p> <p>1A The City of Baker has jurisdiction over parking. Implementation of safety measures within existing parking areas and/or the creation of new parking areas within city limits would be a responsibility of the City and/or private businesses.</p> <p>1B A grade separation of the at-grade railroad crossing located on Montana Highway 7 was examined in the planning study and it was determined that an overpass/underpass was not feasible due to limited right-of-way and proximity to existing buildings. An overpass is likely not feasible due to the limited distance available between the railroad crossing and the US 12/MT 7 intersection for the vertical grades to meet standard railroad clearances.</p> <p>An underpass at this location would also result in substantial impacts to the businesses located along MT 7 north of the main intersection.</p> <p>1C The Federal Railroad Administration (FRA) allows local governments to designate quiet zones. In order to do so, supplementary safety measures at railroad intersections must be implemented. Establishing a quiet zone within the City of Baker would be a local responsibility. More information on the Train Horn Rule (49 CFR Part 222) and quiet zones can be found on the FRA website at: https://www.fra.dot.gov/Page/P0104</p> <p>1D The City of Baker is responsible for enforcement of local zoning regulations.</p>



NO.	DATE / FROM	COMMENT	RESPONSE
2	<p>10-22-15</p> <p>William Randash</p> <p>Steve Baldwin</p> <p>Fallon County Commissioners</p>	 <p>October 22, 2015</p> <p>Corrina Collins Montana Department of Transportation 2960 Prospect Avenue PO Box 201001 Helena, MT 59620-1001</p> <p>RE: Baker Corridor Study Comments</p> <p>Corrina:</p> <p>First of all I want to thank you and the group you put together to study our traffic problem in Baker. You and they did a remarkable job. I've listed some of my ideas about a truck by-pass or corridor as you call it below:</p> <ol style="list-style-type: none"> 1. All of the routes skirting Baker to the North appear to be too costly to be realistic. 2. Knowing the people whose land the corridor would be crossing, they could be hard to deal with. 3. I know you are aware of the case in which a home in North Baker burned and the Fire Department and Ambulance along with law enforcement couldn't get to the fire because a train was stopped and blocking all the access crossings. If you look at a map of Baker you will see that East Baker is similarly separated from all the Emergency Services except for US 12 - Railway Avenue and a slow route around the Baker Lake. A fire or wreck on US 12 would definitely impede Emergency Services. 4. For the above reasons I feel that improving Railway Ave. and Milwaukee Ave. are the most sensible solutions. 5. Also to be considered is the legal costs and complications. By using this route with the City of Baker's approval no easement or added legal work would be involved. <p><i>William L. Randash</i> William L. Randash, Fallon County Commission Chairman</p> <p><i>Steve Baldwin</i> Steve Baldwin, Fallon County Commission Member</p>	<p>Thank you for your comments. They are included in our study records.</p>



NO.	DATE / FROM	COMMENT	RESPONSE
3	<p>11-04-15</p> <p>William Randash</p> <p>Fallon County Commissioner</p>	 <p>November 4, 2015</p> <p>Corrina Collins Montana Department of Transportation</p> <p>Ms. Collins:</p> <p>Thank you for the opportunity for Fallon County to give feedback on the information provided in the Corridor Study and the information presented on October 20th in Baker.</p> <p>Here are the Commission's thoughts on the potential "solutions" that were presented by HDR at the meeting:</p> <p>3A We don't see any scenario where Fallon County would or could justify spending \$34+million on two alternate routes with overpasses. If MDT steps forward at some time in the future and is willing to pay, then discussions can be had, but on the shoulders of Fallon County it is not viable. We also have concerns about the ability to obtain ROWs on those routes which makes the scenario even less likely.</p> <p>3B Knowing that, the remaining "solutions" should be discussed and analyzed to see what has the most impact for the cost. Also, the "solutions" that are within MDT jurisdiction should also be further discussed. Specific items the Commission would like to pursue further include:</p> <ol style="list-style-type: none"> 1. Improve the bridge over Sandstone Creek 2. Improve pavement wherever deficient on Hwy 12 & 7 3. Place guardrail on highway clear zone 4. Improve pavement marking at 4 way stop 5. Flashing yellow at Shell Oil Road 6. Signage on horizontal curves <p>3C Alternatives presented that Fallon County would not be inclined to support at this time include:</p> <ol style="list-style-type: none"> 1. Traffic signal at 4 way 2. Traffic signal or roundabout at Shell Oil Road <p>Solutions that potentially would involve local funds/jurisdiction that Fallon County would like to pursue further include:</p> <ol style="list-style-type: none"> 1. Railroad Avenue Improvements 2. Milwaukee Avenue Improvements 	<p>Thank you for your comments. They are included in our study records.</p> <p>3A The two Quantm recommended alignments developed as part of the study, only the Quantm Alignment NW-5 (improvement option 15) includes a grade-separated overpass of the BNSF Railway. Quantm Alignment NE-5 does not intersect the railroad and therefore does not include a highway-railroad crossing.</p> <p>3B At this time, funding is not available to implement any of the improvement options identified by this study.</p> <p>3C A flashing yellow light at the MT 7/Shell Oil Rd/S-493 intersection was not an improvement option identified by the study. In general, the need for a flashing beacon would be based on the characteristic of factors such as traffic volumes and crash history. Based on a planning-level review of this intersection, the study did not identify the need flashing warning beacon. A more detailed traffic study would be required to determine if this type of traffic signal is justified at this particular location.</p> <p>Two separate intersection improvement options were identified at this intersection based on projected traffic growth and congestion. They include 1) a traffic signal and addition of a left-turn lane on MT 7 in the northbound direction, or 2) a single-lane roundabout. The level of traffic control for this intersection would be determined during project development. Any interim improvements would consider future project schedule to prevent unnecessary costs from being incurred.</p>



NO.	DATE / FROM	COMMENT	RESPONSE
		<p>3. Improve the turn in to the private oil field road</p> <p>Solutions that potentially would involve local funds/jurisdiction that Fallon County would not be inclined to support or at minimum would require additional discussion and consideration include:</p> <ol style="list-style-type: none"> 1. Extend pavement on Pennel Road 2. Railroad Avenue couplet 3. Improve private oil field road <p>3D Unfortunately, implementation of the measures listed that Fallon County can support does not cure the major issue of the trains blocking the highway. MDT is very aware of the difficulty of dealing with BNSF on this issue and communication clearly has not worked to date. Fallon County would like to solicit MDT's ongoing support to explore any and all avenues to communicate and find a solution with BNSF. This is an issue that will take constant work to try and resolve.</p> <p>Respectfully,</p>  <p>Fallon County Commission</p> <p>Cc: Shane Mintz, MT Department of Transportation</p>	<p>3D MDT is aware of the Commission Meeting held on November 12th, 2013 where local officials and citizens met with BNSF safety director, Rick Van Wey, to address the safety concerns surrounding trains blocking the railroad crossings and obstructing emergency vehicle responses. The issue stemmed from a September 29, 2013 incident where a train blocked the railroad preventing a fire truck from responding to a fire at a residential structure north of the railroad tracks and subsequently the home was destroyed.</p> <p>As documented in the Fallon County Times article dated March 7, 2014, a proposed solution was offered by BNSF that includes a change to the railroad crossing located at N. 3rd St. West. The proposed solution involves moving the switch that moves trains from the siding to the mainline and is currently located on the west side of the N. 3rd St. West at-grade crossing to the east of the crossing. This would remove the siding track (and industrial spur track) at this crossing and reduce the length of the siding. It was noted that this proposed solution would preclude trains sitting idle at the N. 3rd St. West crossing as the only delays that would be experienced would be from moving trains. Once the train has passed, the mainline crossing would re-open.</p> <p>Improvement options that include removing or relocating BNSF Railway tracks were not explored as part of this study as this is outside the jurisdiction of MDT. Modifications to the N. 3rd St. West at-grade crossing are not within MDT jurisdiction. Implementation of this crossing improvement will require continued coordination between BNSF Railway, Fallon County and the City of Baker to secure funding to move the project forward.</p>



NO.	DATE / FROM	COMMENT	RESPONSE
5	11-09-15 Ken Griffith	<div style="text-align: center;"> Montana Department of Transportation Baker Corridor Planning Study </div> <div style="text-align: center; margin-top: 10px;"> </div> <div style="text-align: center; margin-top: 10px;"> <h3>Informational Meeting #2</h3> <p>Tuesday, March 20th, 2015 Fallon County Fairgrounds Exhibit Hall, Baker, MT</p> </div> <div style="background-color: black; color: white; padding: 2px; margin-top: 10px;"> MDT Invites Your Comments: </div> <div style="margin-top: 10px;"> <div style="display: flex; align-items: center;"> <div style="background-color: black; color: white; padding: 5px; margin-right: 10px;">5A</div> <div style="border: 1px solid black; padding: 5px; width: 90%;"> <p>#7 MT 7 Shell Oil Rd S-493 Intersection I believe a roundabout is not a very good idea for this intersection because of all of the oversized loads that go through there. The roundabouts are not designed for these loads.</p> <p>#8 A turn lane off Hwy 12 would help traffic flow. You now must use the oncoming lane to turn off Hwy with a semi.</p> </div> </div> </div> <div style="margin-top: 20px;"> <p>To receive further study information, please provide your contact information:</p> <p>Name: <u>Ken Griffith</u></p> <p>Address: <u>P.O. Box 1137</u> <u>Baker MT 59313</u></p> <p>Email: <u>Kgriff@mdt.mt.gov</u></p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; width: fit-content; margin-left: auto;"> <p>Please leave your comments with staff at the meeting, or mail to:</p> <p style="text-align: center;">Corrina Collins Montana Department of Transportation 2960 Prospect Avenue PO Box 201001 Helena, MT 59620-1001</p> <p style="text-align: center;">Please indicate comments are for the Baker Corridor Planning Study. Please submit your comments by November 6th, 2015.</p> </div> <div style="text-align: center; margin-top: 10px;"> </div>	<p>Thank you for your comments. They are included in our study records.</p> <div style="margin-top: 20px;"> <div style="display: flex; align-items: center;"> <div style="background-color: black; color: white; padding: 5px; margin-right: 10px;">5A</div> <div> <p>Roundabouts can be designed to accommodate oversized loads by modifying the geometrics of the center island and roundabout approaches. Posted speed limits would also be taken into consideration as a design speed is chosen for a rural setting such this intersection.</p> <p>If intersection improvements were to be advanced at this location, a signal warrant analysis and preliminary roundabout layout would be examined first to identify the most feasible option moving forward.</p> </div> </div> </div>



NO.	DATE / FROM	COMMENT
1	03-03-15 Matt Rugg Montana Fish, Wildlife & Parks	<div style="text-align: center;">  <p>Montana Fish, Wildlife & Parks</p> <p>Mathew Rugg Fisheries Biologist 907 N. Kendrick Ave., Glendive, MT 59330 Phone: (218) 205-6132, Email: mrugg@mt.gov</p> </div> <p>March 3, 2015</p> <p>Corrina Collins Montana Department of Transportation Rail, Transit, & Planning Helena, MT 59602</p> <p>SUBJECT: Baker Corridor Planning Study</p> <p>Dear Ms. Collins:</p> <p>I have reviewed the Baker Corridor Planning Study as it relates to stream function and fisheries impacts and concerns. Most of the streams within the study area are either towards the head of the drainage, and/or have minimal fisheries use. However, there is some fish use within the study area. I would like to provide comment on the language regarding the use of culverts for stream crossings (Attachment 8 Crucial Area Planning System Data). I suggest the following language be included:</p> <p><i>Culverts should be sized to span the bankfull channel width on fish-bearing streams. Culverts should also be embedded a minimum of 20% of the culvert rise. Studies have shown that culverts embedded at least 20% reduce the potential for the culvert to become a barrier to fish movements.</i></p> <p>Please feel free to contact me with any additional questions regarding stream function and/or fish use within the water bodies in the study area.</p> <p>Respectfully,</p>  <p>Mathew Rugg Region 7 Fisheries Biologist</p>



NO.	DATE / FROM	COMMENT
2	03-05-15 Steve Baldwin Fallon County Commissioner	<div style="text-align: right; margin-bottom: 10px;"> Montana Department of Transportation <i>Baker Corridor Planning Study</i> BAKER CORRIDOR PLANNING STUDY </div> <div style="text-align: center;"> <h3>Informational Meeting</h3> <p>Thursday, March 5th, 2015 Fallon County Fairgrounds Exhibit Hall, Baker, MT</p> </div> <div style="background-color: black; color: white; padding: 2px; margin: 10px 0;"> MDT Invites Your Comments: </div> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p><i>CONTINENTAL Resources</i></p> <p><i>Naled Chemical</i></p> <p><i>Farmers Elevator Prairie Fuels TRUCK</i></p> <p><i>LANGUAGE FROM CORRIDOR STUDY TO BYPASS STUDY?</i></p> <p><i>Detail on Advertising</i> <i>traffic problems?</i></p> <p style="text-align: right;"><i>Feasibility</i></p> </div> <div style="margin-top: 20px;"> <p>To receive further study information, please provide your contact information:</p> <p>Name: <u><i>Steve Baldwin</i></u></p> <p>Address: <u><i>10 Box 913</i></u> <u><i>Baker MT 59813</i></u></p> <p>Email: <u><i>baldwins@falloncounty.MT</i></u></p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; text-align: center;"> <p>Please leave your comments with staff at the meeting, or mail to:</p> <p>Jon Schick HDR Engineering, Inc. 1715 South Reserve Street, Ste. C Missoula, MT 59801</p> <p>Please indicate comments are for the Baker Corridor Planning Study. Please submit your comments by March 19th, 2015.</p> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;">   </div>



NO.	DATE / FROM	COMMENT
3	03-09-15 Robert Cole U.S. Army Corps of Engineers	<p>From: Cole, Robert H NWO <Robert.H.Cole@usace.army.mil> Sent: Monday, March 09, 2015 11:23 AM To: Schick, Jon; Collins, Corrina Subject: Baker Study (UNCLASSIFIED)</p> <p>Classification: UNCLASSIFIED Caveats: NONE</p> <p>Jon and Corrina,</p> <p>During the meeting the mitigation site was touched on. As a reminder MTDOT does not have an approved mitigation bank. Until the bank has been finalized, mitigation will need to be addressed for each project constructed.</p> <p>Robert Cole Regulatory Project Manager 2602 1st Street North, Room 309 PO Box 2256 Billings, MT 59103 (406) 657-5910</p> <p>Classification: UNCLASSIFIED Caveats: NONE</p>



NO.	DATE / FROM	COMMENT
4	Mindy McCarthy Montana Department of Environmental Quality	<p>From: McCarthy, Mindy <MMcCarthy3@mt.gov> Sent: Monday, March 16, 2015 2:17 PM To: Schick, Jon; Collins, Corrina Subject: Baker Corridor Study - Environmental Scan Info</p> <p>Hello-</p> <p>I reviewed the CD provided with the environmental information for the study area and have no comments. Thanks for including me in your process and please keep me informed as you move forward with the study.</p> <p>Thanks- Mindy</p> <p>----- Mindy McCarthy Water Quality Planning Bureau Montana DEQ mmccarthy3@mt.gov 406.444.6754</p>

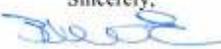


NO.	DATE / FROM	COMMENT
5	<p>03-19-15</p> <p>Brent Esmoil</p> <p>U.S. Fish and Wildlife Service</p>	<div style="text-align: center;">  <p>United States Department of the Interior Fish and Wildlife Service Ecological Services Montana Field Office 585 Shepard Way, Suite 1 Helena, Montana 59601-6287 Phone: (406) 449-5225 Fax: (406) 449-5339</p>  </div> <p>M.44 MDT (I) 06E11000-2015-TA-0166</p> <p style="text-align: right;">March 19, 2015</p> <p>Jon Schick HDR Project Manager 1715 South Reserve Street, Suite C Missoula, MT 59801-4708</p> <p>Dear Mr. Schick:</p> <p>This is in response to your February 13, 2015 letter regarding the Montana Department of Transportation’s (Department) Baker Corridor Planning Study. The intent of the study is to provide a planning-level overview of resources and determine potential constraints and opportunities for the Baker Corridor Planning Study. The study is focused in Fallon County around the town of Baker, Montana. Specifically, this includes a 53 square mile area from Reference Marker (RM) 79 to RM 88 of US Highway 12, and RM 31.9 to RM 37.6 of MT Highway 7. The Service’s Montana Field Office received your letter on February 13, 2015. These comments have been prepared under the authority of and in accordance with the provisions of the Endangered Species Act (ESA), as amended (16 U.S.C. 1531 et. seq.), and the Migratory Bird Treaty Act of 1918 (MBTA), as amended (16 U.S.C. 703 et. seq.).</p> <p>The federally listed threatened or endangered species that may occur in Fallon County are the endangered whooping crane (<i>Grus americana</i>), the threatened red knot (<i>Calidris canutus rufa</i>), the proposed northern long-eared bat (<i>Myotis septentrionalis</i>), and candidate species greater sage-grouse (<i>Centrocercus urophasianus</i>), and Sprague’s pipit (<i>Anthus spragueii</i>). As such, the Service strongly recommends that the Department contact the Montana Department of Fish, Wildlife and Parks at 1420 East Sixth Ave., P.O. Box 200701, Helena, Montana 59620-0701, (406) 444-2535 or the Montana Natural Heritage Program, 1515 East 6th Avenue, Box 201800, Helena, Montana 59620-1800, (406) 444-5354. Both of these agencies may be able to provide updated, site-specific information regarding greater sage-grouse (hereafter sage grouse) locations, as well as all other fish, wildlife, and sensitive plant resources occurring in the study area.</p> <p>A portion of the sage grouse Cedar Creek Core Area extends into the corridor study area, as well as there being several sage grouse leks outside of core habitat that surround the study area (Montana Natural Heritage Program database 2015). Consequently, the Service would like to remind you that the Department has obligations under Governor Bullock’s Executive Order (EO) No. 10-2014 (signed September 9, 2014), with regards to sage grouse conservation. The EO delineated sage grouse core areas, connectivity areas, and general habitat in Montana; note that both core and general habitat occurs in the corridor study area. We recommend that impacts to sage grouse, including all habitats, be avoided to the extent possible, and that unavoidable impacts be minimized to the extent possible. Impact avoidance and minimization priority should generally first be directed to core habitat, although other locally important habitats and features warranting prioritization, such as leks, may occur in non-core habitat.</p>

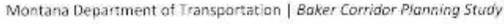


NO.	DATE / FROM	COMMENT
		<p>The U.S. Geological Survey published a 2014 report evaluating effective lek buffer distances, and indicates an effective buffer range of 3.1 to 5 miles for both surface disturbance and linear features (e.g., roads, powerlines; Manier et al. 2014). In addition to EO considerations (as well as applicable Bureau of Land Management [BLM] Resource Management Plan or other interim guidance), we recommend that any project that may result from this corridor planning study implement this recent buffer information as well as applicable conservation measures recommended in the U.S. Fish and Wildlife Service’s Conservation Objectives Report (2013). Incorporation of this information into corridor planning may assist in avoiding or minimizing adverse effects to sage grouse populations and habitat. We recommend that this information, along with a compensatory mitigation proposal commensurate with the degree of impacts that would offset any unavoidable impacts remaining after application of avoidance and minimization measures, accompany and inform any effects analysis for any project that results from this corridor planning study. We refer you to the Service’s September 2014 Greater Sage-Grouse Range-wide Mitigation Framework for further guidance regarding appropriate mitigation.</p> <p>Examples of sage grouse conservation recommendations from Manier et al. (2014) and USFWS (2013) relating to infrastructure that may apply to the subject corridor study include the following:</p> <ul style="list-style-type: none"> • There should be no new development of infrastructure corridors within core areas. Designated, but not yet developed infrastructure corridors should be re-located outside of core areas unless it can be demonstrated that these corridors will have no impacts on the maintenance of neutral or positive sage grouse population trends and habitats. • Avoid construction of infrastructure in sage grouse habitat, both within and outside of core areas. • Avoid surface disturbance and construction of linear features within 3.1 to 5 miles of leks. • Mark or remove fences within 1.2 to 3.2 miles of leks on flat or rolling terrain to reduce sage grouse mortality associated with collisions. Fences can be deleterious to sage grouse populations and habitats, with threats including habitat fragmentation and direct mortality through strikes (Stevens et al. 2012), but can also improve habitat conditions for sage grouse (e.g., by protecting riparian areas providing brood-rearing habitats from overgrazing). The assessment of the impact or benefit of fences must be made considering local ecological conditions and the movement of sage grouse within local areas (Stevens et al. 2012). Unnecessary fences should be removed. • Construction of tall structures, such as utility poles and power transmission lines, within two to five miles of leks should be avoided or the features that they convey should be buried (if technically feasible), and disturbed habitat should be restored. If avoidance is not possible, consolidate new structures with existing features and/or preclude development of new structures within locally important sage grouse habitats. Consolidation with existing features should not result in cumulative corridor width of greater than 0.12 mile. • Remove transmission lines and roads that are duplicative or are not functional. • Transmission line towers should be constructed to severely reduce or eliminate nesting and perching by avian predators, most notably ravens, thereby reducing anthropogenic subsidies to those species. • Within 3.1 to 5 miles of leks, the Department should look to minimize road densities where possible, as the intermittent noise associated with roads has been associated with significant reductions in lek attendance by sage grouse (Blickley et al. 2012 in Manier et al. 2014:5). • Infrastructure corridors should be designed and maintained to preclude introduction of invasive plant species. • Existing restrictions limiting use of roads should be enforced.



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		<ul style="list-style-type: none"> • Avoid installation of compressor stations (and facilities such as crushing plants, etc.) in core areas or other sage grouse habitats where sage grouse would be affected by noise and operation activities. • Remove (or decommission) non-designated roads within sagebrush habitats. <p>For stream channel crossings, the Service encourages the use of single span bridges whenever feasible. These structures generally maintain the stream’s long-term aquatic functions because there is natural streambed material through the crossing and, given adequate bridge length, the stream can function naturally and unimpeded throughout that stretch. For crossings where culverts are proposed, we suggest embedding them enough to allow natural streambed material to deposit in the bottom of the culverts to facilitate passage of aquatic organisms. The Service also recommends keeping temporary disturbances to stream channels to the minimum extent and duration possible, with as much occurring “in the dry” as possible. This would reduce disruptions to the stream during construction, resulting in fewer short-term impacts to aquatic species relative to stream bed and bank disturbance and sediment inputs.</p> <p>Thank you for the opportunity to comment on the Baker Corridor Planning Study. We appreciate your efforts to consider and conserve fish and wildlife resources, including threatened and endangered species. If you have questions regarding this letter, please contact Mike McGrath, of my staff at (406) 449-5225, extension 201.</p> <p style="text-align: center;">Sincerely,  for Jodi L. Bush Field Supervisor</p> <p>Cc: Sheila Ludlow, Montana Department of Transportation, Helena, MT</p> <p>Literature Cited Manier, D. J., Bowen, Z. H., Brooks, M. L., Casazza, M. L., Coates, P. S., Deibert, P. A., Hanser, S. E., and Johnson, D. H. 2014. Conservation buffer distance estimates for Greater Sage-Grouse—A review: U.S. Geological Survey Open-File Report 2014-1239, 14 p., http://dx.doi.org/10.3133/ofr20141239.</p> <p>Stevens, B. S., J. W. Connelly, and K. P. Reese. 2012. Multi-scale assessment of Greater sage-grouse fence collision as a function of site and broad scale factors. <i>Journal of Wildlife Management</i> 76:1370-1380.</p> <p>U.S. Fish and Wildlife Service. 2013. Greater Sage-grouse (<i>Centrocercus urophasianus</i>) Conservation Objectives: Final Report. U.S. Fish and Wildlife Service, Denver, CO. February 2013.</p> <p>U.S. Fish and Wildlife Service. 2014. Greater Sage-Grouse Range-Wide Mitigation Framework, Version 1.0, 27 pages.</p>



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6	03-19-15 Drury Phebus	<div style="text-align: right;">   </div> <p style="text-align: center;">Informational Meeting</p> <p style="text-align: center;">Thursday, March 5th, 2015 Fallon County Fairgrounds Exhibit Hall, Baker, MT</p> <p>MDT Invites Your Comments:</p> <p><i>This is the third "oil boom" Baker has experienced, after the production phase has been completed, 5 to 10 years, Baker will revert to a sleepy, small town life style.</i></p> <p><i>A truck by-pass road west side of Hwy #17 would divert trucks off Highway #17 and allow #12 truck traffic a straight shot to turn North or South at the Westside bypass.</i></p> <p><i>This would also allow a new Railroad Crossing which is needed while trains block the City Crossing.</i></p> <p><i>Small towns get away intentional bypasses the City areas. the natives have invested their time and money, its necessary to have an increase in traffic to build out town and have lived in Baker for 92 years, its not kidd shit.</i></p> <div style="display: flex; justify-content: space-between;"> <div data-bbox="787 1112 1134 1339"> <p>To receive further study information, please provide your contact information:</p> <p>Name: <u>DRURY C. PheBUS</u></p> <p>Address: <u>P.O. Box 901</u> <u>Baker, Mt 59313</u></p> <p>Email: <u>dfebus@midrivers.com</u></p> </div> <div data-bbox="1144 1096 1533 1339" style="border: 1px solid black; padding: 5px;"> <p>Please leave your comments with staff at the meeting, or mail to:</p> <p style="text-align: center;">Jon Schick HDR Engineering, Inc. 1715 South Reserve Street, Ste. C Missoula, MT 59801</p> <p>Please indicate comments are for the Baker Corridor Planning Study. Please submit your comments by March 19th, 2015.</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;">   </div>

NO.	DATE / FROM	COMMENT
		<p>The map displays the Baker Corridor Planning Study area. A red outline indicates the 'Study Area Boundary'. A dashed line shows the 'City Boundaries'. Major roads are labeled, including Sunset Trl, Cluster Ave W, and Baker Municipal Airport. The map also shows various Right-of-Way (RM) lines and BNSF Railways. A legend in the top right corner defines the symbols used on the map.</p>



NO.	DATE / FROM	COMMENT
7	07-27-15 Travis Mashak Farmers Union Oil	<p>From: Travis Mashak <cenexgm@midrivers.com> Sent: Monday, July 27, 2015 4:32 PM To: Schick, Jon Subject: RE: MDT Baker Corridor Planning Study mailing list</p> <p>Follow Up Flag: Follow up Flag Status: Flagged</p> <p>Jon Thank you for the email, we look forward to the information that you are providing. Our company is in fact wrestling with the decisions of expanding and building new facilities. Farmers Union Oil has been serving Baker MT at this location since 1959, unfortunately in the same building since 1959. Two main parts of our business are a gas station with diesel islands and a tire service, which as you can understand, thrives off of the traffic patterns. I would appreciate a few moments of your time to speak with you. We are currently planning a remodel/new building project to start next spring. Thank you again, and I look forward to speaking with you in the future.</p> <p><i>Travis Mashak</i> General Manager Farmers Union Oil - Baker Montana 303 W. Montana Ave P.O. Box 1000 Baker MT 59313 cenexgm@midrivers.com <i>Office:</i> 406-778-2519 <i>Fax:</i> 406-778-2210 <i>Cell:</i> 406-978-2522</p> <hr/> <p>From: Schick, Jon [mailto:Jon.Schick@hdrinc.com] Sent: Friday, July 24, 2015 7:05 AM To: cenexgm@midrivers.com Cc: Corrina Collins <ccollins@mt.gov> Subject: MDT Baker Corridor Planning Study mailing list</p> <p>Hello Travis, Thanks for providing your email and expressing interest in the planning study. If you could provide me your mailing address I will put you on our mailing list to receive the upcoming newsletter.</p> <p>Thanks,</p> <p>Jon Schick, M.S. Transportation Planner</p> <p>HDR 1715 South Reserve St. Missoula, MT 59801-4708 D 406.532.2231 M 406.532.2200 jon.schick@hdrinc.com</p> <p>hdrinc.com/follow-us</p>



Memorandum

Project:	Baker Corridor Planning Study
Subject:	Informational Meeting #1 Summary
Date:	Tuesday, March 10, 2015
To:	Corrina Collins, MDT Project Manager
From:	Jon Schick, HDR Project Manager

Introduction:

The Baker Corridor Planning Study Informational Meeting #1 was held in Baker, MT at the Fallon County Fairgrounds Exhibit Hall on March 5th, 2015 from 6 PM to 8 PM. The following team members and MDT representatives were present at the meeting:

Team Member	Affiliation
Corrina Collins	MDT – Planning Division
Vicki Crnich	MDT – Planning Division
Shane Mintz	MDT – Glendive District Administrator
Jim Frank	MDT – Glendive District
Tom Roberts	MDT – Glendive District
Bill Randash	Fallon County Commissioner
Steve Baldwin	Fallon County Commissioner
Chuck Lee	Fallon County DES/911 Coordinator
Faron Henderson	Fallon County/City of Baker Contract Planner
Jon Schick	HDR Engineering
Mick Johnson	HDR Engineering

Seven (7) community members attended the informational meeting and provided information on the meeting sign-in sheet. Copies of the meeting sign-in sheets are attached to this memorandum.

Media Coordination and Newsletter:

A press release advertising the March 5th Informational Meeting was developed and submitted to various media outlets on February 20th, 2015. Media outlets included the Baker Chamber of Commerce, Miles City Chamber of Commerce, Fallon County Times, Miles City Star, and several area television and radio stations. The Informational Meeting #1 was advertised in the Fallon County Times on February 20th and again on February 27th prior to the meeting. Copies of the press release and distribution email are attached to this memorandum.

A study newsletter was developed and hard copies were distributed to Fallon County (75 copies) as well as mailed to project stakeholders. The newsletter was posted on the study website several weeks prior to the meeting and is currently available on the website.



Presentation:

A presentation and discussion was facilitated by Jon Schick. The presentation began at approximately 6:15 PM. A PowerPoint presentation was provided to the meeting attendees followed by a question/answer and discussion period. A copy of the presentation is attached to this memorandum. The presentation agenda included the following topics:

Presentation

- Title VI Considerations
- Introduction of the Project Team
- Introduction of the Corridor Planning Process
- Discussion of the public involvement process
- Study area boundary
- Study schedule
- Identified stakeholders
- Existing conditions within the study area
 - Socio-economics
 - Transportation
 - Environmental
- Overview of Quantm alignment planning software
- Next steps and conclusion

Discussion Period

Discussion:

An open discussion was held following the PowerPoint presentation. Topics of concern are listed below.

Truck Traffic Volumes

- Truck traffic volumes have seemingly increased in the study area in recent years, particularly following the recent reconstruction of Highway 323 south of Baker.
- Large loads are permitted on MT 7 and travel north from Ekalaka.
- The 3 traffic growth rate scenarios were briefly discussed. It was concluded that the project team is comfortable with the high growth scenario representing a 'worst case' scenario which would accommodate system wide traffic volume increases throughout the study area.

Traffic

- The traffic analysis is based on current 2013 traffic volumes.

Oil and Gas Development

- Clarification was made that all of the documented oil/gas wells, as shown on the map in the presentation, would be accounted for in the Quantm model through developing a buffer distance around each well. The wells and associated footprints vary in size. A representative buffer distance has been applied to each well. For larger footprints, aerial imagery will be used to delineate the well footprint.



- The Bakken News is a publication that can provide insight and background for regional oil and gas trends and developments.

Environmental Considerations

- The presence of Greater Sage-grouse within the Study Area was discussed. It was noted that spatial data on their breeding/nesting areas, if available, will be considered in the Quantm model. Also, it was noted that the topic would be discussed and considered by the resource agencies at the upcoming resource agency meeting.

Project Development Process

- Clarification was made that, in addition to examining alternate alignments, the study will examine short- and long-term improvement options that address the identified needs of the transportation system.
- The study is currently at the stage of documenting existing conditions and determining overall needs. There is currently no new alignment option under consideration. Consideration of any new alignment options will undergo a detailed screening process to ensure all potential locations within the study area are examined.

Stakeholder Involvement

- A suggestion was made to reach out to the safety representatives of the oil companies for future coordination. They are in a position to disseminate relevant information to the applicable entities within their respective companies.
- An organization of landowners has been established in the region in order to more effectively negotiate with oil companies seeking easements on private property. It was suggested to include this group, although a name of the organization was not provided.

Area Development

- A new subdivision is currently in the approval process and is located at the southwest boundary of the Baker city limits.
- The City has annexed an area to include this new subdivision and the study area maps need to be updated to show the new city limit boundary.

Written Comments:

One (1) written comment was received at the meeting. It contained four suggested stakeholders (Continental Resources, Nalco Chemical, Farmers Elevator, and Prairie Fuels) and a comment regarding language used on future advertising.

Meeting attendees were encouraged to take home the comment forms and submit to the project team at a later date. The comment form contains the request to submit comments by March 19th, 2015.



Informational Meeting

**Discuss the Baker Corridor
Planning Study
Thursday, March 5, 2015 6:00 P.M.
Fallon Co. Fairgrounds Exhibit Hall
3440 Montana 7, Baker, MT**

The Montana Department of Transportation (MDT) will introduce the Baker Corridor Planning Study and request public feedback. The study will identify potential improvement options for the study area, which includes the city of Baker. The purpose of the meeting is to inform the public about the scope and purpose of the corridor study, present information about existing and projected conditions, and request feedback about opportunities and constraints affecting potential transportation improvement options within the study area.

The Baker Corridor Planning Study is a pre-environmental study that allows for early planning-level coordination with the public, stakeholders, environmental resource agencies, and other interested parties. The study will assist in facilitating a smooth and efficient transition from transportation planning to future project development and environmental review, if any, based on need and funding availability. This is a planning-level study and will not include design or construction.

The meeting is open to the public and attendance is encouraged. MDT attempts to provide accommodations for any known disability that may interfere with a person's participation in any department service, program or activity. For reasonable accommodations to participate in this meeting, please contact Jon Schick at (406) 532-2231 at least two days before the meeting. For the hearing impaired, the TTY number is (406) 444-7696 or (800) 335-7592, or Montana Relay at 711. Alternative accessible formats of this information will be provided upon request.

Comments may be submitted in writing at the meeting, by mail to Jon Schick, HDR Engineering, 1715 South Reserve St, Suite C, Missoula, MT 59801; by email to jon.schick@hdrinc.com; or online at www.mdt.mt.gov/mdt/comment_form.shtml. Please indicate comments are for the Baker Corridor Planning Study.

From: Grant, Paul <pgrant@mt.gov>
Sent: Friday, February 20, 2015 7:31 AM
To: ASHTO; Baker Chamber of Commerce; Fallon County Times; KFLN-AM/KJJM-FM; KFLN-AM/KJJM-FM; KXGN; TYSON FISHER; CITY CHAMBER OF COMMERCE MILES (mileschamber@mileschamber.com); KATL-AM; KIKC-AM-FM; kkry hot country 92.5; Miles City Star
Cc: Collins, Corrina; Schick, Jon; Strizich, Carol; Zanto, Lynn (MDT); Mintz, Shane; Frank, James; Heidner, Steven; Grant, Paul; Marosok, Lauren; O'Brien, Anna; Ryan, Lori; Fallon County Commissioners; Road Supervisors
Subject: MDT schedules an informational meeting to discuss the Baker Corridor Planning Study

February 20, 2015

FOR IMMEDIATE RELEASE

For more information:
Lori Ryan, MDT Public Information Officer, (406) 444-6821

MDT schedules an informational meeting to discuss the Baker Corridor Planning Study

Baker - The Montana Department of Transportation (MDT), in coordination with Fallon County and the City of Baker, and in partnership with the Federal Highway Administration (FHWA), is conducting an informational meeting to introduce the Baker Corridor Planning Study and request public feedback. The study will identify potential improvement options for the study area, which includes the city of Baker. The purpose of the meeting is to inform the public about the scope and purpose of the corridor study, present information about existing and projected conditions, and request feedback about opportunities and constraints affecting potential transportation improvement options within the study area. The meeting will be held on Thursday, March 5, 2015, at the Fallon County Fairgrounds Exhibit Hall, 3440 Montana 7, in Baker, MT. A presentation will begin at 6:00 p.m.

The Baker Corridor Planning Study is a pre-environmental study that allows for early planning-level coordination with the public, stakeholders, environmental resource agencies, and other interested parties. The study will assist in facilitating a smooth and efficient transition from transportation planning to future project development and environmental review, if any, based on need and funding availability. This is a planning-level study and will not include design or construction.

Community participation is a very important part of the process, and the public is encouraged to attend. Verbal and written comments may be presented at the meeting. Written comments may also be submitted by mail to Jon Schick, HDR Engineering, 1715 South Reserve St, Suite C, Missoula, MT 59801; by email to jon.schick@hdrinc.com; or online at

http://www.mdt.mt.gov/mdt/comment_form.shtml

Please indicate comments are for the Baker Corridor Planning Study.

MDT attempts to provide accommodations for any known disability that may interfere with a person's participation in any service, program or activity of the department. If you require reasonable accommodations to participate in this meeting, please call Jon Schick at (406) 532-2231 at least two days before the meeting. For the hearing impaired, the TTY number is (406) 444-7696 or 1-800-335-7592, or call Montana Relay at 711. Alternative accessible formats of this information will be provided upon request.

Informational Meeting

Thursday, March 5th, 2015
Fallon County Fairgrounds Exhibit Hall, Baker, MT

NAME:	TITLE:	ADDRESS:	CITY, STATE, ZIP CODE:	EMAIL:
Corrina Collins	MDT Planning	2701 Prospect	Helena MT	ccollins@mdt.gov
Shane Mintz	MDT A Landline	Wlandline	Wlandline, MT	smintz@mt.gov
Randy Hanson	Farmer	Box 94	Willard, MT	Willard@midrivers.com
Bill Randal	Commissioner	Box 1002	BAKER, MT	fallon falloncc@midrivers.com
Tom Roberts	MDT Miles City	Miles City	Miles City, MT 59103	troberts@mdt.gov
Faron Henderson	Contract Planner	Box 8 Badger Drive	Townsend, MT	faroh@outlook.com
Steve Baldwin	Fallon County	PO Box 640	Baker MT	baldwins@falloncounty.net
Chuck Lee	DES/911 Coordinator	PO Box 106	~ ~	chucklee@hofmail.com
VICKI CRNICH	MDT PLANNING	2760 PROSPECT	HELENA, MT	vcrnich@mt.gov
Brenda Dietz		PO Box 239	Baker	cbdietz@midrivers.com
Nicole Schuler	Executive Director Chamber	PO Box 849	Baker	bakerchamber@midrivers.com
Marni Rose		PO Box 105	Willard MT	tmr@midrivers.com
Mick Johnson	HDR	2913 Millennium Circle	Billings, MT	mick.johnson@hdrinc.com



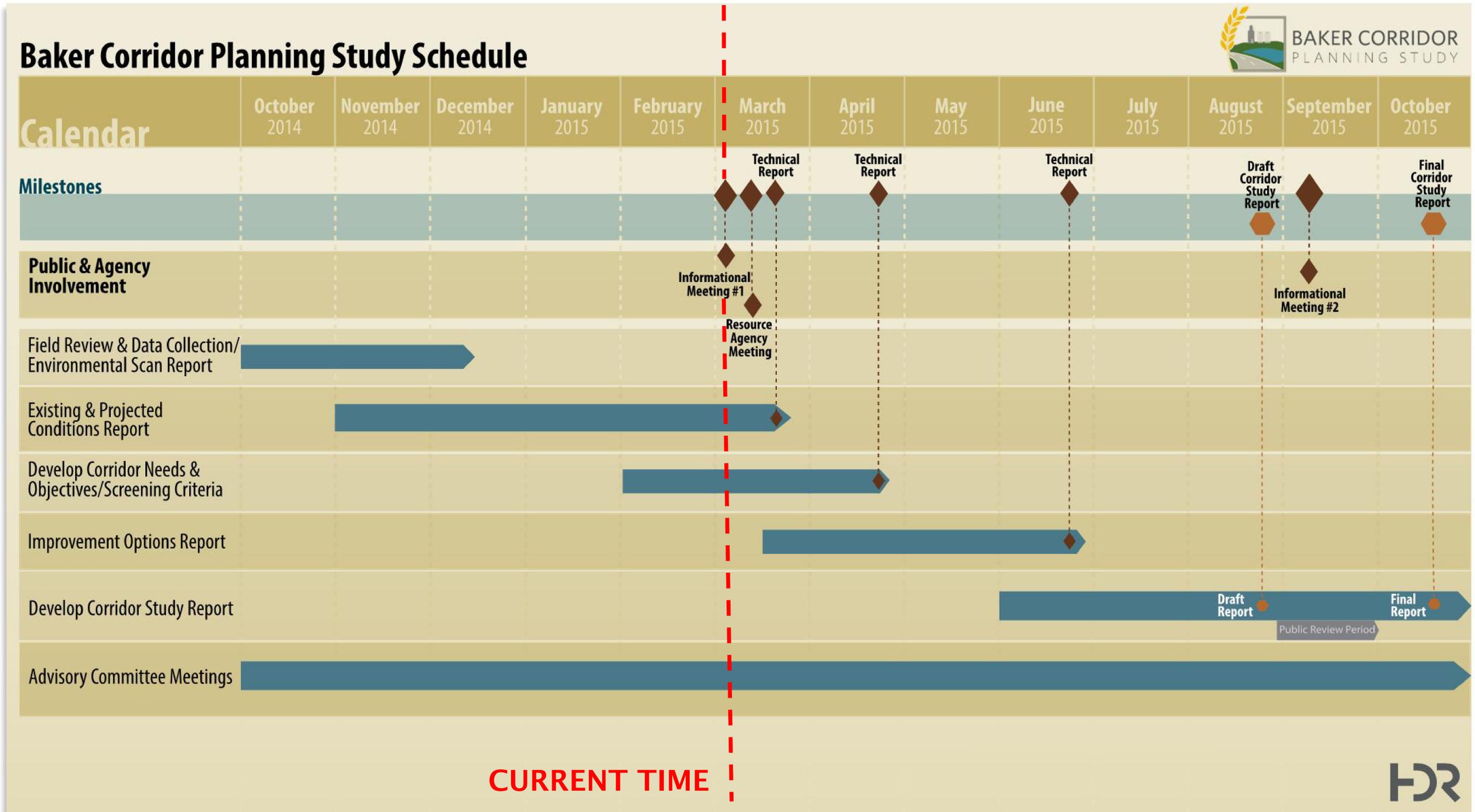
BAKER CORRIDOR PLANNING STUDY

WELCOME

INFORMATIONAL MEETING #1

March 5, 2015
Fallon County Fairgrounds
Exhibit Hall

STUDY SCHEDULE





CORRIDOR PLANNING STUDIES

- Are a Pre-NEPA/MEPA* planning study
- Develop a high level analysis of study area conditions
- Define transportation issues and areas of concern
- Provide for early identification of potential social, economic, and environmental impacts
- Identify a range of transportation improvement strategies
- Facilitate continued public, resource agency, and stakeholder participation

CORRIDOR PLANNING STUDIES ARE NOT:

- A preliminary engineering or final design project
- A construction project or right-of-way acquisition
- An environmental compliance document

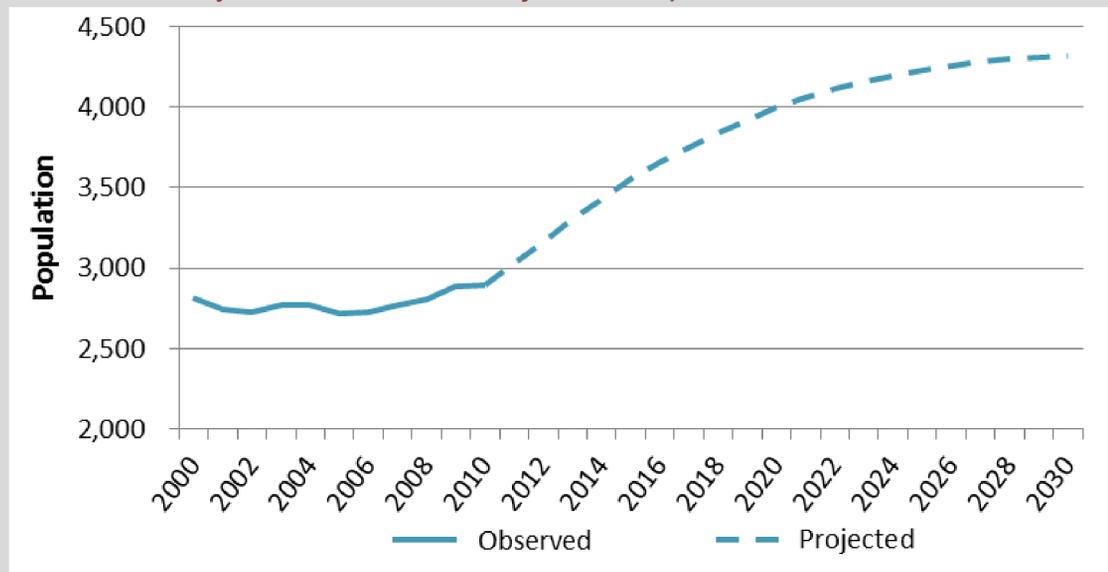
* NEPA = National Environmental Policy Act
MEPA = Montana Environmental Policy Act

EXISTING CONDITIONS

Population

- Population estimates (2013):
 - Fallon County: 3,085
 - City of Baker: 1,812
 - 60% of Fallon County resides in City of Baker
 - City of Baker population grew by 3% over past decade

Fallon County Observed and Projected Population



- The Montana Department of Commerce estimates the Fallon County population to grow by approximately 1,500 by the year 2030

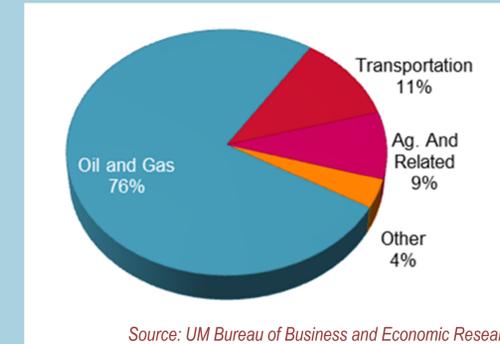
Employment & Economy

Fallon County Employment by Industry (2009-2013)

Industry	Estimate
Agriculture, forestry, fishing, and hunting	25.7%
Construction	8.5%
Manufacturing	2.9%
Wholesale Trade	3.1%
Retail Trade	7.4%
Transportation and warehousing, and utilities	6.1%
Information	2.7%
Finance and insurance, and real estate and rental and leasing	4.7%
Professional, scientific, and management, and administrative and water management services	5.5%
Educational services, and health care and social assistance	19.7%
Arts, entertainment, and recreation, and accommodation and food services	6.1%
Other services, except public administration	3.4%
Public Administration	4.1%

Source: American Community Survey (ACS) 2008-2012 5-Year Estimates

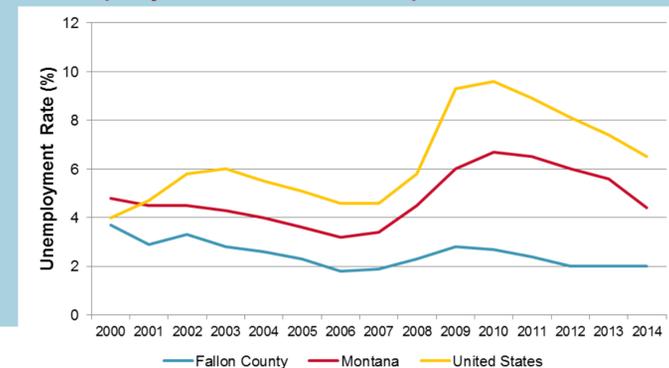
Economic Base of Fallon County, Montana (2012)



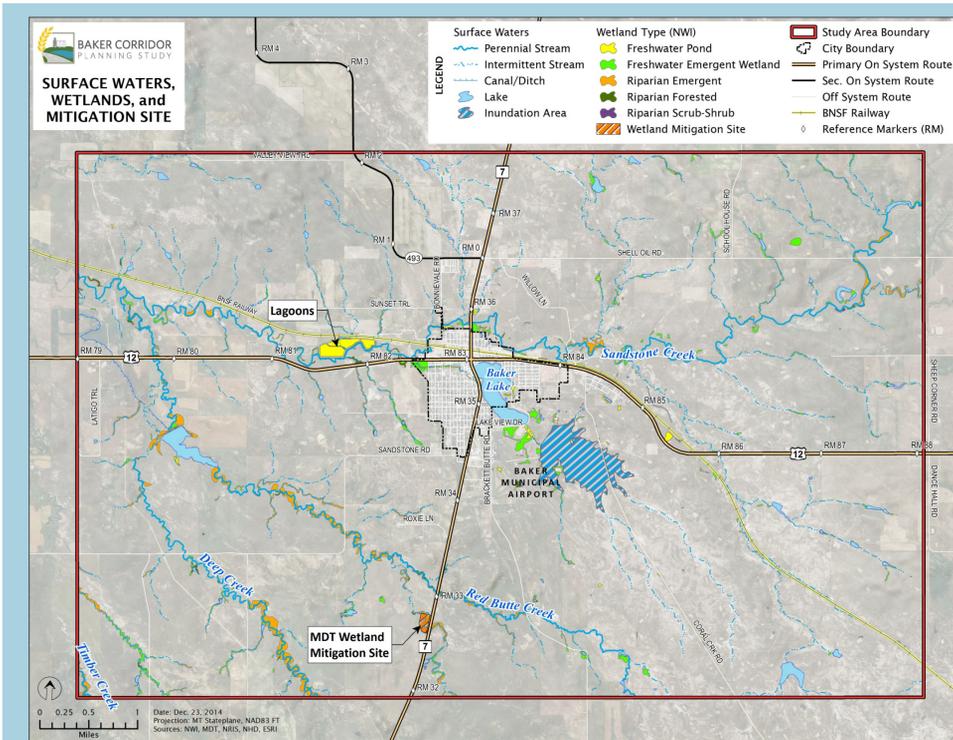
Source: UM Bureau of Business and Economic Research

- Unemployment rates in Fallon County have remained low
- November 2014 unemployment rates:
 - Fallon County = 1.4%
 - State of Montana = 4.2%
 - United States = 5.5%

Unemployment Rate Comparison

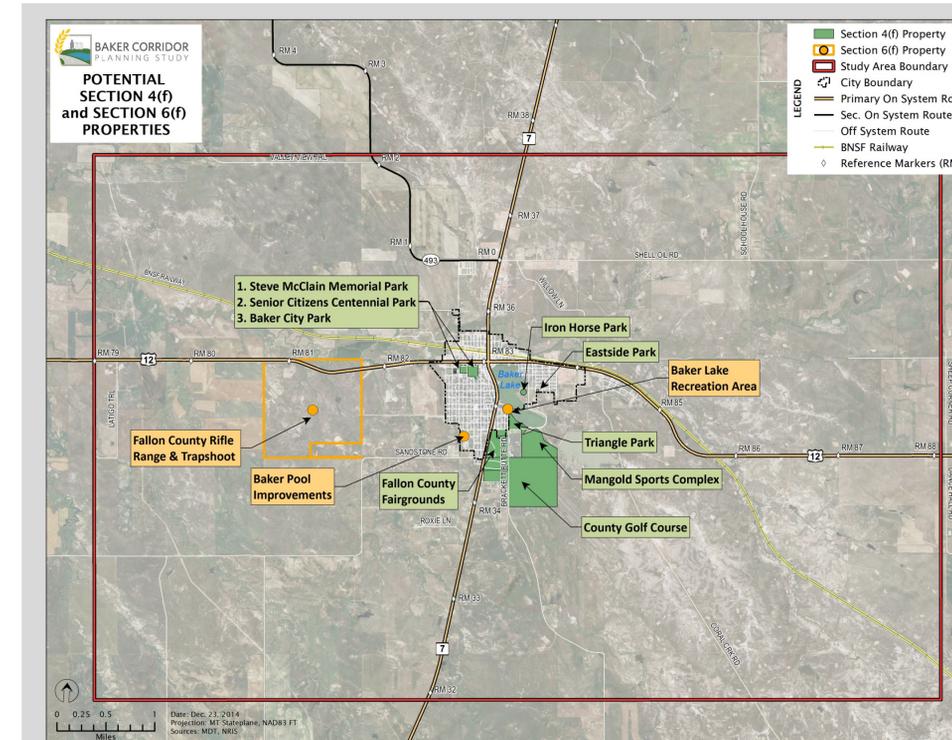


EXISTING CONDITIONS



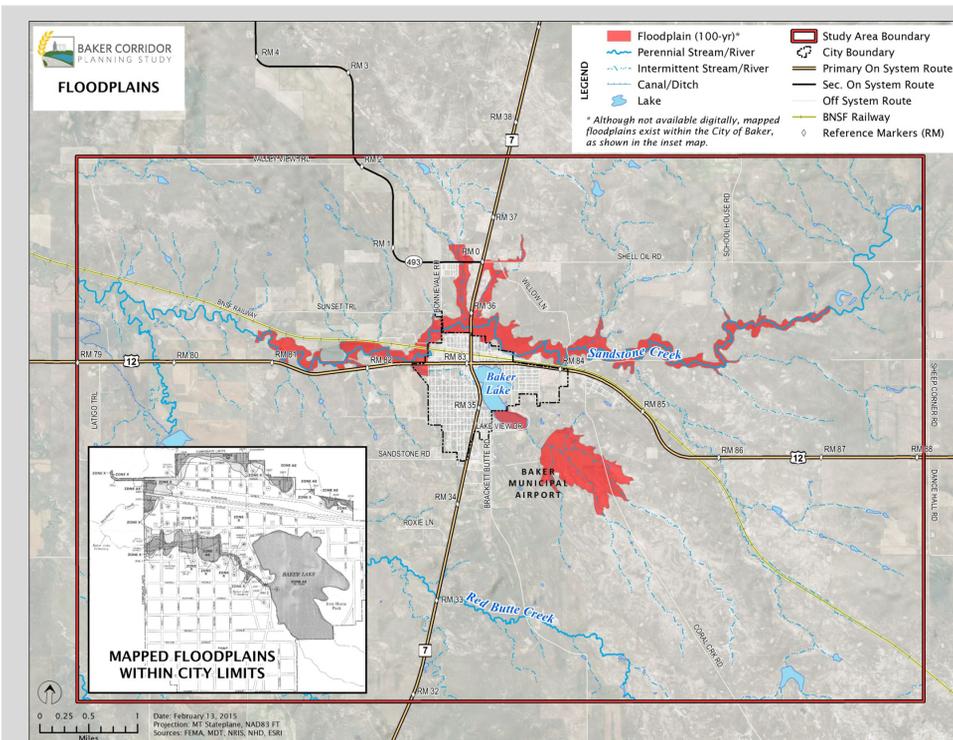
Water Bodies and Wetlands

- Surface waters in the Study Area include:
 - Baker Lake
 - Sandstone Creek
 - Deep Creek
 - Red Butte Creek
 - Timber Creek
 - Irrigation canals
 - others
- Study Area includes numerous wetlands, water bodies, and unnamed drainages
- An MDT Wetland Mitigation Site located along MT 7



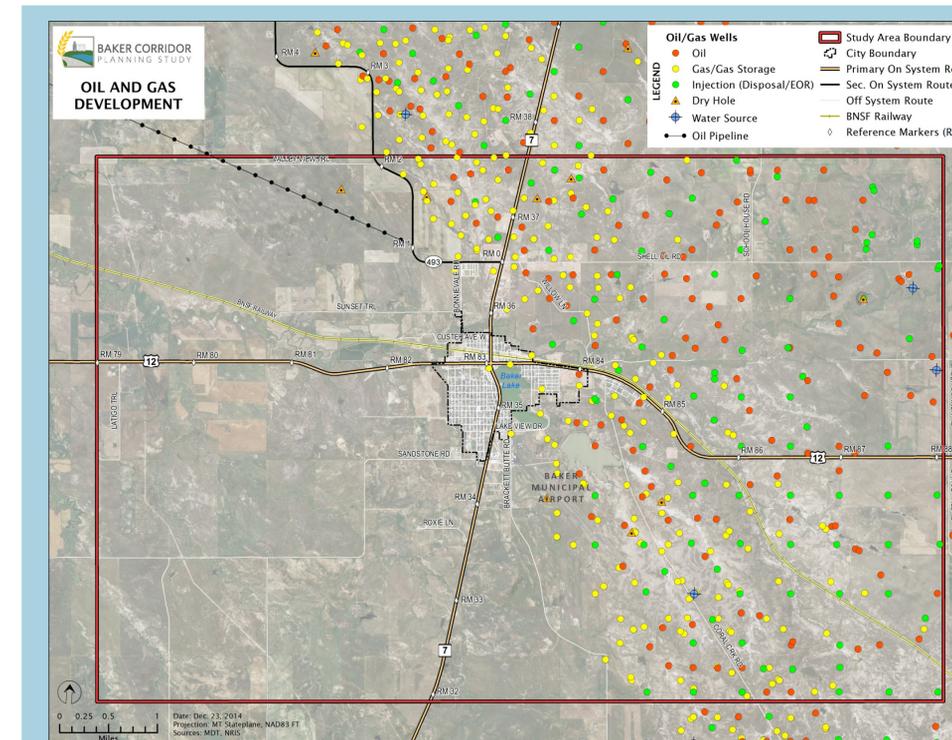
Recreational Resources

- Study Area includes recreational resources protected under Section 4(f) and Section 6(f)



Floodplains

- Mapped floodplains exist along Sandstone Creek, Baker Lake, and the Baker Lake tributary within city limits
- The Study Area has a history of flooding events



Oil and Gas Development

- Extensive oil and gas development within the Study Area
- One crude oil pipeline identified



BAKER CORRIDOR PLANNING STUDY

INFORMATIONAL MEETING #1





BAKER CORRIDOR PLANNING STUDY

INFORMATIONAL MEETING #1





BAKER CORRIDOR PLANNING STUDY

INFORMATIONAL MEETING NO. 1

Fallon County Fairgrounds
Exhibit Hall
March 5, 2015
6:00 PM – 8:00 PM

TITLE VI CONSIDERATIONS

This meeting is held pursuant to Title VI of the 1964 Civil Rights Act, which ensures that ***no person shall be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination*** on the basis of race, color, or national origin under any MDT program or activity.

Additional information is provided in the Title VI pamphlets at the sign-in table.



WELCOME AND INTRODUCTIONS

Project Team Introduction

- Local Officials
- Partners
 - MDT
 - FHWA
 - Fallon County
 - City of Baker
- Consultant Team



MEETING AGENDA

Presentation

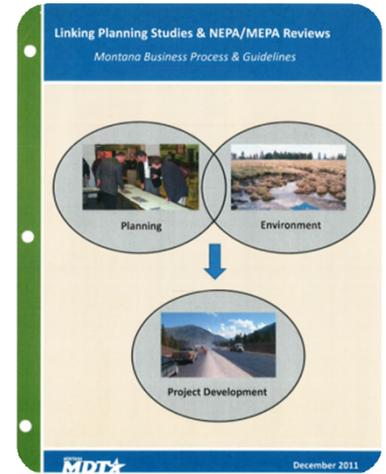
- Introduction of the Corridor Planning Process
- Discuss public involvement process
- Study area boundary
- Study schedule
- Identified stakeholders
- Existing conditions within the study area
 - Socio-economics
 - Transportation
 - Environmental
- Overview of Quantm alignment planning software
- Next steps and conclusion

Discussion Period

WHAT IS A CORRIDOR PLANNING STUDY?

■ Corridor Planning Studies:

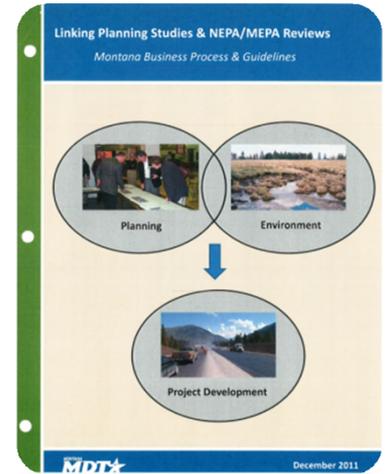
- Develop a high level analysis of study area conditions
- Define transportation issues and areas of concern
- Provide for early identification of potential social, economic, and environmental impacts
- Identify a range of transportation improvement strategies
- Facilitate continued public, resource agency, and stakeholder participation



MDT Corridor Study Guidance Document

WHAT A CORRIDOR STUDY IS NOT

- Corridor Planning Studies are **not**:
 - A preliminary or final design project
 - A construction project or right-of-way acquisition
 - An environmental compliance document

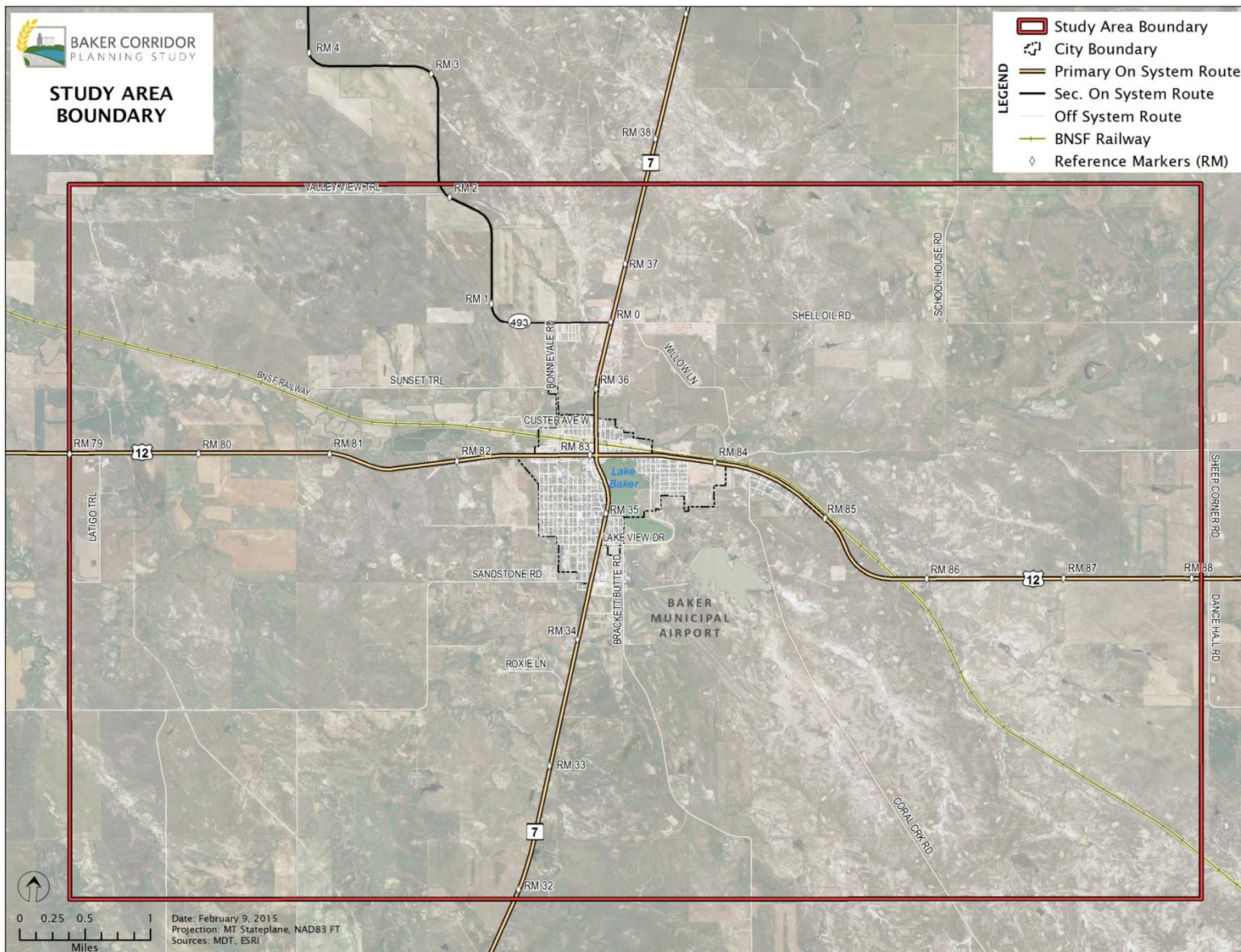


MDT Corridor Study Guidance Document

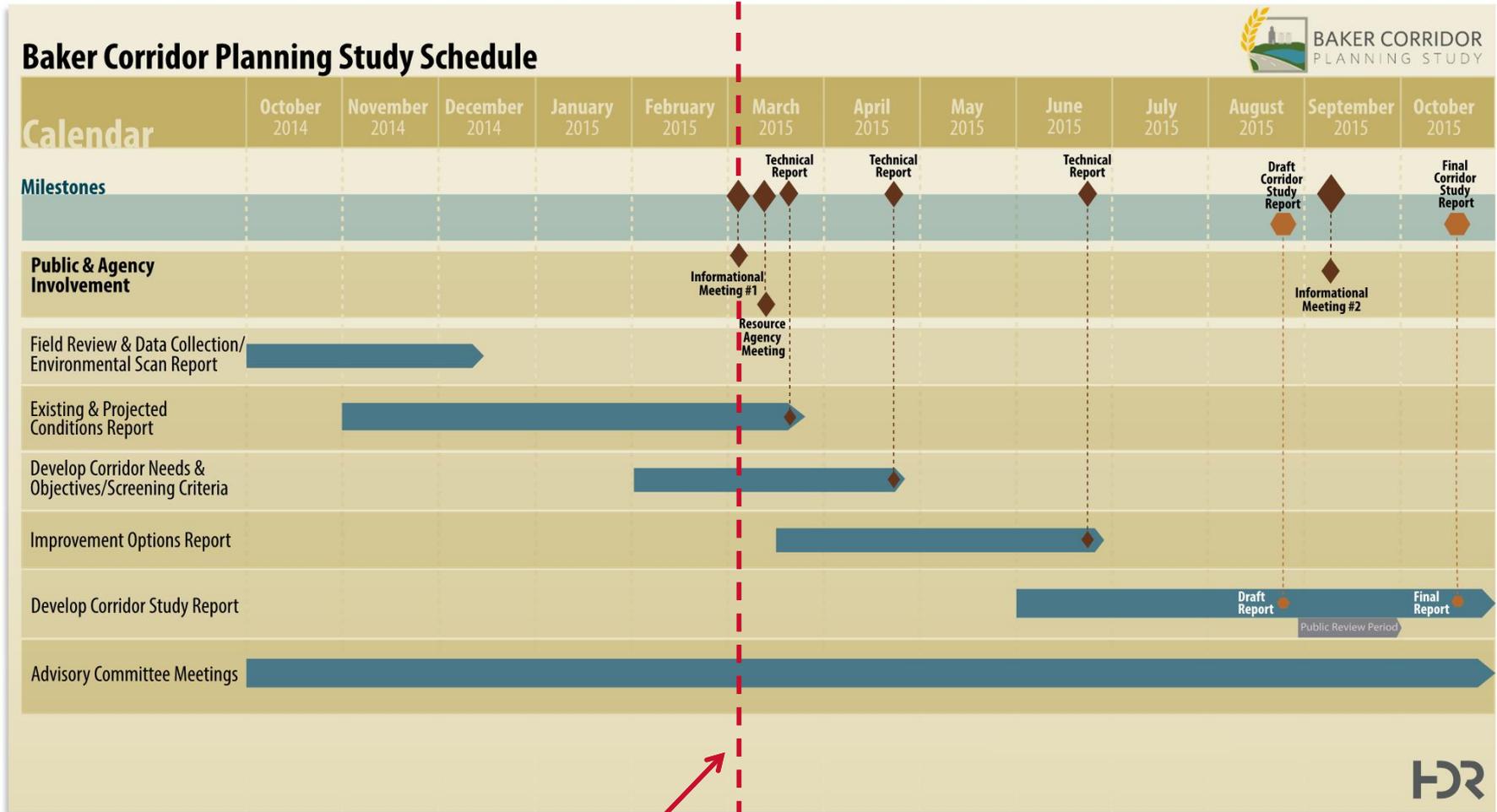
GOALS AND PURPOSE OF STUDY

- The *Baker Corridor Planning Study* will:
 - Identify study area needs and objectives
 - Identify and consider possible impacts and constraints
 - Develop potential improvement option(s)
 - Present recommended improvement option(s) and potential funding sources

STUDY AREA BOUNDARY



STUDY SCHEDULE

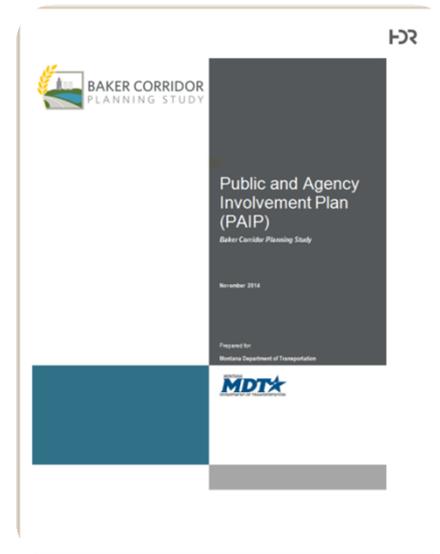


Current Planning Study Progress



PUBLIC INVOLVEMENT PROCESS

- The *Baker Corridor Planning Study* includes the following public involvement activities:
 - Two informational meetings in Baker
 - Coordination with stakeholders, resource agencies, and other interested parties, as needed
 - Study website
 - Study newsletters
 - Stakeholder meetings (as required)



Find the Public and Agency Involvement Plan on the study website.



PROJECT STAKEHOLDERS

- City of Baker Chamber of Commerce and Agriculture
- Baker Municipal Airport
- Southeast Montana Area Revitalization Team (SMART) – Fallon County Economic Development
- BNSF Railway
- Equity Coop Elevator
- Denbury Resources
- Trucking Operations (Freight and Oil/Gas Services)
 - Continental Resources
 - Mitchell’s Oilfield Services
 - D&M Water Services
 - Power Fuels
 - Woody’s Trucking LLC
 - Griffith Excavation Inc.
- Brosz Engineering
- Others as requested

STUDY AREA EXISTING CONDITIONS

Population & Demographics

- Population estimates (2013):
 - Fallon County: 3,085
 - City of Baker: 1,812
 - 60% of Fallon County resides in City of Baker
 - City of Baker population grew by 3% over past decade

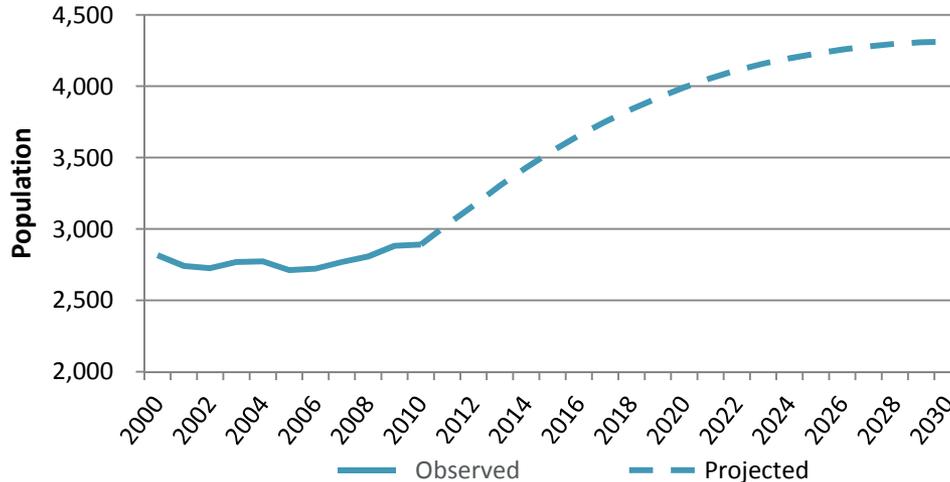
- County demographics:
 - 97.8% of County residents predominantly self-identified as White
 - 2.1% of County residents are American Indian
 - <1% other races



STUDY AREA EXISTING CONDITIONS

Demographics & Population

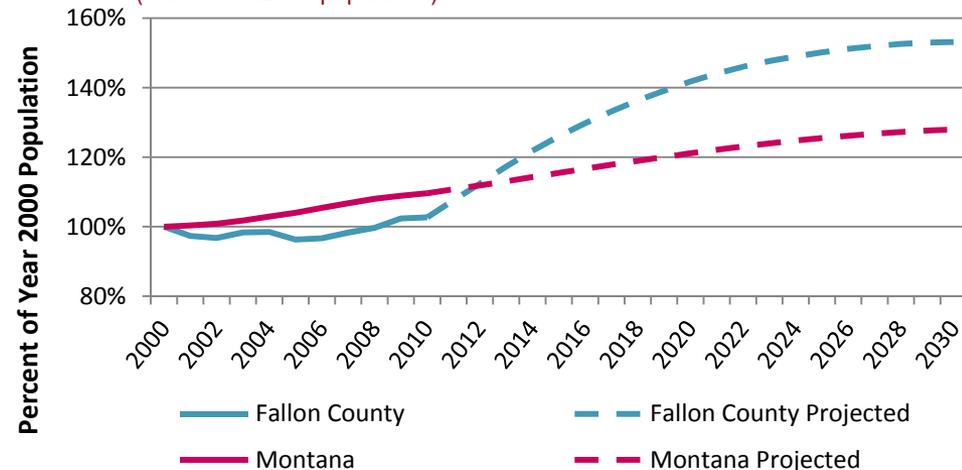
Fallon County Observed and Projected Population



- MT Dept. of Commerce estimated population growth:
 - Fallon County population to grow by approx. 1,500 by 2030

- Fallon County is projected to have much higher population growth rate than the state as a whole

Montana and Fallon County Total Observed and Projected Population (Percent of 2000 population)



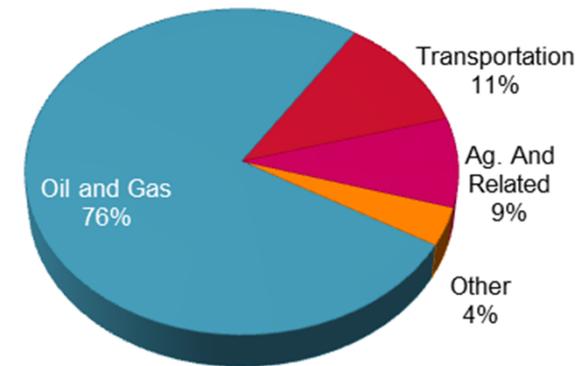
STUDY AREA EXISTING CONDITIONS

Employment & Economy

- Fallon County Employment by Industry (2009-2013)
 1. Agriculture, forestry, fishing, hunting, and mining: 27.5%
 2. Educational services, and health care and social assistance: 18.7%
 3. Construction: 10%
 4. Entertainment, accommodations, and food services: 8.0%

- Economic Base of Fallon County, Montana (2012)

1. Oil and Gas: 76%
2. Transportation: 11%
3. Agriculture and Related: 9%
4. Other 4%

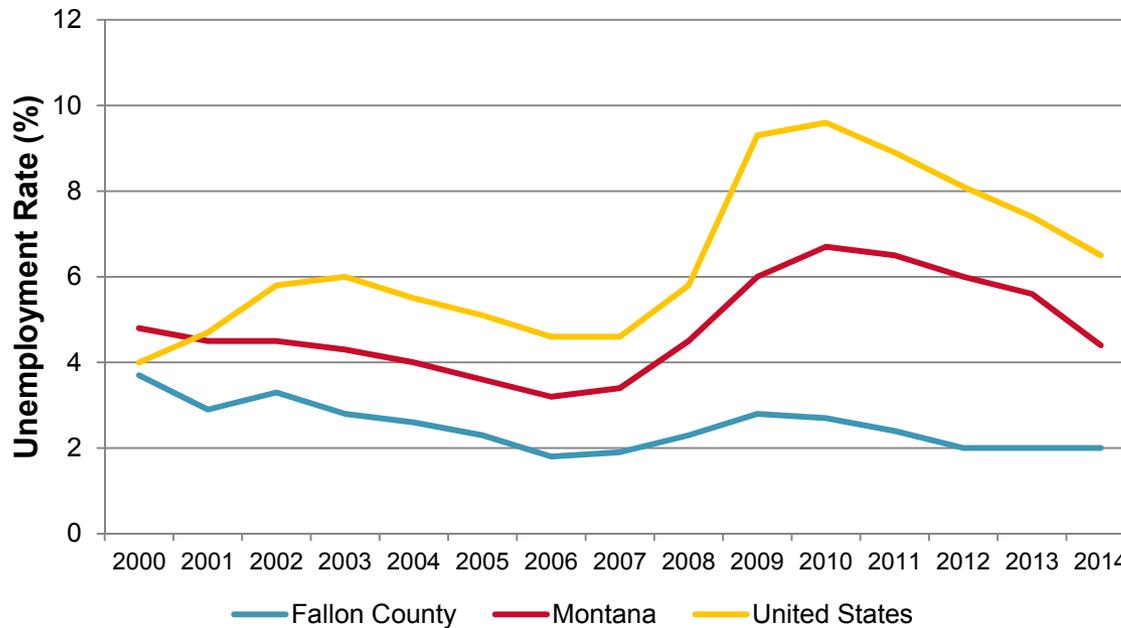


Source: UM Bureau of Business and Economic Research

STUDY AREA EXISTING CONDITIONS

Economy & Employment

Unemployment Rate Comparison



- Unemployment rates in Fallon County have remained low
- November 2014 unemployment rates:
 - Fallon County = 1.4%
 - State of Montana = 4.2%
 - United States = 5.5%

STUDY AREA EXISTING CONDITIONS

Highways

■ US Highway 12

- Functionally classified as Rural Minor Arterial
- Runs east-west
- Major linkage to I-94 to west and North Dakota to east
- Speed limits range from 25 mph (city) to 70 mph (rural)
- Two-lane highway
- 155 access points within Study Area

■ MT Highway 7

- Functionally classified as Rural Minor Arterial
- Runs north-south
- Major linkage to I-94 to north at Wibaux
- Speed limits range from 25 mph (city) to 70 mph (rural)
- Two-lane highway
- 94 access points within Study Area



STUDY AREA EXISTING CONDITIONS

Traffic Data

- 11 traffic count sites in Study Area
- Downtown intersection includes 4 sites: one on each leg of intersection



STUDY AREA EXISTING CONDITIONS

Traffic Data

Historic Annual Average Daily Traffic

Site ID	Route	Reference Marker	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
13-1-4*	US 12	76.13	750	750	980	990	930	1210	1220	790	990	1230
13-1-15	US 12	82.09	1210	1210	1150	1250	1180	1490	1500	1100	1470	1560
13-1-16	US 12	82.60	4000	4000	4330	4460	3600	3730	4530	4590	3750	3790
13-1-17	US 12	82.65	3610	3690	4310	4440	3470	3590	3690	3740	3520	3320
13-1-18	US 12	83.07	3170	3170	2780	2820	2650	2600	2610	2700	2280	2350
13-1-5*	US 12	88.12	880	880	810	1120	1050	880	870	880	990	810
13-2-2*	MT 7	29.34	660	660	810	870	820	390	390	710	750	1030
13-1-19	MT 7	34.32	1050	1460	1030	1130	1060	1120	1120	980	1350	1310
13-1-20	MT 7	35.14	2020	2680	2320	2390	2000	2070	2080	2320	2370	2460
13-1-21	MT 7	35.45	3930	4600	3910	4020	3070	3180	3190	3200	3720	3730
13-1-22	MT 7	35.52	4080	4080	3660	3770	3540	3660	3730	3780	3490	3580
13-1-23	MT 7	35.76	2500	2500	2760	2860	2690	2910	2920	2610	2690	2990
13-1-7	MT 7	36.95	1140	1140	1380	1320	1240	1120	1120	930	1090	1320
13-1-12	S-493	1.26	220	330	290	400	380	370	310	310	260	270

Highway traffic volumes highest within the City Limits

Source: MDT 2014

* Site located outside the Study Area Boundary.

- US Highway 12 traffic within the Study Area ranges from 1,560 vehicles per day (vpd) to 3,790 vpd (2013 counts)
- MT Highway 7 traffic has a similar range within the Study Area: 1,310 – 3,730 vpd
- Traffic volumes are highest within the City of Baker

STUDY AREA EXISTING CONDITIONS

Traffic Data – Heavy Vehicles

Average Daily Traffic

Corridor	Reference Marker	ADT	AADT	HV
US 12	80	1467	1280	14%
US 12	87	1296	1130	20%
MT 7	31	834	730	21%
MT 7	37	1439	1260	29%

Source: MDT 2014

- The Study Area has a high percentage of heavy vehicle (HVs)
- Larger volumes of HVs make turns from southbound MT 7 to eastbound US 12 and westbound US 12 to northbound MT 7 throughout the day in addition to the peak period.



STUDY AREA EXISTING CONDITIONS

Traffic Projections

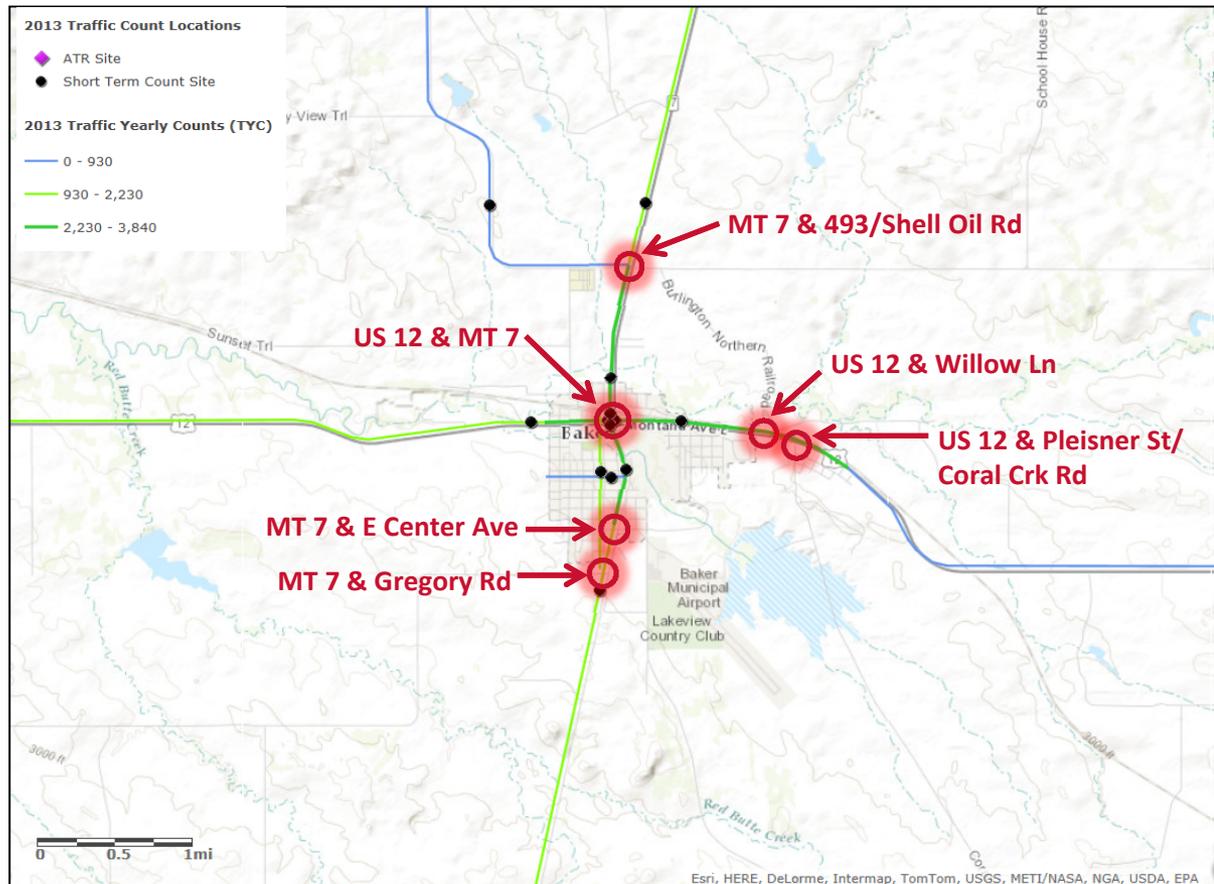
Projected ADT Traffic Volumes (2034)

Site ID	Route	Reference Marker	2013	Low Growth (2%)	Medium Growth (5%)	High Growth (5% vehicles/10% HV)
13-1-4*	US 12	76.13	1230	1900	3400	4000
13-1-15	US 12	82.09	1560	2400	4300	4900
13-1-16	US 12	82.60	3790	5700	10600	11100
13-1-17	US 12	82.65	3320	5000	9200	10000
13-1-18	US 12	83.07	2350	3600	6500	7300
13-1-5*	US 12	88.12	810	1200	2300	3000
13-2-2*	MT 7	29.34	1030	1600	2900	3400
13-1-19	MT 7	34.32	1310	2000	3600	4200
13-1-20	MT 7	35.14	2460	3700	6900	7400
13-1-21	MT 7	35.45	3730	5700	10400	11000
13-1-22	MT 7	35.52	3580	5400	10000	10800
13-1-23	MT 7	35.76	2990	4500	8300	9100
13-1-7	MT 7	36.95	1320	2000	3700	4500
13-1-12	S-493	1.26	270	400	800	1100

- Three growth scenarios were developed to demonstrate resulting growth in traffic
 - Low Growth: 2% growth rate for all vehicles (passenger vehicles and heavy trucks)
 - Medium Growth: 5% growth rate for all vehicles
 - High Growth: 5% growth rate for regular vehicles, 10% growth rate for heavy vehicles

STUDY AREA EXISTING CONDITIONS

Traffic Data – Intersection Analysis



Turning movement counts gathered at six (6) main intersections.

- US 12 & Pleisner St
- US 12 & Willow Ln
- MT 7 & Shell Oil Rd
- MT 7 & US 12
- MT 7 & E Center Ave
- MT 7 & Gregory Rd

STUDY AREA EXISTING CONDITIONS

Traffic Data – Intersection Level of Service (LOS)

Existing Conditions and Projected Level of Service during Peak Hour

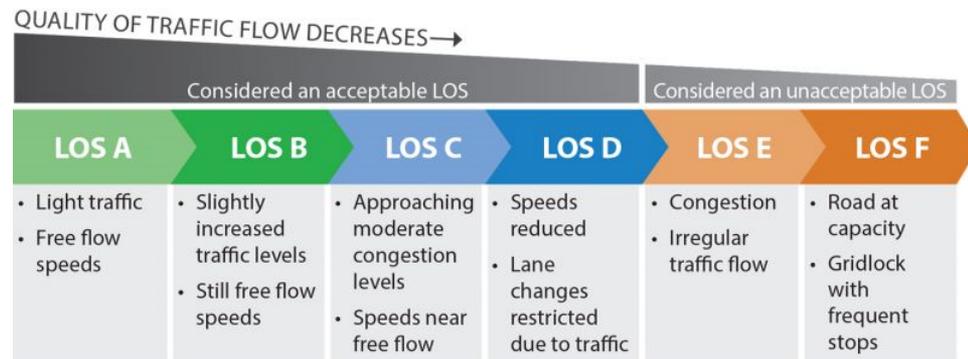
Intersection	Peak Hour	2014 Current LOS (Delay ¹)	2034 Projected LOS ² (Delay)
US 12 & MT 7	5:45 – 6:45 PM	B (14.4)	F (71.3)
US 12 & Willow Lane	5:15 – 6:15 PM	A (9.6)	B (10.1)
US 12 & Pleisner Street	2:45 – 3:45 PM	A (9.7)	B (10.4)
MT 7 & Shell Oil Road/S-493	7:30 – 8:30 AM	C (15.2)	D (28.2)
MT 7 & Center Ave	5:00 – 6:00 PM	A (9.7)	B (10.3)
MT 7 & Gregory Ave	6:00 – 7:00 PM	A (8.8)	A (9.1)

Note: The worst-performing leg LOS is shown for each intersection.

¹ Delay is shown in seconds.

² Projections use a 2% growth rate

Level of Service (LOS) is a term used to qualitatively describe roadway and intersection traffic operations using “letter grades” ranging from A (best) to F (worst).



STUDY AREA EXISTING CONDITIONS

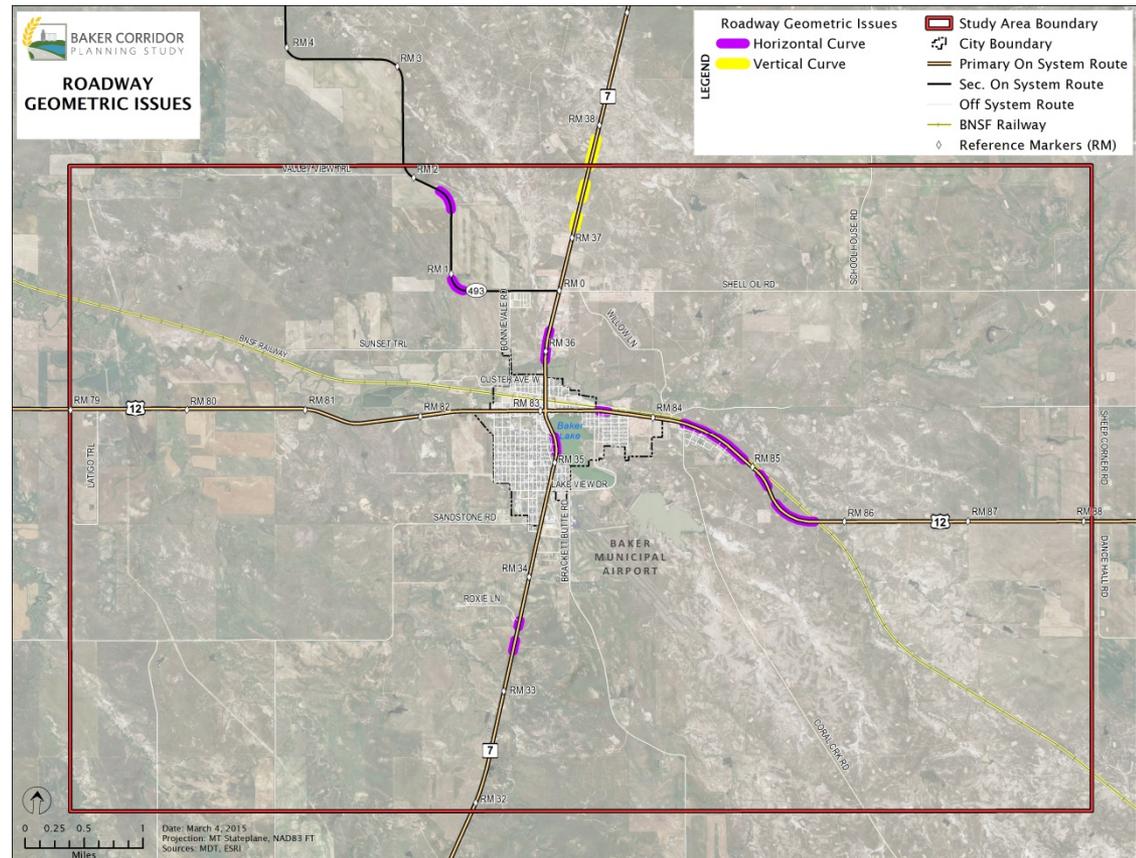
Roadway Geometrics

Horizontal Curves

- 10 curves do not meet current MDT design standards
 - Radius
 - Stopping Sight Distance

Vertical Curves

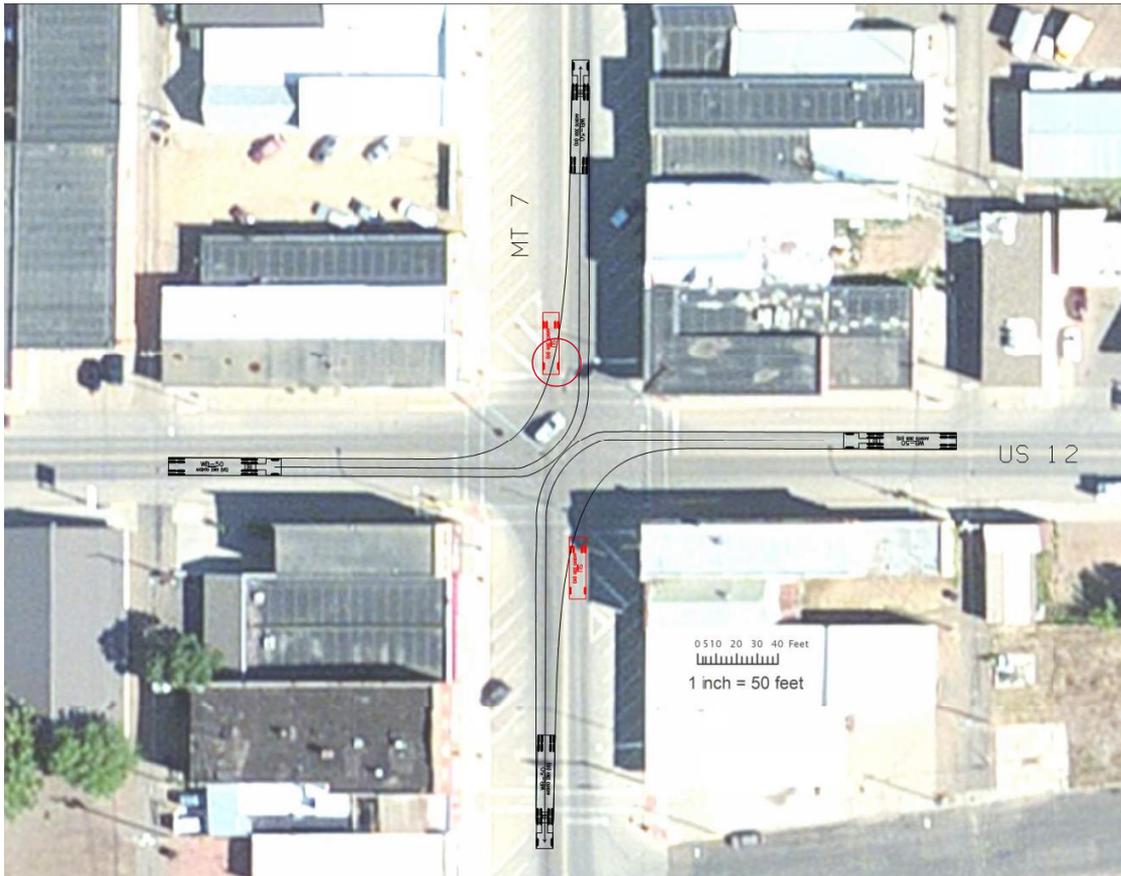
- 3 curves do not meet current MDT standards
 - Curvature
 - Grade
 - Stopping Sight Distance



STUDY AREA EXISTING CONDITIONS

Intersection Turning Movements

- The intersection of US 12 and MT 7 cannot accommodate proper turning movements of medium sized and standard sized semi-trailers
- A WB-50 design vehicle (truck with 50' wheelbase) cannot make turning movements from US 12 onto MT 7 without conflict
- Note that a larger WB-67 vehicle is the standard-sized semi-truck



STUDY AREA EXISTING CONDITIONS

Pavement Conditions

SEGMENT REFERENCE MARKER (RM)	RIDE INDEX (IRI)	RUT INDEX (RI)	ALLIGATOR CRACK INDEX (ACI)	MISC. CRACKING INDEX (MCI)	OVERALL PERFORMANCE INDEX (OPI)
<i>US HIGHWAY 12 (P-2)</i>					
77.2 – 82.6 ¹	65.09	53.91	95.47	95.17	54.07
82.6 – 83.749	48.00	74.67	100.00	100.00	57.41
83.749 – 95.514	80.33	75.46	99.25	97.68	74.09
<i>MT HIGHWAY 7 (P-27)</i>					
29.0 – 35.4	72.07	75.71	98.35	97.99	69.57
35.4 – 44.5	67.95	70.79	98.19	95.58	64.64

Source: MDT Pavement Management System, 2014

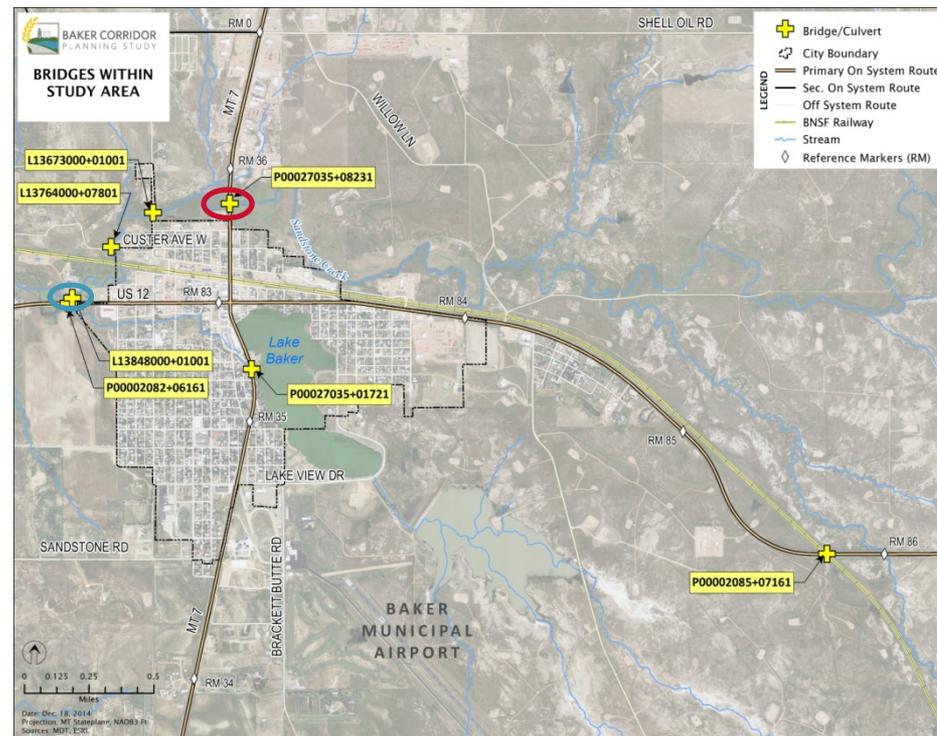
¹ Portions of this segment were resurfaced in 2014 and likely are not reflected in PvMS at the time the report was run.

- Performance Index Scale:
 - 80-100 = “Good”
 - 60 – 79.9 = “Fair”
 - 0 – 59.9 = “Poor”
- US 12 from RM 77.2 to RM 83.7 is rated as “Poor” based on the OPI
- MT 7 from RM 35.4 to RM 44.5 is approaching “Poor”

STUDY AREA EXISTING CONDITIONS

Bridges

- Built in 1941, the bridge located just north of Baker on MT 7 at RM 35.86 spanning Sandstone Creek (P00027035+08231) has been categorized as **Functionally Obsolete**.
- Built in 2003, the bridge just north of US 12 on Ag Lane (L13848000+01001) has been categorized as Structurally Deficient. This bridge was recently replaced.



Bridge ID	Last Inspection Year	Sufficiency Rating	Structure Status (NBI Rating)
P00002082+06161	2014	83	Not Deficient
P00002085+07161	2014	77.1	Not Deficient
P00027035+01721	2014	93.3	Not Deficient
P00027035+08231	2014	69.6	Functionally Obsolete
L13673000+01001	2013	73.2	Not Deficient
L13764000+07801	2013	99.2	Not Deficient
L13848000+01001	2013	47.9	Structurally Deficient

Source: MDT Bridge Management System, 2014

STUDY AREA EXISTING CONDITIONS

Other Transportation Modes – BNSF Railway

Railroad Crossings within the Study Area

Location	AADT	Warning Device / Crossing Type	Trains Per Day	# of Tracks	Train Switching	Speed Over Crossing
Baker, E 1.6 mi on US 12 (overpass)	990	RR Underpass, grade separated	5	0	0	40
Baker, E 0.2 mi (Willow Lane)	110	Cross bucks, at-grade	5	2	0	40
Berwald Rd	102	Cross bucks, at-grade	5	2	0	40
Main Street (MT 7)	4509	Gates, at-grade	5	3	0	40
N 3 rd Street W	402	Gates, at-grade	5	3	0	40

Source: MDT, 2014



- Four BNSF Railway-operated at-grade crossings are located within the Study Area
- There is an approximate 2-mile stretch of double track (main, siding) in Baker
- The crossing located on Willow Lane has steep roadway grades, which can be problematic for low clearance trucks.

STUDY AREA EXISTING CONDITIONS

Other Transportation Modes – Baker Municipal Airport

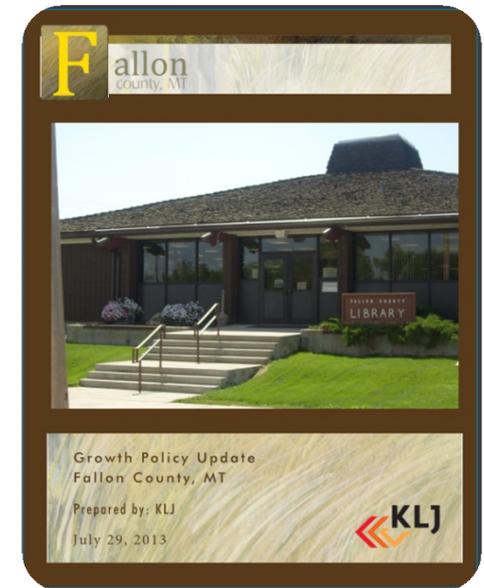
- Baker Municipal Airport (BHK) is owned by the City of Baker and Fallon County
- Airport covers an area of 193 acres and includes one 4,898-foot-long runway
- The airport has approximately 19 aircraft operations per day on average



STUDY AREA EXISTING CONDITIONS

Fallon County Growth Policy

- Updated in 2012
- Includes goals, objectives, and policies to facilitate decision-making related to future growth in the area
- Includes specific goals and objectives related to transportation:
 - Reduce truck traffic levels in the City of Baker
 - Maintain safe streets and roads
 - Minimize disruption of traffic circulation caused by barriers such as the railroad
 - Plan for street and road extensions and preserve adequate right-of-way for such extensions
 - Protect Baker Municipal Airport's air space



2012 Fallon County Growth Policy

STUDY AREA EXISTING CONDITIONS

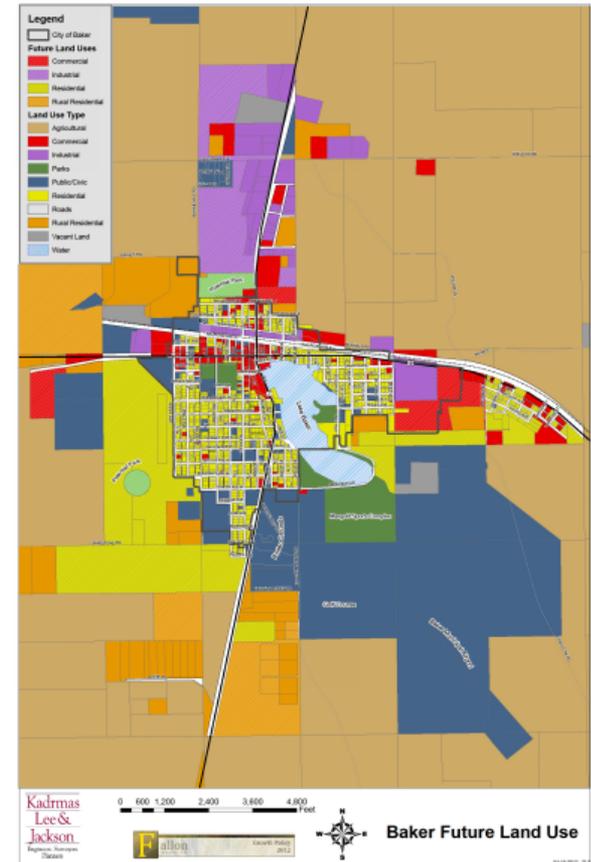
Land Use and Zoning

■ Future Land Use Plan

- Guides growth within the County and Baker
- Encourages growth in areas with existing or easily expandable infrastructure
- City of Baker growth directed towards north and west of city

■ Zoning ordinance

- Applicable within city limits
- Establishes zoning districts
- Development standards



Baker Future Land Use Plan

STUDY AREA EXISTING CONDITIONS

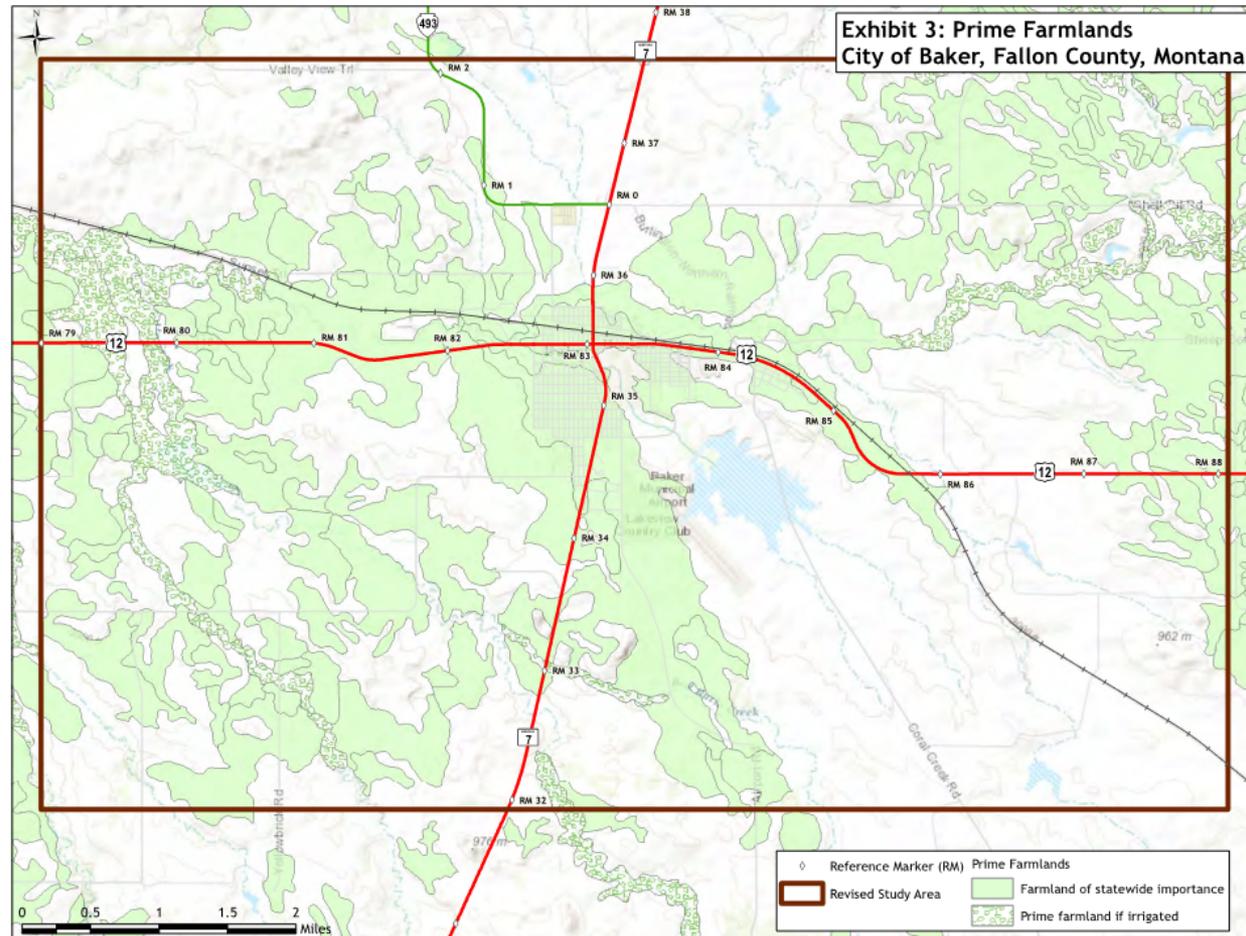
Environmental Resources

- Physical Environment
 - **Soil Resources and Prime Farmland**
 - Geologic Resources
 - **Surface Waters**
 - Groundwater
 - **Wetlands**
 - **Floodplains**
 - Irrigation
 - Air Quality
 - **Hazardous Materials**
 - Noise
 - Visual Resources
- Biological Resources
 - Vegetation
 - Wildlife
 - **Threatened and Endangered Species**
 - **Montana Species of Concern**
- Recreational, Historical and Cultural Resources
 - **Parks and Recreational Sites**
 - Cultural Sites

STUDY AREA EXISTING CONDITIONS

Soil and Farmland

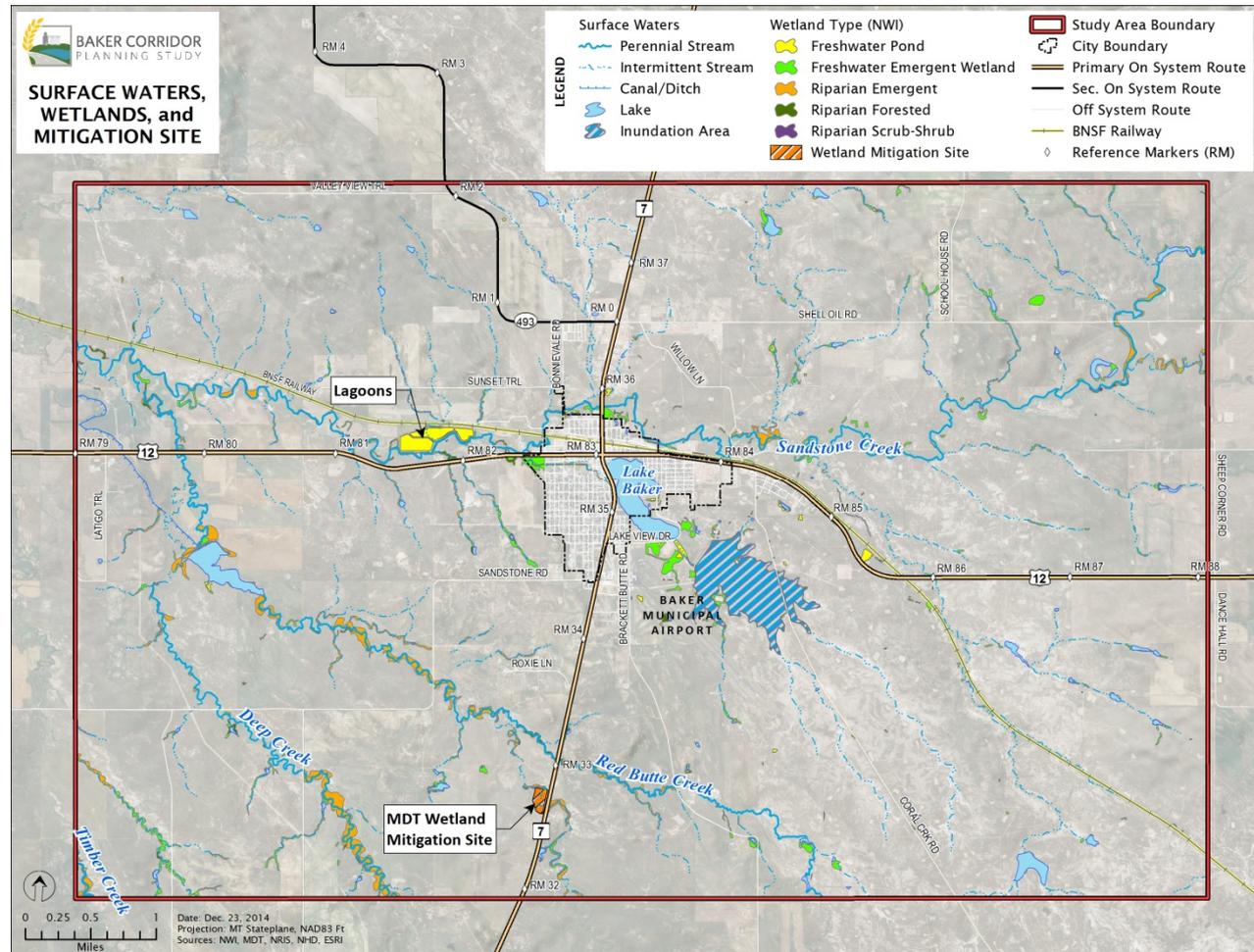
- The Farmland Protection Policy Act (FPPA) protects farmland and minimizes conversion to non-agricultural uses
- Study Area contains farmland of state or local importance and prime farmland



STUDY AREA EXISTING CONDITIONS

Surface Waters

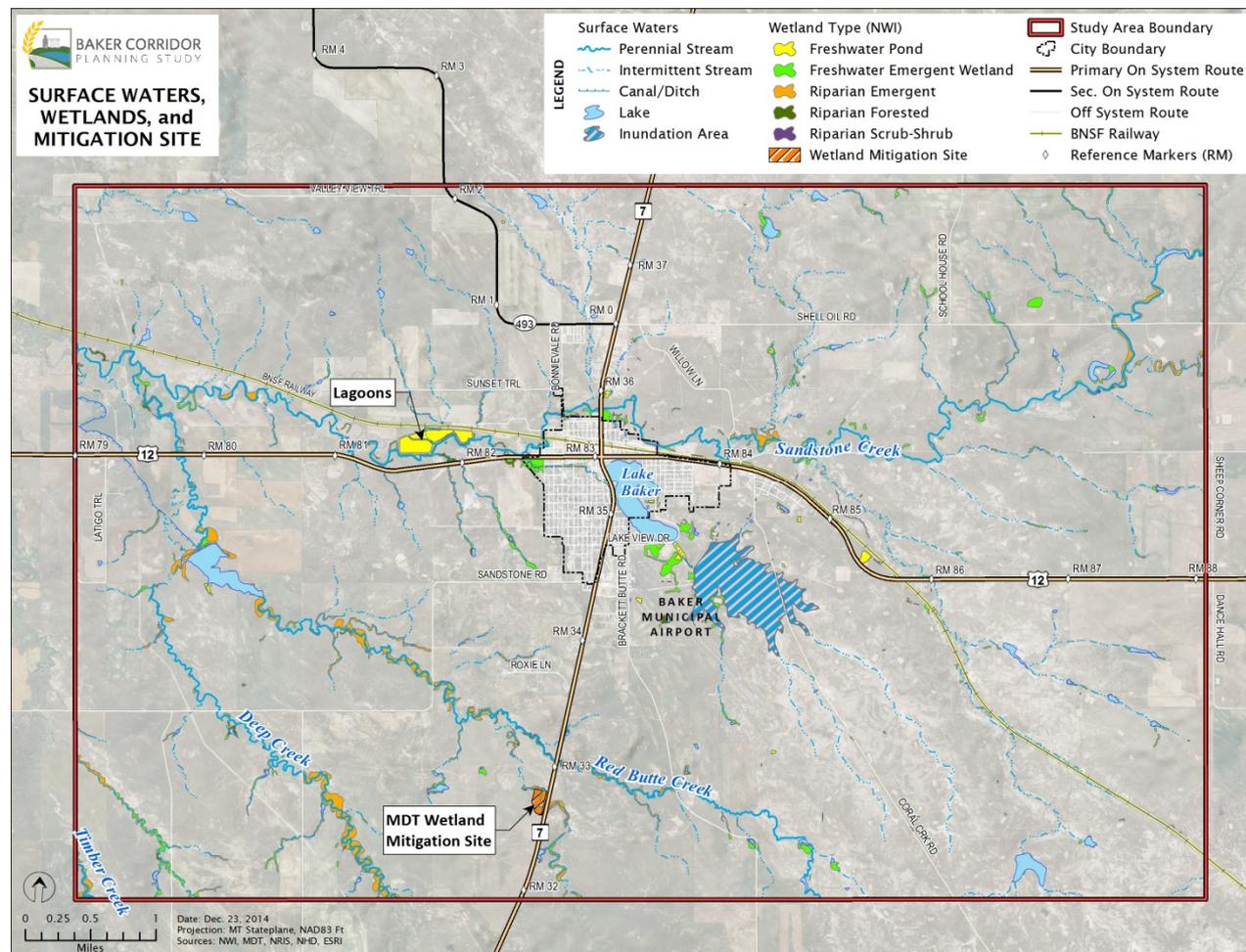
- Surface waters in the Study Area include:
 - Baker Lake
 - Sandstone Creek
 - Deep Creek
 - Red Butte Creek
 - Timber Creek
 - Irrigation
 - others
- Sandstone Creek is on the DEQ 303(d) list for impaired water bodies
 - Probable sources of impairment are agriculture and municipal point source discharges



STUDY AREA EXISTING CONDITIONS

Wetlands

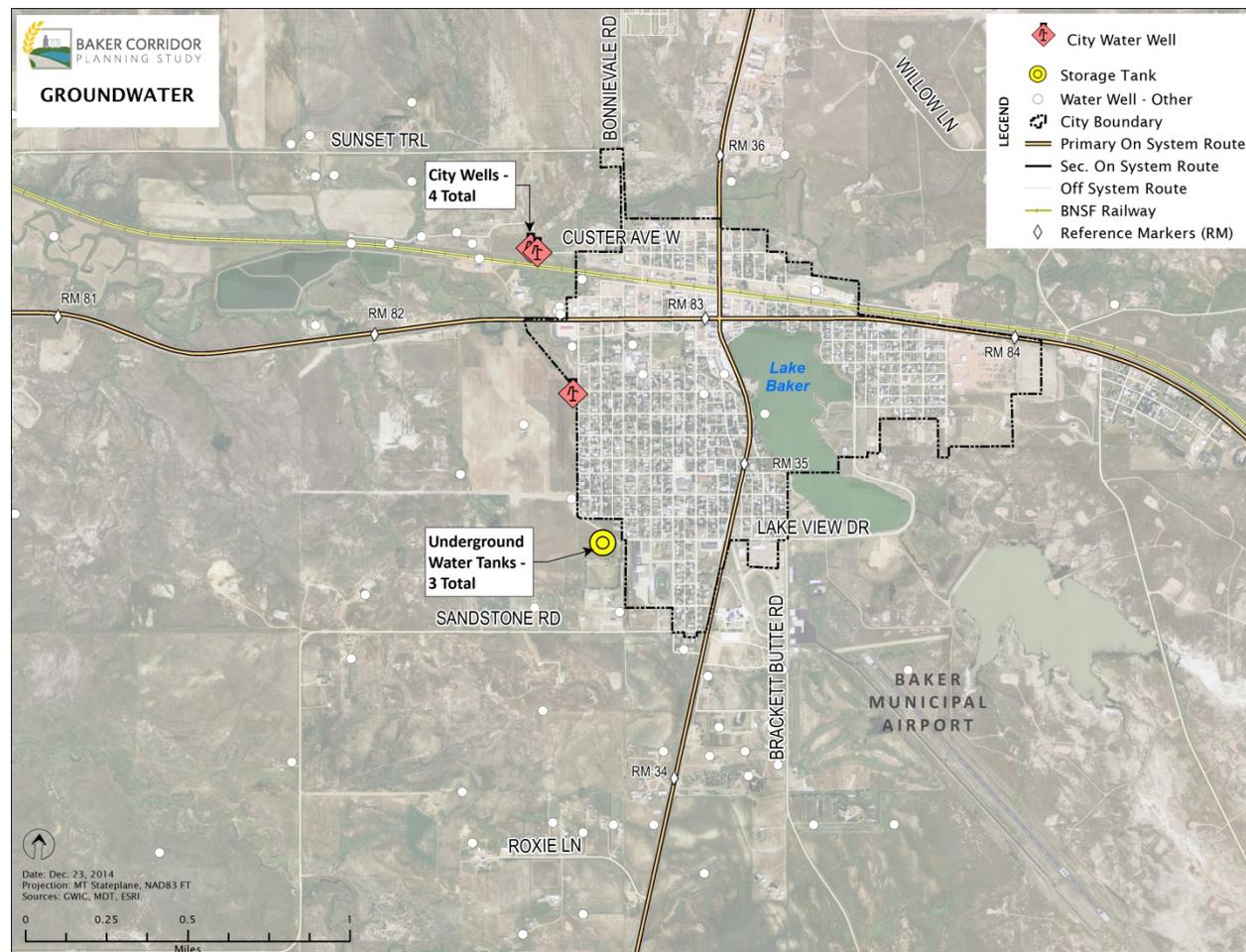
- Wetlands and waters of the U.S. are protected under the federal Clean Water Act
- Study Area includes numerous wetlands, water bodies, and unnamed drainages
- An MDT Wetland Mitigation Site located along MT 7
- Wetland delineations required when/if a project is identified for construction



STUDY AREA EXISTING CONDITIONS

Groundwater Resources

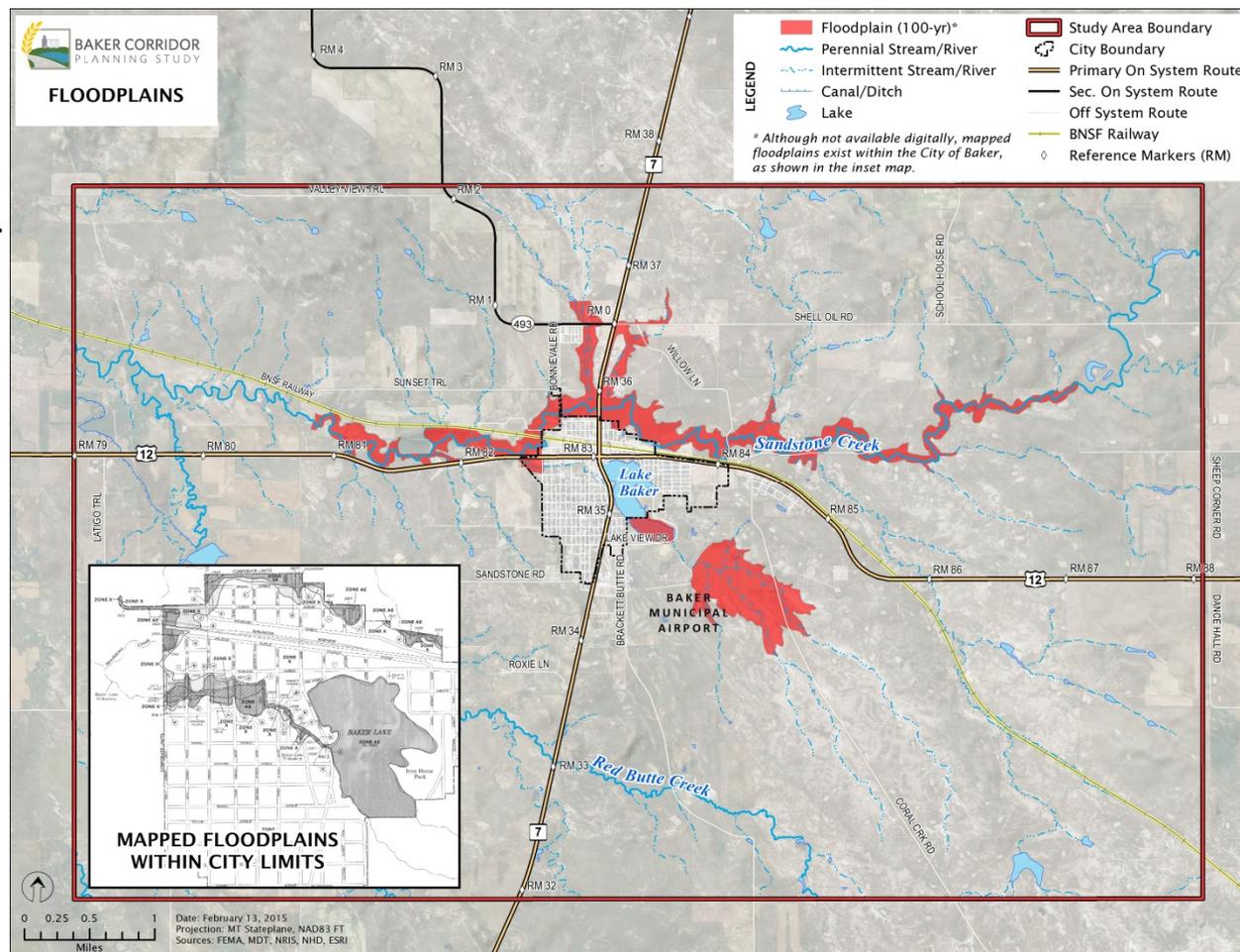
- The City of Baker has five public water supply wells in the Study Area
- Public water supply wells typically have 100' setbacks
- Study Area contains numerous stockwater and domestic wells



STUDY AREA EXISTING CONDITIONS

Floodplains

- Mapped floodplains exist along Sandstone Creek, Baker Lake, and the Baker Lake tributary within city limits
- Study Area has a history of flooding events



STUDY AREA EXISTING CONDITIONS

Threatened and Endangered Species

Species	Status
Greater Sage-Grouse	Candidate
Sprague's Pipit	Candidate
Red Knot	Threatened
Whooping Crane	Endangered

Source: USFWS, 2014.

- Documented occurrence within Study Area:
 - Greater Sage-Grouse
 - Sprague's Pipit
- T&E species protected under the Endangered Species Act



Greater Sage-Grouse



Sprague's Pipit

STUDY AREA EXISTING CONDITIONS

Montana Species of Concern

Animal Subgroup	Common Name	State ¹ Rank	Habitat Description
Birds	Greater Sage-grouse	S2	Sagebrush
	Baird's Sparrow	S3B	Grasslands
	Brewer's sparrow	S3B	Sagebrush
	Chestnut-collard Longspur	S2B	Grasslands
Fish	Brook Stickleback	S4	Small prairie rivers
	Brassy Minnow	S4	Small prairie rivers
	Plains Minnow	S4	Small prairie rivers
	Creek Chub	S4	Small prairie rivers

Source: MNHP, 2014.

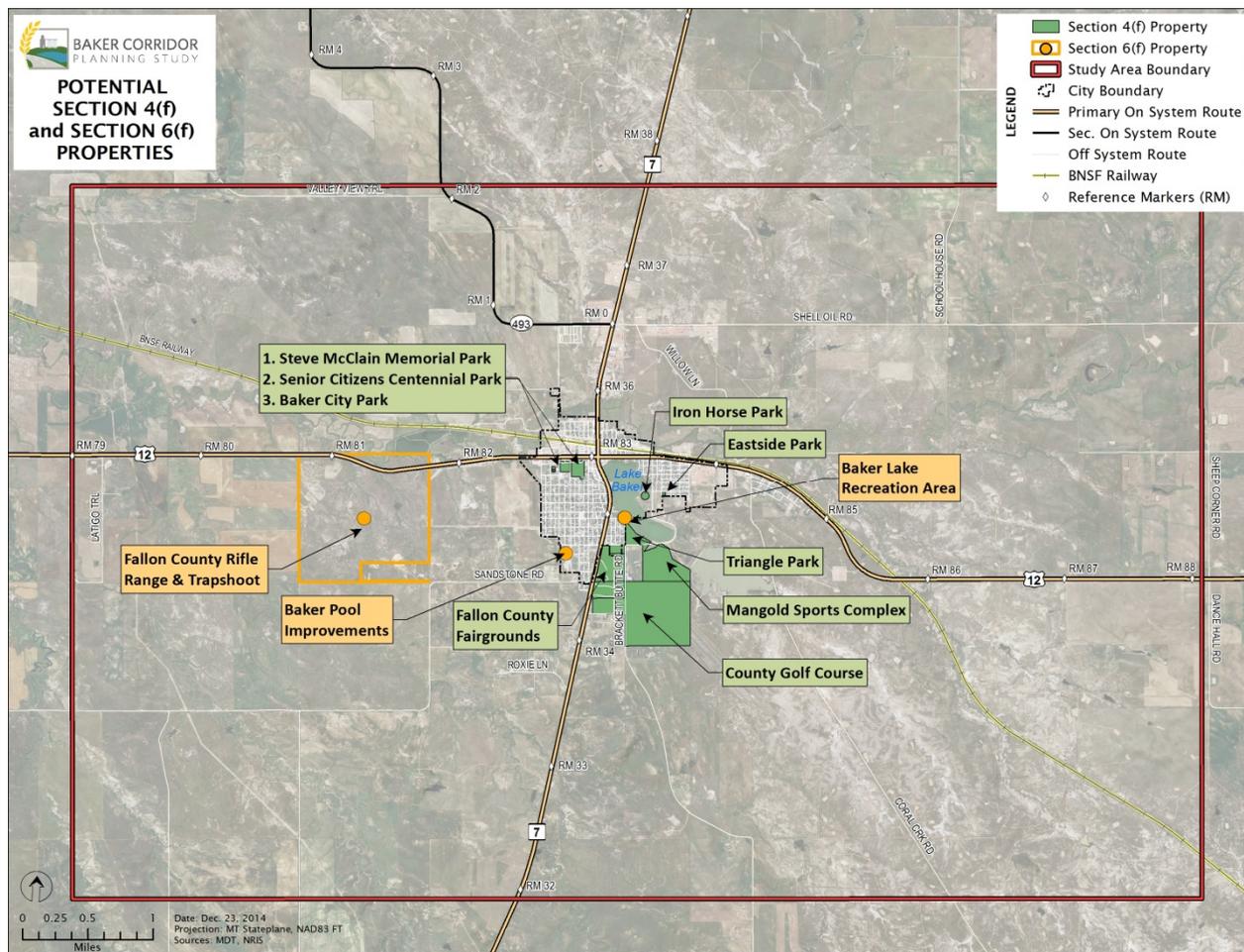
¹ State rank definitions are located in Appendix C.

- Montana species of concern (SOC) are considered to be “at risk” due to:
 - declining population trends
 - threats to their habitats
 - restricted distribution

STUDY AREA EXISTING CONDITIONS

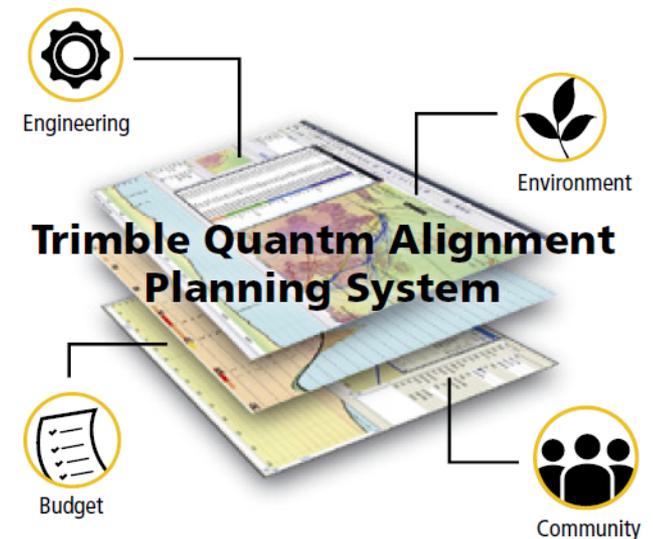
Recreational Resources

- Study Area includes recreational resources protected under Section 4(f) and Section 6(f)



QUANTM ROUTE OPTIMIZATION

- Study is examining potential alternative alignments
- The Trimble Quantm Alignment Planning system:
 - Supports the planning process through corridor selection by considering the environmental, design, cost, and social factors during alternatives analysis
 - Reduces project planning time and can substantially lower construction cost
 - Has been successfully utilized by MDT on multiple pre-NEPA/MEPA corridor planning projects



NEXT STEPS...

- Continue coordination with public, resource agencies, and stakeholders
- Finalize study documents:
 - Environmental scan
 - Existing and project conditions report
- Further analysis of transportation needs
- Identification of improvement option(s)
- Develop corridor study report



MISSING INFORMATION?

- Identify any missing information not previously discussed
- Identify public concerns/issues with existing transportation system
- Written comments are encouraged



CONCLUSION

- Questions/comments?
- For more information
 - Study website:
<http://www.mdt.mt.gov/pubinvolve/baker/>
 - Study newsletters:
 - Study contacts:

Corrina Collins

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Suite C
Missoula, MT 59801
Email: jon.schick@hdrinc.com
Tel: (406) 532-2231





Memorandum

Project: Baker Corridor Planning Study

Subject: **Informational Meeting #2 Summary**

Date: Monday, October 26, 2015

To: Corrina Collins, MDT Project Manager

From: Jon Schick, HDR Project Manager

Introduction:

The Baker Corridor Planning Study Informational Meeting #2 was held in Baker, MT at the Fallon County Fairgrounds Exhibit Hall on October 20st, 2015 from 6:30 PM to 8:30 PM. The following team members and MDT representatives were present at the meeting:

Team Member	Affiliation
Corrina Collins	MDT – Planning Division
Shane Mintz	MDT – Glendive District Administrator
Jim Frank	MDT – Glendive District
Steve Heidner	MDT – Glendive District
Bill Randash	Fallon County Commissioner
Steve Baldwin	Fallon County Commissioner
Jon Schick	HDR Engineering
Lisa Fischer	HDR Engineering

Seventeen (17) community members attended the informational meeting and provided contact information on the meeting sign-in sheet. Meeting attendees included Carol Lambert, Glendive District Transportation Commissioner; Jason Rittal, Executive Director of Eastern Plains Economic Development Corporation; and multiple local business owners and stakeholder managers. Copies of the meeting sign-in sheets are attached to this memorandum.

Media Coordination and Newsletter:

A display advertisement for the October 20th Informational Meeting was submitted to the Fallon County Times and published in the October 9th and October 16th editions of the newspaper. A press release was circulated to various media outlets on October 13th, 2015. Media outlets included the Baker Chamber of Commerce, Miles City Chamber of Commerce, Fallon County Times, Miles City Star, and several area television and radio stations. The date of the meeting was also published on Montana.gov’s e-calendar. Copies of the newspaper display ad and press release are attached to this memorandum.

A study newsletter was developed and hard copies were distributed to Fallon County (50 copies) as well as mailed to project stakeholders. The newsletter was posted on the study website several weeks prior to the meeting and copies were available at the informational meeting.



Presentation:

The presentation and discussion was facilitated by Jon Schick. The presentation began at approximately 6:40 PM. Glendive District Administrator Shane Mintz began with a brief introduction of the project as well as the study team and local officials present. The PowerPoint presentation was followed by a question/answer and discussion period. A copy of the presentation is attached to this memorandum. The presentation outline included the following topics:

Presentation

- Introductions
- Title VI Considerations
- Overview of the corridor planning process
- Areas of consideration (existing and project conditions summary)
- Needs and objectives
- Improvement options
- New alignments developed using Quantm
- Next steps and conclusion

Discussion Period

Discussion:

An open discussion was held following the PowerPoint presentation. Discussion topics are described below.

State vs. Local Routes

- A question was asked to clarify a state versus local route. The response was made that a state route is one that is maintained by MDT and includes US 12, MT 7, and S-493 within the study area. Local routes are roads that are owned and maintained by the City or County.

Intersections

- A comment was made that the lane reconfigurations and a new traffic signal under Improvement Option 8: Future Signalization of US 12/MT 7 would back up traffic and affect parking access. It was clarified that this option would require removing areas of on-street parking. It is estimated that this option would result in loss of approximately 26 parking spaces.
- A comment was made that the conceptual roundabout (RAB) shown for the MT 7/Shell Oil Rd/S-493 intersect would not work due to the large volumes and size of trucks passing through the intersection. This intersection receives very high volumes of heavy vehicles (e.g., large loads). The response was made that RABs can be designed to accommodate larger vehicles. MDT pointed out that the Glendive District will soon have five new RABs within the next 3-5 years and that they have the ability to greatly improve

intersection safety over traditional traffic signals. Even though the presentation showed a RAB at this location, an intersection analysis would need to be performed in order to identify the best configuration for the intersection.

- The US 12/Willow Lane intersection improvement option (and at-grade crossing improvements) received support. Meeting attendees noted that the Willow Lane crossing and private road is used frequently by trucks as a means to avoid downtown. Two propane trucks have tipped over at this location while making the EB right turn since there limited space to make the turn.

Truck Routes

- The Railroad Ave and Milwaukee Ave Truck Route options received support. It was pointed out that implementation of any of the truck routes on existing routes would be driven by local priority and preference. Under this option, the roadways would be signed as truck routes but would still be a local route (city maintained). The design phase would ensure turning movements could be made by trucks and would be reviewed by MDT.
- Under the one-way couplet option, the couplet would likely become a state route since the traffic on US 12 would be routed onto Railroad Ave. As such, funding could include state and federal sources.

Railroad Conflicts with Traffic

- Multiple attendees expressed concerns about local traffic delays and emergency service access caused by the railroad being blocked. The question was raised regarding the state’s ability to prohibit BNSF from parking trains on the tracks. MDT responded that they lack the authority to do this.
- One attendee commented that the areas of railroad double track within the study area should be highlighted on a map. This could show areas of single track that a new at-grade crossing could be proposed. The study team responded that typically an existing crossing is required to be removed when a new crossing is added. The overall need of the crossing and benefits to the railroad would also come into consideration.
- A general discussion ensued regarding BNSF trains blocking the railroad crossings for lengths of time. Members of the public brought up the concept that has previously been discussed with the BNSF Railway of relocating the siding switch at the 3rd Street at-grade crossing to the east side of the crossing. This improvement would remove the siding tracks at that crossing ensuring the crossing would not be blocked by parked trains. The study team clarified that improvement options regarding moving or relocating railroad tracks and/or siding switches is not within MDT jurisdiction and authority to do so rests solely with BNSF Railway.

New Alignments

- A comment was made that, between the new alignments, only the NE-5 alignment appears to address improving emergency vehicle access because it doesn’t cross the railroad. It was clarified that the NW-5 alignment includes a grade separation of the railroad (i.e., highway bridge over the railroad).



- It was described that the new alignments identified in the report could be constructed in phases. The new alignment(s) could initially be constructed as a gravel road and be improved (paved) later in time, depending on available funding.

Emergency Vehicle Access

- An attendee asked whether the study considered emergency vehicle access when developing improvement options. It was pointed out that the Need and Objectives #2 addresses study area mobility, which relates to emergency vehicle access and delays. The new alignment NW-5 specifically addresses improvements to emergency vehicle access north of the railroad.

Written Comments:

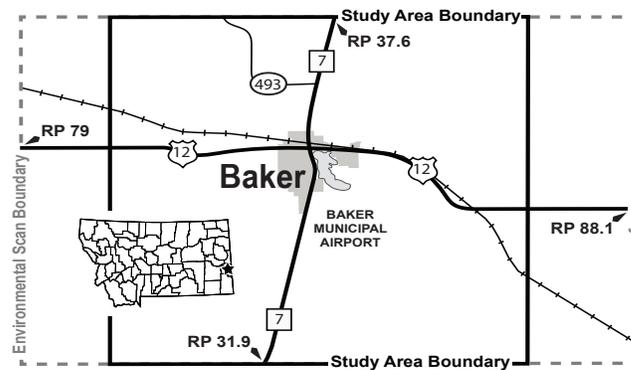
No written comments were received at the informational meeting. It was mentioned multiple times throughout the presentation that, in order for the study team to document and respond to a comment or concern, it must be received in writing. Meeting attendees were encouraged to leave comments at the sign-in table, submit a comment electronically through the study website, or take home a comment form and submit via mail at a later date. It was noted several times that the public comments need to be received by the close of the public comment period which ends on November 6th, 2015.

To Discuss Baker Corridor Planning Study

The Montana Department of Transportation, in partnership with the Federal Highway Administration and in coordination with Fallon County and the City of Baker, is developing a corridor planning study that includes the City of Baker and surrounding vicinity.

There will be a public meeting in Baker on Tuesday, Oct. 20, at 6:30 p.m. at the Fallon County Fairgrounds Exhibit Hall (3440 Montana 7) to discuss the corridor planning study.

MDT has scheduled the meeting to present the recommended improvement options and request community feedback on the draft corridor planning study report.



This meeting is open to the public and attendance is encouraged.

MDT attempts to provide accommodations for any known disability that may interfere with a person's participation in any department service, program or activity. For reasonable accommodations to participate in this meeting, please contact Jon Schick at (406) 532-2231 at least two days prior to the meeting.

Alternative accessible formats of this information will be provided upon request by contacting the Office of Civil Rights, P.O. Box 201001, Helena, MT 59620; (406) 444-9229; fax (406) 444-7243, or e-mail to aflesch@mt.gov. Those using a TTY may call (800) 335-7592 or through the Montana Relay Service at 711.

Comments may be submitted in writing at the meeting; by mail to Corrina Collins, MDT Planning, PO Box 201001, Helena, MT 59620-1001; by email to ccollins@mt.gov; or online at http://www.mdt.mt.gov/mdt/comment_form.shtml

Please indicate comments are for the Baker Corridor Planning Study and submit comments by November 6, 2015.

From: Nessel, Jan <jnesset@mt.gov>
Sent: Tuesday, October 13, 2015 9:45 AM
To: Ryan, Lori
Cc: Marosok, Lauren
Subject: NEWS RELEASE: MDT Schedules Public Meeting to Discuss Baker Corridor Planning Study

October 13, 2015

FOR IMMEDIATE RELEASE

Lori Ryan, Public Information Officer, (406) 444-6821, email: lryan@mt.gov

Montana Department of Transportation Schedules Public Meeting to Discuss Baker Corridor Planning Study

Baker - The Montana Department of Transportation (MDT), in partnership with the Federal Highway Administration and in coordination with Fallon County and the City of Baker, is developing a corridor planning study that includes the City of Baker and surrounding vicinity.

There will be a public meeting on Tuesday, Oct. 20, at 6:30 p.m. in Baker at the Fallon County Fairgrounds Exhibit Hall (3440 Montana 7) to discuss the corridor planning study. MDT has scheduled the meeting to present the recommended improvement options and request community feedback on the draft corridor planning study report.

The study area includes U.S. Highway 12 from reference post 79 to reference post 88.1 and Montana Highway 7 from reference post 31.9 to reference post 37.6. The study area includes the City of Baker, the Baker Municipal Airport and a portion of BNSF Railway.

The purpose of the study is to assess current and projected conditions in the Baker area and to develop a package of short- and long-term improvement options addressing the needs identified through the study process. The study will identify feasible improvement options to address safety, operations, and geometric concerns. Additionally, the study will analyze potential impacts of the improvements, identify constraint areas and gather public, resource agency and stakeholder input. This is a planning-level study and is not a design or construction project.

Potential improvement options developed for the study include new roadway alignments to address the issue of freight traffic through the downtown area. Beginning October 7, the draft corridor study report may be viewed online at:

<http://www.mdt.mt.gov/pubinvolve/baker/>

This meeting is open to the public and attendance is encouraged. MDT attempts to provide accommodations for any known disability that may interfere with a person's participation in any department service, program, or activity. For reasonable accommodations to participate in this meeting, please contact Jon Schick at (406) 532-2231 at least two days before the meeting.

Comments may be submitted in writing at the meeting; by mail to Corrina Collins, MDT Planning, PO Box 201001, Helena, MT 59620-1001; by email to ccollins@mt.gov; or online at:

http://www.mdt.mt.gov/mdt/comment_form.shtml

Please note that your comments are for the Baker Corridor Planning Study and submit by November 6, 2015.

Alternative accessible formats of this information will be provided upon request by contacting the Office of Civil Rights, P.O. Box 201001, Helena, MT 59620; (406) 444-9229; fax (406) 444-7243, or e-mail to aflesch@mt.gov. Those using a TTY may call (800) 335-7592 or through the Montana Relay Service at 711

-----end-----

Informational Meeting #2

Tuesday, October 20th, 2015
Fallon County Fairgrounds Exhibit Hall, Baker, MT

NAME:	TITLE:	ADDRESS:	CITY, STATE, ZIP CODE:	EMAIL:
<i>Delia Lusk</i>		<i>Baker</i>		
<i>Carl Lambert</i>	<i>Transportation Commissioner</i>	<i>Box 2</i>	<i>Buaduc, mt 59317</i>	<i>norm@RANGEweb.net</i>
<i>Kyle Medaris</i>	<i>BUSINESS OWNER</i>	<i>Baker</i>		
<i>Sharon Duvell</i>		<i>Baker Box 70</i>	<i>Baker</i>	
<i>Roy Ferrel</i>		<i>Baker Box 70</i>		
<i>Steve Baldwin</i>	<i>Fallon County Comm</i>	<i>Baker Box 913</i>	<i>Baker MT 59313</i>	
<i>Bill Randash</i>	<i>✓ ✓ ✓</i>	<i>Box 1002</i>	<i>✓</i>	
<i>Billy Singer</i>	<i>Resident</i>	<i>Baker Box 537</i>	<i>Baker MT 59313</i>	
<i>Ken Griffith</i>		<i>Baker Box 1137</i>	<i>Baker MT 59313</i>	
<i>Steve Speiggs</i>	<i>Resident</i>	<i>Box 975 Baker MT</i>	<i>Baker mt 59313</i>	
<i>Dale Stewart</i>	<i>Resident</i>	<i>Box 848</i>	<i>Baker mt 59313</i>	
<i>Greg + Judy Anderson</i>		<i>Box 435</i>	<i>Baker MT</i>	
<i>Jenns Tweed</i>	<i>(Area manager of Mitchell's Oil service & Resident N side of tracks)</i>	<i>PO Box 534</i>	<i>BHK, MT.</i>	

Informational Meeting #2

Tuesday, October 20th, 2015
Fallon County Fairgrounds Exhibit Hall, Baker, MT

NAME:	TITLE:	ADDRESS:	CITY, STATE, ZIP CODE:	EMAIL:
Jason Rittal	Ex. Director Eastern Plains EDC	P.O. Box 497	Terry MT 59349	jrittal@midrivers.com
Del Espinosa	DAM Solutions Fleet Man.	Box 898	Baker 59313	deldm@midrivers.com
Shirley Vogel	Fallon Co Times		Baker 59313	sc.times@midriver.com
Kamla Nelson	landowner - truck dispatcher	Box 1304	Baker, 59313	pnelson@midrivers.com
John Beach	Local govt review, ^{Business} landowner	Box 691	BAKER 59313	john.beach@ubienergy.com
ROBERT ZINGER		Box 738	Baker MT 59313	



BAKER CORRIDOR PLANNING STUDY

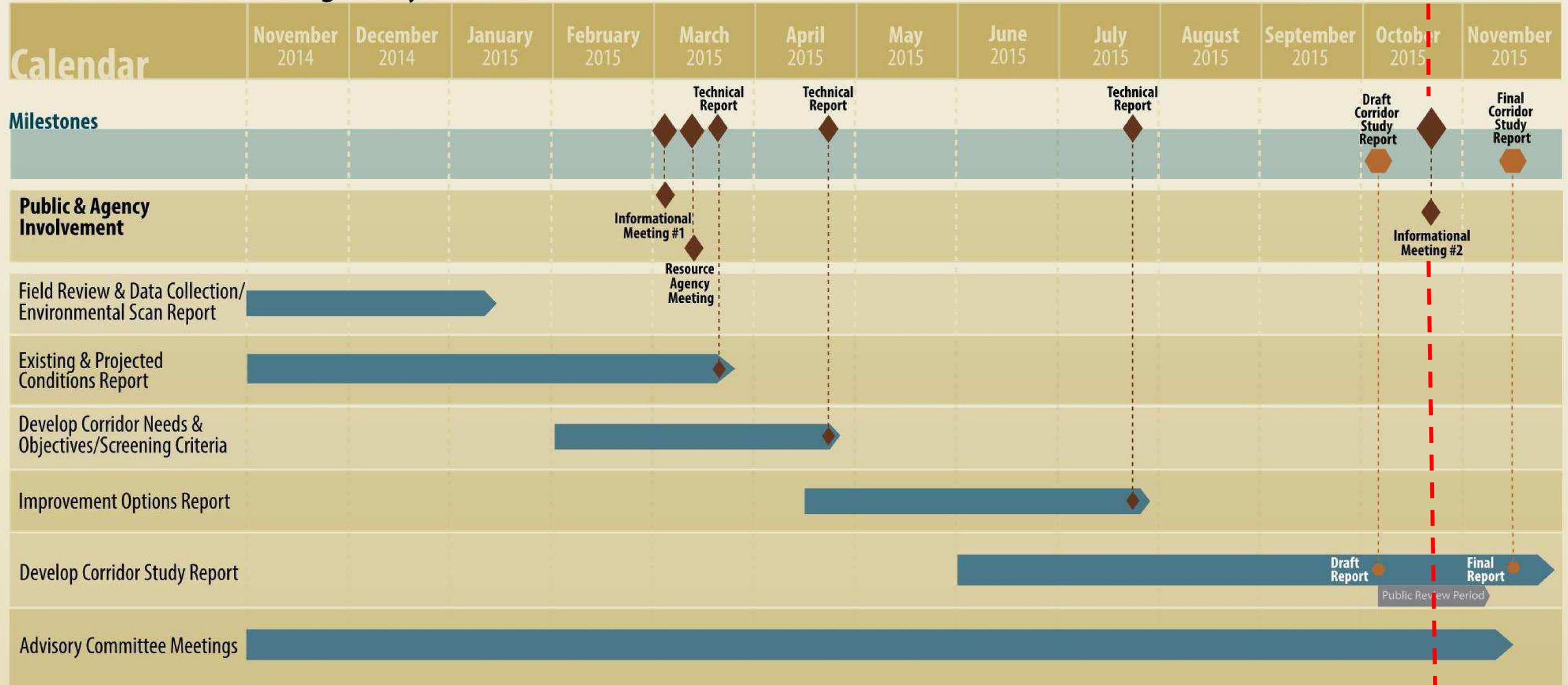
WELCOME

INFORMATIONAL MEETING #2

October 20, 2015
Fallon County Fairgrounds
Exhibit Hall

STUDY SCHEDULE

Baker Corridor Planning Study Schedule



CURRENT TIME



NEEDS AND OBJECTIVES

The planning study developed needs and objectives that address the identified study area deficiencies.

Needs and Objectives:

- Provide a framework for identifying improvements
- Have been developed based on a review of findings from the *Environmental Scan and Existing and Projected Conditions Report*
- Have been developed based on input received from the public, local government, and resource agencies.



NEED #1: Improve operations and safety of US 12 and MT 7 within the study area.

Objectives (To the Extent Practicable):

- 1.a. *Improve the operation of the US 12/MT 7 intersection to accommodate an acceptable level of service (LOS C).*
- 1.b. *Improve the operation of the US 12/MT 7 intersection to accommodate all design vehicles.*
- 1.c. *Improve roadway elements to meet current MDT design criteria.*

NEED #2: Improve mobility on US 12 and MT 7 for people and freight within the study area.

Objectives (To the Extent Practicable):

- 2.a. *Reduce delay due to at-grade railroad crossing closures.*
- 2.b. *Accommodate existing and future capacity demands within the corridor.*
- 2.c. *Preserve and maintain roadway surfacing and bridges on US 12 and MT 7 to accommodate future transportation demands.*

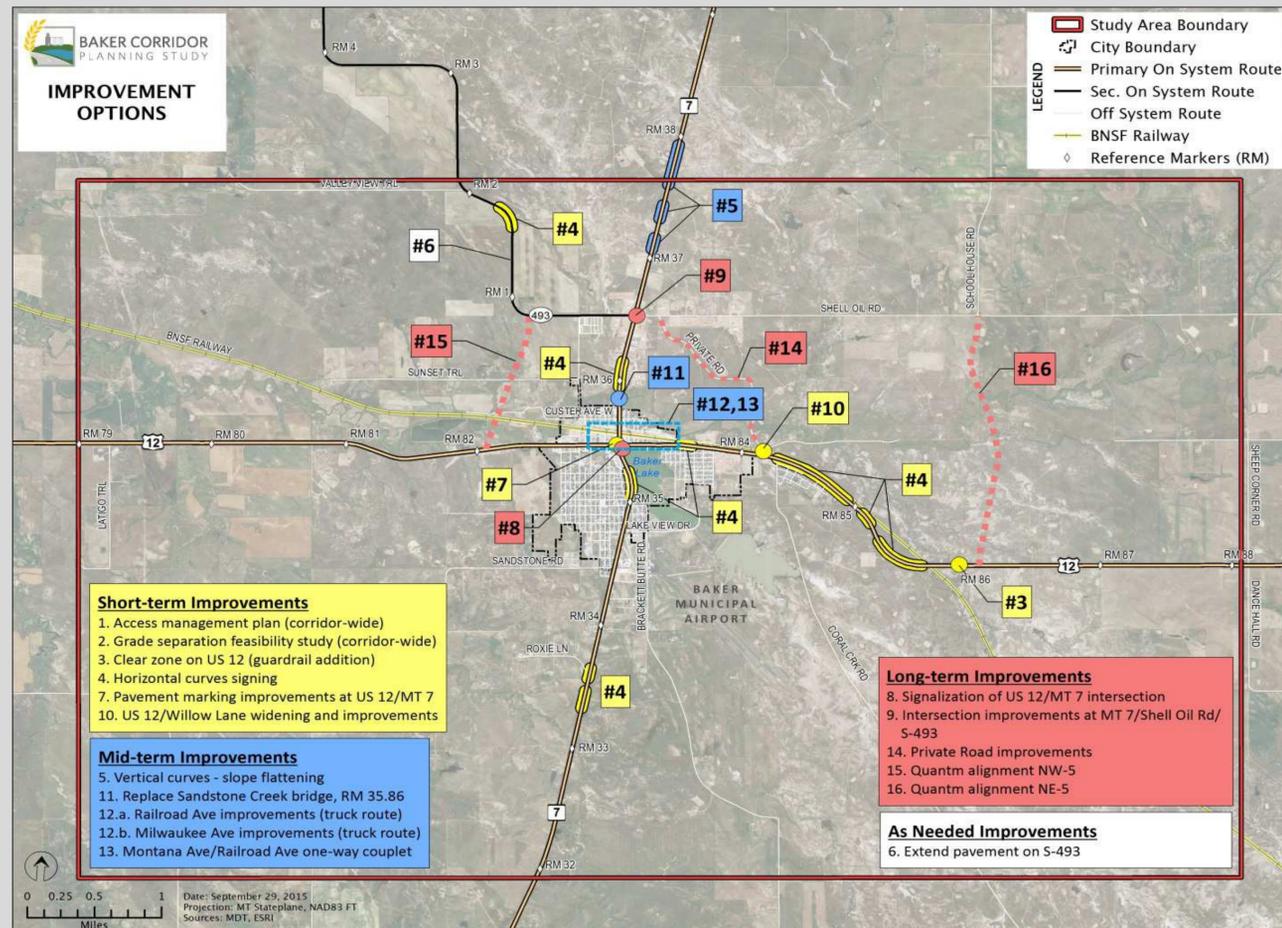
Other Considerations to the extent practicable

- *Minimize the resource impacts of improvement options.*
- *Minimize impacts during construction.*
- *Consider construction feasibility of improvement options.*
- *Consistency with local plans.*

IMPROVEMENT OPTIONS

The planning study developed a package of improvements options which:

- Includes a range of options based on identified corridor transportation issues, goals, and objectives
- Considers input by public, resource agencies, and stakeholders
- Develops planning level cost estimates for each option
- Provides a toolbox of potential options for MDT and local consideration
- Includes an implementation timeframe:
 - Short-term: 0 to 5 years
 - Mid-term: 5 to 10 years
 - Long-term: 10 or more years



Map of Improvement Options

Summary Table of Improvement Options

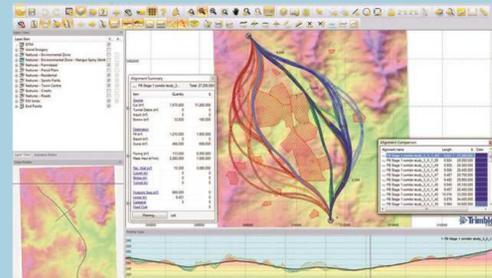
Improvement Option	Location	Description	Timeframe	Potential Funding Source	Agency Responsibility	Cost Estimate
CORRIDOR PLANNING						
1	Access Management Plan	Corridor-wide	Develop an <i>Access Management Plan</i> for the corridor	Short-term	STPP, Local	MDT Local \$100k to \$150k
2	Grade Separation Feasibility Study	Corridor-wide	Conduct grade separation study within city limits; preliminary engineering	Short-term	STPP, Local	MDT Local \$100k to \$125k
GEOMETRIC & PAVEMENT CONDITIONS IMPROVEMENTS						
3	Clear Zone on US 12 near RM 86.18	US 12, RM 86.18	Extend the existing guardrail or place a new guardrail section at this location	Short-term	STPP, HSIP	MDT \$40k to \$42k
4	Horizontal Curve Warning Signs	US 12, RM 83.51, 84.65, 85.32, 85.72; MT 7, RM 33.41, 33.55, 35.15, 36.03; S-493, RM 1.65	Update signing at these locations to provide advanced curve warning signs	Short-term	STPP, HSIP	MDT \$11k to \$12k
5	Vertical Curves	MT 7, between RM 37.10 and 37.83	Improve length of the vertical curves and stopping sight distance	Mid-term	STPP, HSIP	MDT \$1.5M to \$1.7M
6	Extend Pavement on S-493 (Pennel Rd.)	S-493, RM 1.0 and beyond	Increase limits of paved roadway along S-493	As needed	STPS, Local	MDT Local \$1.7M to \$1.8M per mile
INTERSECTION IMPROVEMENTS						
7	Pavement Marking Improvements at US 12/MT 7 Intersection	US 12/MT 7 Intersection	<ul style="list-style-type: none"> Add a narrow striped median at all approaches Relocate the stop bar farther back from the intersection at all approaches Remove on-street parking near the intersection 	Short-term	STPP, HSIP, CMAQ, TA	MDT \$10k to \$11k
8	Future Signalization of US 12/MT 7	US 12/MT 7 Intersection	<ul style="list-style-type: none"> Add left-turn lanes on all approach legs Signalize the intersection Remove adjacent on-street parking per MDT design standards 	Long-term	STPP, HSIP, CMAQ, TA	MDT \$600k to \$650k
9	Intersection Improvements at MT 7/Shell Oil Rd./S-493	MT 7/Shell Oil Rd./S-493 intersection	<ul style="list-style-type: none"> Signalization: Add left-turn lane on northbound approach on MT 7, signalize the intersection Roundabout: Single-lane roundabout 	Long-term	STPP, HSIP, CMAQ	MDT \$600k to \$625k (Signal); \$3.2M to \$3.3M (Roundabout)
10	US 12/Willow Lane Turn Lane Queuing and Railroad Crossing Improvements	US 12/Willow Lane intersection, RM 84.1	<ul style="list-style-type: none"> Widen shoulder along US 12 to provide vehicle queuing Improve approaches of Willow Lane at-grade railroad crossing Widen road approach to a minimum of 32 feet 	Short-term	STPP Local	MDT Local \$550k to \$600k
BRIDGE IMPROVEMENTS						
11	Replace Bridge on MT 7, RM 35.86 (Sandstone Creek)	MT 7, RM 35.86	Replace bridge on MT 7 at RM 35.86	Mid-term	STPB	MDT \$850k to \$900k
ALTERNATIVE TRUCK ROUTES ON EXISTING ROUTES						
12.a	Railroad Ave. Improvements	Railroad Ave. between US 12 and MT 7	<ul style="list-style-type: none"> Pave Railroad Ave. east of S. 3rd St. E to its intersection with US 12 Include signage indicating a truck route on US 12 and MT 7 Intersection improvements at US 12/MT 7, Railroad Ave./3rd St. E, and Railroad Ave./US 12 	Mid-term	Local	Local \$300k to \$325k
12.b	Milwaukee Ave./3rd St. SW Improvements	Milwaukee Ave. W/3rd St. SW	<ul style="list-style-type: none"> Pave 3rd St. railroad crossing between Milwaukee Ave. and Railroad Ave. Include signage indicating a truck route on US 12 and MT 7 Intersection improvements at Milwaukee Ave./MT 7 and Milwaukee Ave./US 12 	Mid-term	Local	Local \$120k to \$130k
13	Montana Ave. (US 12) and Railroad Ave. One-way Couplet	US 12 and Railroad Ave.	<ul style="list-style-type: none"> Intersection signals at US 12/MT 7 and MT 7/Railroad Ave. Update signing and striping for one-way traffic within couplet limits Pave Railroad Ave. east of S. 3rd St. E to its intersection with US 12 	Mid-term	STPP Local	MDT Local \$1.6M to \$1.7M
14	Private Oil Field Road Improvements	Private Road between US 12 and Shell Oil Rd.	Widen road, straighten curves, paving, signing	Long-term	Local	Local NA
ALTERNATIVE TRUCK ROUTES ON NEW ALIGNMENT						
15	Quantm Alignment NW-5	Between US 12, RM 82.1 and S-493, RM 0.8	<ul style="list-style-type: none"> Construct new alignment including a grade separated crossing of the railroad Widen S-493 from RM 0.8 to MT 7 to 32-ft.; intersection improvements at alignment termini 	Long-term	STPP Local	MDT Local \$17M to \$17.5M
16	Quantm Alignment NE-5	Between US 12, RM 86.2 and Shell Oil Rd.	<ul style="list-style-type: none"> Construct a new alignment between US 12 and Shell Oil Rd. Surfacing improvements and widen Shell Oil Rd. to 32-ft. from School House Rd. to MT 7; intersection improvements at alignment termini 	Long-term	STPP Local	MDT Local \$16.3M to \$16.8M

More information on the improvement options can be found in the draft Baker Corridor Planning Study, available online at <http://www.mdt.mt.gov/pubinvolve/baker/>

NEW ALIGNMENT IDENTIFICATION USING QUANTM

What is Quantm?

- The Quantm system is a planning tool that uses computer modeling to automatically generate low cost planning alignments that satisfy defined constraints.
- The model uses study area data to generate alignments:
 - Terrain
 - Environmental Constraints
 - Physical Constraints
 - Engineering Design Criteria
 - Geotechnical and Construction Unit Costs

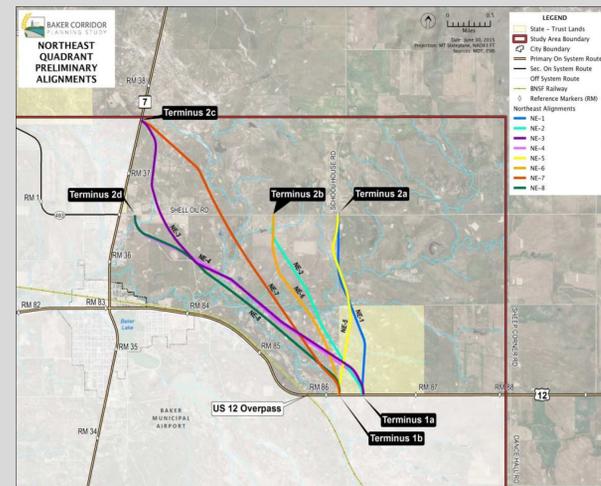
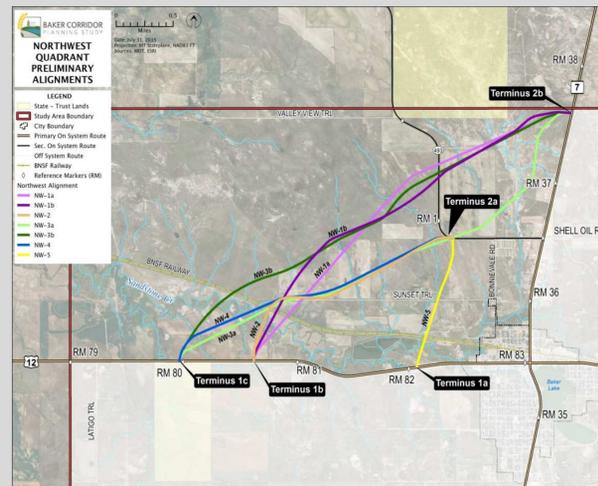
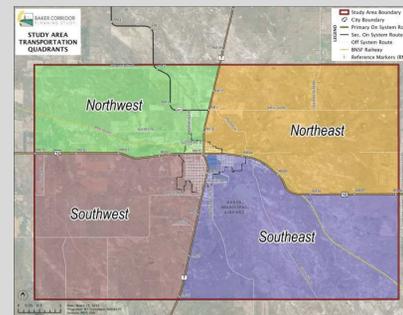


(example screen shot)

New Alignment Development

Alignments were determined using a two level screening process

- First level - Study area quadrant(s) identified
 - The northwest and northeast quadrants were forwarded
- Second level - Alignments developed and rated based on conceptual impacts to:
 - Environmental resources
 - Private property
 - Road crossings
 - Cost



New Alignment Development

Second-Level Screening Results

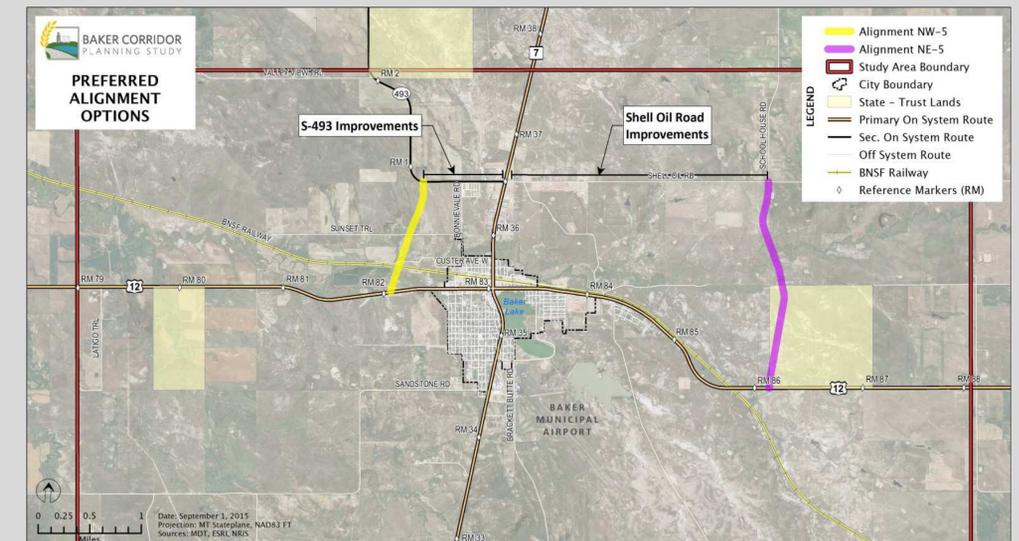
- Numerical rating system ranking impacts
- Final Composite Score and Overall Rating used to determine preferred alignments

New Alignment Rating Results Table

Alignment (Map ID)	Wetland and Water Body Impacts (acres)	Rating	Floodplain Impacts (acres)	Rating	Prime Farmland Impacts (acres)	Rating	Private Property Impacts (acres)	Rating	Total Road Crossings	Rating	Planning-level Cost Estimate	Rating	Composite Rating	Overall Rating
Northwest Quadrant Alignments														
NW-1a	0.06	1	0.43	4	22.34	2	89.10	4	5	6	\$40.03M	5	22	3
NW-1b	0.68	7	0.00	1	25.53	5	96.72	5	4	5	\$37.09M	4	27	6
NW-2	0.16	2	0.70	5	23.92	3	51.21	2	3	1	\$21.78M	2	15	2
NW-3a	0.21	4	0.00	1	38.67	7	115.13	7	11	7	\$44.99M	6	32	7
NW-3b	0.46	6	0.00	1	24.49	4	108.95	6	3	1	\$45.39M	7	25	5
NW-4	0.33	5	0.70	5	27.84	6	59.77	3	3	1	\$25.23M	3	23	4
NW-5	0.19	3	3.73	7	15.48	1	27.13	1	3	1	\$17.13M	1	14	1
Northeast Quadrant Alignments														
NE-1	0.07	1	2.68	3	5.68	4	47.95	1	1	2	\$16.19M	5	16	1
NE-2	0.19	5	2.71	4	4.93	2	53.46	3	4	3	\$15.59M	4	21	3
NE-3	0.15	3	3.73	6	16.35	8	73.41	7	14	8	\$17.20M	8	40	8
NE-4	0.22	6	4.97	7	14.42	7	59.10	4	10	6	\$14.67M	2	32	5
NE-5	0.07	2	2.26	2	5.14	3	49.27	2	0	1	\$16.66M	6	16	1
NE-6	0.18	4	3.09	5	4.24	1	61.30	5	6	4	\$15.31M	3	22	4
NE-7	0.32	8	1.96	1	9.01	5	74.03	8	9	5	\$17.10M	7	34	6
NE-8	0.29	7	6.73	8	10.62	6	62.63	6	11	7	\$14.53M	1	35	7

Final Preferred Alignments

- Alignment NW-5
- Alignment NE-5





BAKER CORRIDOR PLANNING STUDY

INFORMATIONAL MEETING NO. 2

Fallon County Fairgrounds
Exhibit Hall
October 20, 2015
6:30 PM – 8:30 PM

WELCOME AND INTRODUCTIONS

- Introductions

- Partners
 - MDT
 - FHWA
 - Fallon County
 - City of Baker

- Consultant Team



MEETING OUTLINE

- Title VI considerations
- Overview of Corridor Planning Process
- Areas of Consideration
- Needs and Objectives
- Improvement Options
- New Alignment Identification Using Quantm
- Next Steps and Conclusion



TITLE VI CONSIDERATIONS

This meeting is held pursuant to Title VI of the 1964 Civil Rights Act, which ensures that ***no person shall be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination*** on the basis of a protected status under any MDT program or activity.

Additional information is provided in the Title VI pamphlets at the sign-in table.



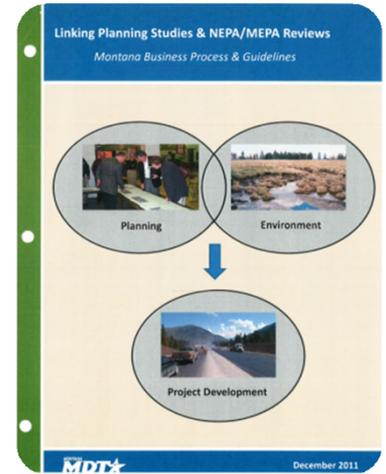


CORRIDOR PLANNING PROCESS

WHAT IS A CORRIDOR PLANNING STUDY?

■ Corridor Planning Studies:

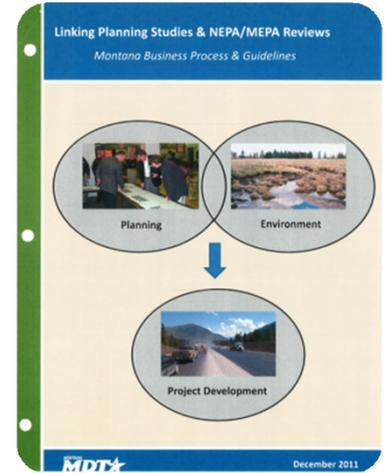
- Develop a high level analysis of study area conditions
- Define transportation issues and areas of consideration
- Provide for early identification of potential social, economic, and environmental impacts
- Identify a range of cost-effective and feasible transportation improvement strategies
- Facilitate continued public, resource agency, and stakeholder participation



MDT Corridor Study Guidance Document

WHAT A CORRIDOR STUDY IS NOT

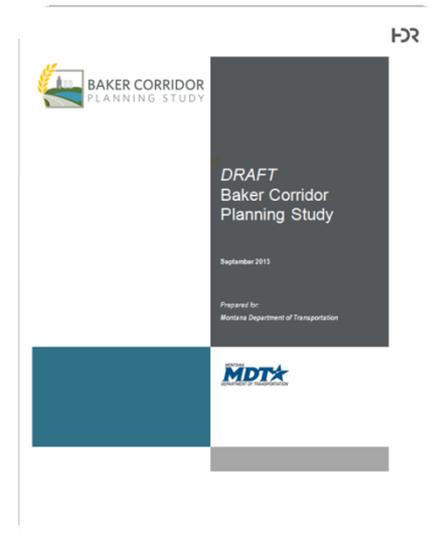
- Corridor Planning Studies are **not**:
 - A preliminary or final design project
 - A construction or maintenance project
 - A right-of-way acquisition project
 - An environmental compliance document



MDT Corridor Study Guidance Document

GOALS AND PURPOSE OF STUDY

- The *Baker Corridor Planning Study*:
 - Included early and frequent coordination with the public and resources agencies
 - Identified study area needs and objectives
 - Identified and considered possible impacts and constraints
 - Identified short- and long-term improvements
 - Developed planning-level cost estimates
 - Results developed may be used to streamline future environmental compliance phases



Find the draft Baker Corridor Planning Study on the study website.

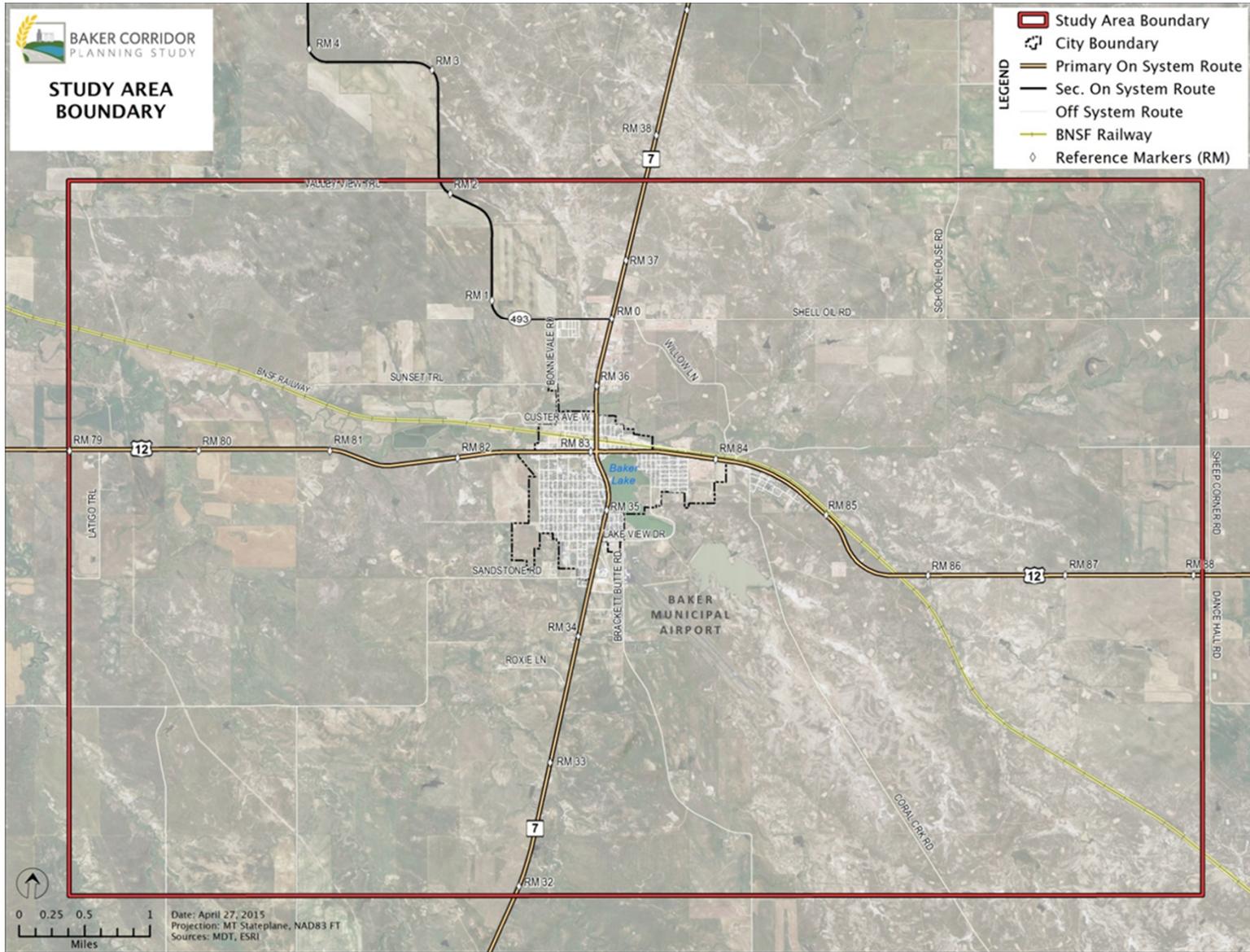


STUDY PROCESS OVERVIEW

- Existing and Projected Conditions
- Informational Meeting #1
- Resource Agency Meeting
- Needs and Objectives
- Improvement Options
- Development of New Alignment Options using Quantm
- Draft Corridor Planning Study
- **Informational Meeting #2** ←
- Public and Agency Review Period (30 days)
- Final Corridor Planning Study

We are Here

STUDY AREA





EXISTING AND PROJECTED CONDITIONS

Areas of Consideration

AREAS OF CONSIDERATION

Transportation System

■ Bridges

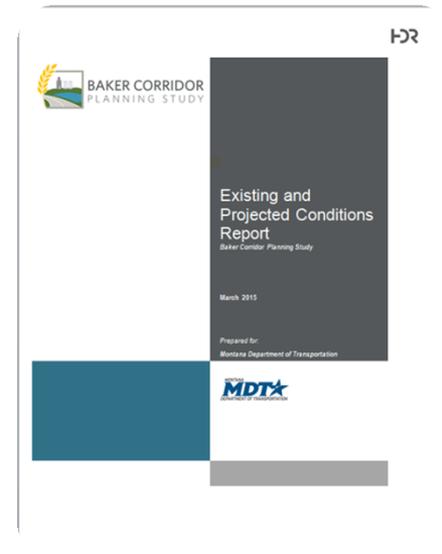
- Width and deck condition examined
- MT 7 Bridge, RM 35.86, rated “functionally obsolete”

■ Pavement Condition

- RM 82.6 to 83.8 in “poor” condition

■ Railroad

- 5 crossings within study area
- Delay from crossing closures



Find the Existing and Projected Conditions Report on the study website.

AREAS OF CONSIDERATION

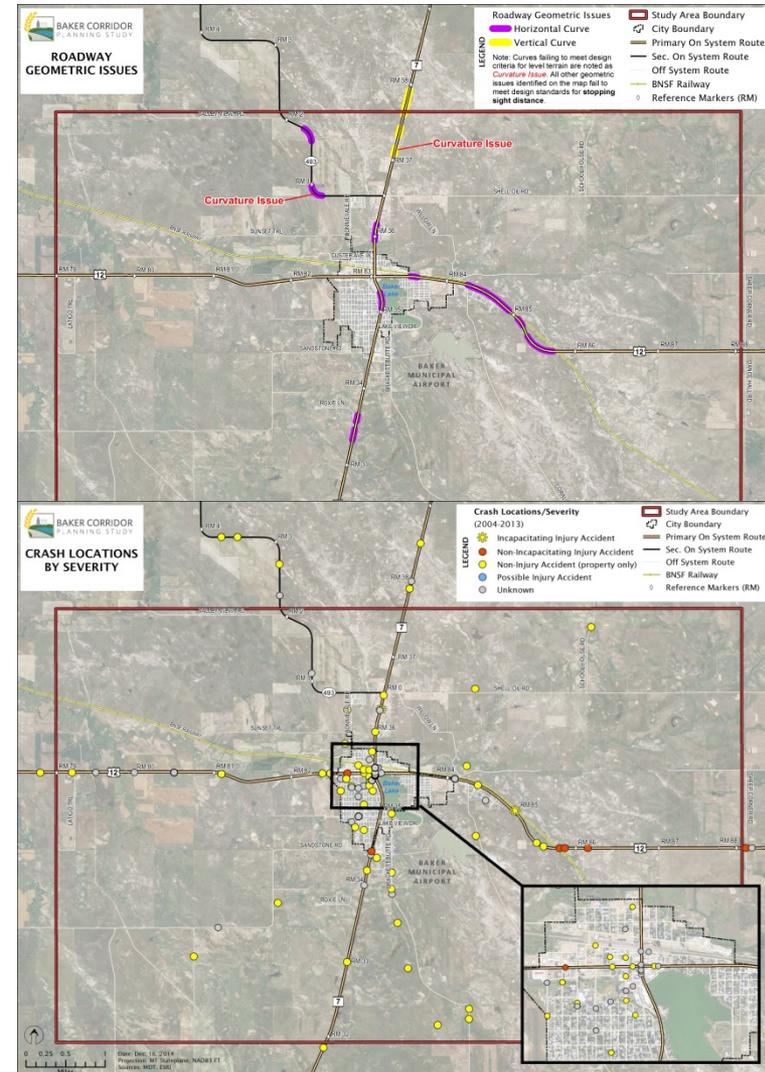
Transportation System

■ Roadway Geometrics

- Areas not meeting current MDT design criteria for curvature and stopping sight distance:
 - Horizontal curves: 9 curves
 - Vertical curves: 3 curves
- Clear zone on US 12 at RM 86.18

■ Safety

- 10-year crash analysis
- Rear end and angle crashes within city limits
- Fixed object and roll over crashes in rural areas



AREAS OF CONSIDERATION

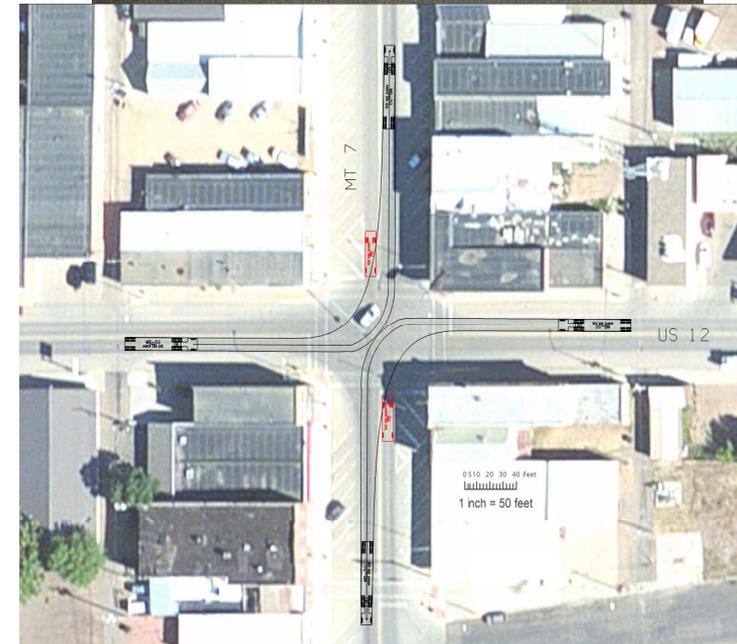
Transportation System

■ Current and Future Traffic Conditions

- High % of heavy vehicles
- Three traffic growth scenarios modeled

■ Intersections

- Turning movements for trucks
- Operations (LOS)
- Delay issues projected:
 - US 12 & MT 7 intersection
 - MT 7 & Shell Oil Rd/S-493 intersection



AREAS OF CONSIDERATION

Environmental Setting

■ Physical environment

- Land use (farmland, oil and gas development)
- Sandstone Creek (floodplain)
- Wetlands and other water bodies



■ Biological environment

- Fish, wildlife, and vegetation
- Greater sage-grouse habitat



■ Social and Cultural

- Historic properties and features
- Parks and recreation areas



NEEDS AND OBJECTIVES

NEEDS AND OBJECTIVES

NEED #1: Improve operations and safety of US 12 and MT 7 within the study area.

Objectives (To the Extent Practicable):

- 1.a. *Improve the operation of the US 12/MT 7 intersection to accommodate an acceptable level of service (LOS C).*
- 1.b. *Improve the operation of the US 12/MT 7 intersection to accommodate all design vehicles.*
- 1.c. *Improve roadway elements to meet current MDT design criteria.*

NEEDS AND OBJECTIVES

NEED #2: Improve mobility on US 12 and MT 7 for people and freight within the study area.

Objectives (To the Extent Practicable):

- 2.a. *Reduce delay due to at-grade railroad crossing closures.*
- 2.b. *Accommodate existing and future capacity demands within the corridor.*
- 2.c. *Preserve and maintain roadway surfacing and bridges on US 12 and MT 7 to accommodate future transportation demands.*

NEEDS AND OBJECTIVES

Other Considerations:

- Minimize the resource impacts of improvement options.
- Minimize impacts during construction.
- Consider construction feasibility of improvement options.
- Consistency with local plans.



IMPROVEMENT OPTIONS

IMPROVEMENT OPTIONS

- Includes range of options based on identified corridor transportation issues, needs and objectives
- Considers input by public, resource and other agencies, and stakeholders
- Develops planning level cost estimates for each option
- Provides a toolbox of potential options for MDT and local consideration
- Implementation timeframe
 - Short-term: 0 to 5 years
 - Mid-term: 5 to 10 years
 - Long-term: 10 or more years



IMPROVEMENT OPTIONS

- Project development of any of the improvement options depends on funding availability, right-of-way needs, and other system priorities within the MDT Glendive District.
- Implementation of improvement options located off system (i.e., not on an MDT-maintained route) would be a local government responsibility
- Implementation responsibility includes both MDT **AND** local jurisdictions.
- At present time, funding is not available to implement any of the improvement options identified by this study.



IMPROVEMENT OPTIONS

Corridor Planning

Access Management Plan

- *Location: Corridor-wide*
- *Estimated Cost: \$100k to \$125k*

Grade Separation Feasibility Study

- *Location: Corridor-wide*
- *Estimated Cost: \$100k to \$150k*



IMPROVEMENT OPTIONS

Geometric and Pavement Condition Improvements

Clear Zone Guardrail Placement at Drainage Structure

- *Location: US 12 near RM 86.18*
- *Estimated Cost: \$40k to \$42k*

Horizontal Curve Warning Signs

- *Location: US 12, RM 83.51, 84.65, 85.32, 85.72; MT 7, RM 33.41, 33.55, 35.15, 36.03; S-493, RM 1.65*
- *Estimated Cost: \$11k to \$12k*



IMPROVEMENT OPTIONS

Geometric and Pavement Condition Improvements

Vertical Curvature Improvements

- *Location: MT 7 RM 37.1 to 37.8*
- *Estimated Cost: \$1.5M to \$1.7M*



Extend Pavement on S-493 (Pennel Road)

- *Location: S-493 approx. RM 1.0*
- *Estimated Cost: \$1.7M to \$1.8M per mile*



IMPROVEMENT OPTIONS

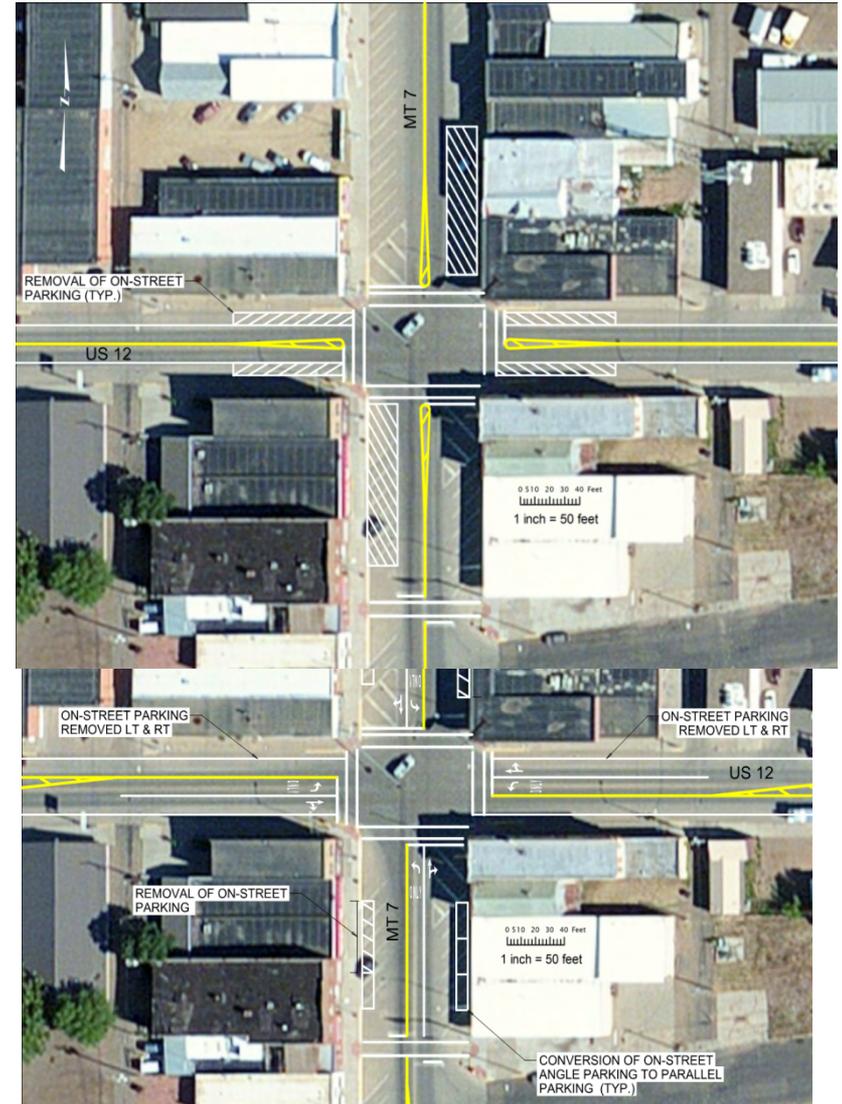
Intersection Improvements

Pavement Marking Improvements at US 12/MT 7 Intersection

- *Location: US 12/MT 7 Intersection*
- *Estimated Cost: \$10k to \$11k*

Future Signalization of US 12/MT 7

- *Location: US 12/MT 7 intersection*
- *Estimated Cost: \$600k to \$650k*



IMPROVEMENT OPTIONS

Intersection Improvements

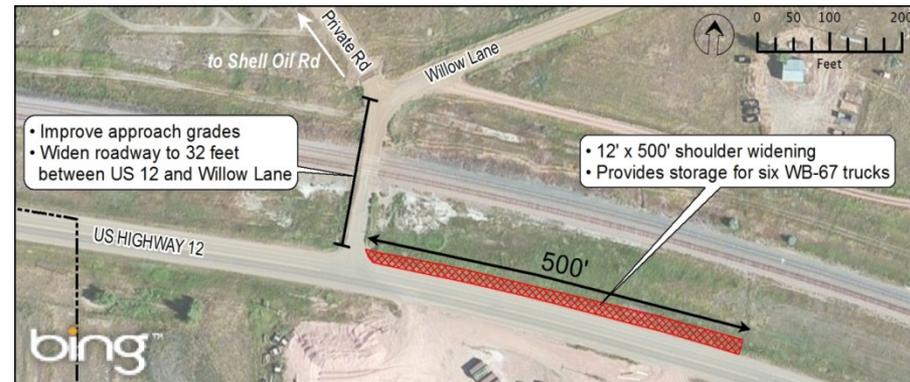
Intersection Improvements at MT 7/ Shell Oil Rd/S-493

- *Location: MT 7/Shell Oil Rd/S-493*
- *Estimated Cost: \$600k to \$625k
(Signal)*
*\$3.2M to \$3.3M
(Roundabout)*



US 12/Willow Lane Turn Lane Storage and Railroad Crossing Improvements

- *Location: US 12/Willow Lane*
- *Estimated Cost: \$550k to \$600k*



IMPROVEMENT OPTIONS

Bridge Improvements

Replace Bridge on MT 7 (Sandstone Creek)

- *Location: MT 7 RM 35.86*
- *Estimated Cost: \$850k to \$900k*



IMPROVEMENT OPTIONS

Alternative Truck Routes on Existing Routes

Railroad Avenue Improvements

- *Location: Railroad Ave between US 12 and MT 7*
- *Estimated Cost: \$300k to \$325k*

Milwaukee Avenue and 3rd Street SW Improvements

- *Location: Milwaukee Ave/3rd St*
- *Estimated Cost: \$120k to \$130k*



IMPROVEMENT OPTIONS

Alternative Truck Routes on Existing Routes

Montana Avenue (US 12) and Railroad Avenue One-way Couplet

- *Location: US 12 and Railroad Ave*
- *Estimated Cost: \$1.6M to \$1.7M*



Private Oil Field Road Improvements

- *Location: Private road between US 12 and Shell Oil Road*
- *Estimated Cost: NA, variable on level of improvement*



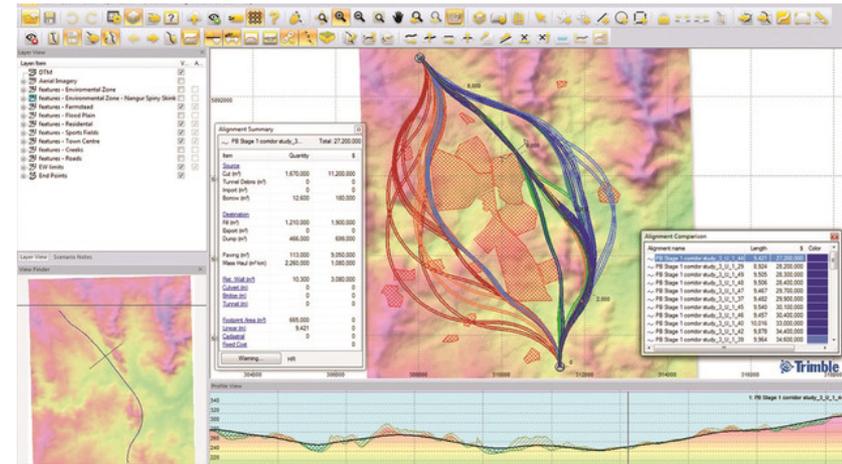


QUANTM ALIGNMENT IDENTIFICATION

QUANTM ALIGNMENT IDENTIFICATION

Quantm Alignment Analysis

- Planning tool using computer modeling to generate low-cost alignments
- Alignments satisfy defined constraints
- Input study area data into model
 - Terrain
 - Environmental Constraints
 - Physical Constraints
 - Engineering Design Criteria
 - Geotechnical and Construction Unit Costs



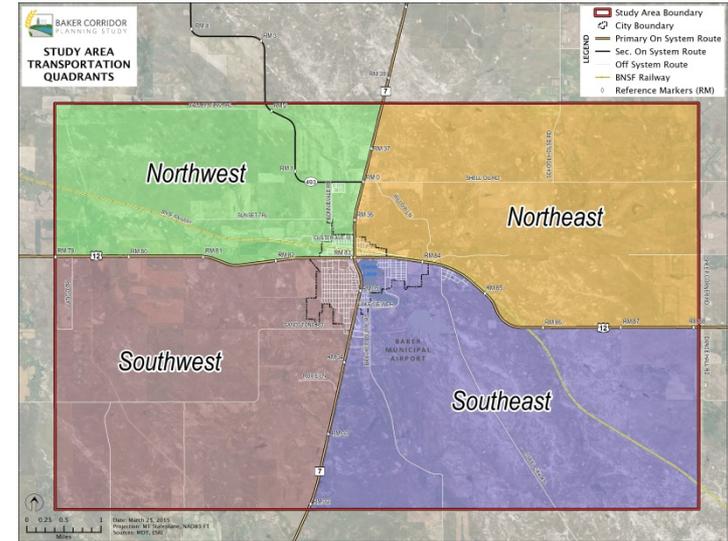
(example screen shot)

QUANTM ALIGNMENT IDENTIFICATION

Two level screening process

- First Level Screening
 - Study area quadrant(s) identified
 - Percentages of truck traffic by quadrant examined
 - Quadrants evaluated against needs and objectives

- Second Level Screening - Alignments developed and rated based on conceptual impacts to:
 - Environmental resources
 - Private property
 - Road crossings
 - Cost



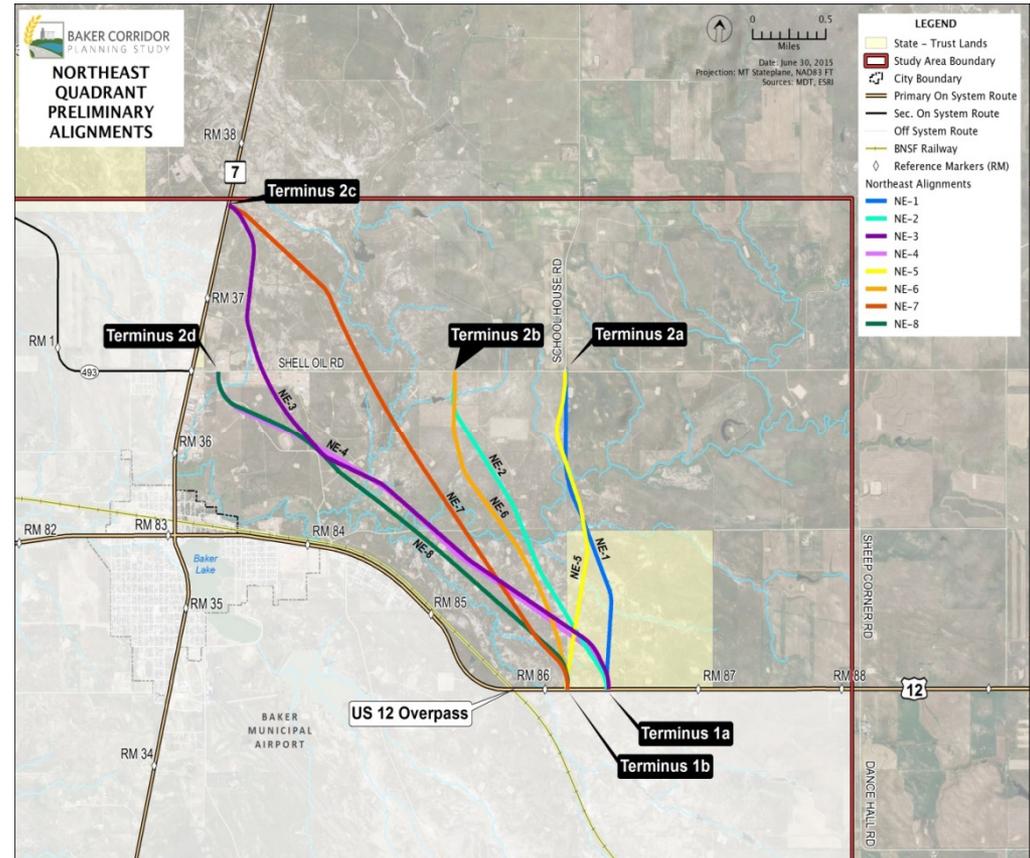
Quadrant	Total Vehicles	Heavy Vehicles	Heavy Vehicle %
Northwest	1,560	172	11%
Northeast	1,384	238	17%
Southeast	1,111	33	3%
Southwest	1,089	36	3%

Quadrant	Screening Criteria		Quadrant Advanced?
	1. Would the option improve operations within the corridor?	2. Would the option improve mobility within the corridor?	
Northwest	YES	YES	YES
Northeast	YES	YES	YES
Southeast	NO	NO	NO
Southwest	NO	NO	NO

QUANTM ALIGNMENT IDENTIFICATION

Preliminary Alignments

- Northwest quadrant
 - 7 alignments analyzed
 - Grade separation of railroad
- Northeast quadrant
 - 8 alignments analyzed



QUANTM ALIGNMENT IDENTIFICATION

Second Level Screening Results

- Numerical rating system ranking impacts
- Final composite score and rating

Alignment (Map ID)	Wetland and Water Body Impacts (acres)	Rating	Floodplain Impacts (acres)	Rating	Prime Farmland Impacts (acres)	Rating	Private Property Impacts (acres)	Rating	Total Road Crossings	Rating	Planning-level Cost Estimate	Rating	Composite Rating	Overall Rating
Northwest Quadrant Alignments														
NW-1a	0.06	1	0.43	4	22.34	2	89.10	4	5	6	\$40.03M	5	22	3
NW-1b	0.68	7	0.00	1	25.53	5	96.72	5	4	5	\$37.09M	4	27	6
NW-2	0.16	2	0.70	5	23.92	3	51.21	2	3	1	\$21.78M	2	15	2
NW-3a	0.21	4	0.00	1	38.67	7	115.13	7	11	7	\$44.99M	6	32	7
NW-3b	0.46	6	0.00	1	24.49	4	108.95	6	3	1	\$45.39M	7	25	5
NW-4	0.33	5	0.70	5	27.84	6	59.77	3	3	1	\$25.23M	3	23	4
NW-5	0.19	3	3.73	7	15.48	1	27.13	1	3	1	\$17.13M	1	14	1
Northeast Quadrant Alignments														
NE-1	0.07	1	2.68	3	5.68	4	47.95	1	1	2	\$16.19M	5	16	1
NE-2	0.19	5	2.71	4	4.93	2	53.46	3	4	3	\$15.59M	4	21	3
NE-3	0.15	3	3.73	6	16.35	8	73.41	7	14	8	\$17.20M	8	40	8
NE-4	0.22	6	4.97	7	14.42	7	59.10	4	10	6	\$14.67M	2	32	5
NE-5	0.07	2	2.26	2	5.14	3	49.27	2	0	1	\$16.66M	6	16	1
NE-6	0.18	4	3.09	5	4.24	1	61.30	5	6	4	\$15.31M	3	22	4
NE-7	0.32	8	1.96	1	9.01	5	74.03	8	9	5	\$17.10M	7	34	6
NE-8	0.29	7	6.73	8	10.62	6	62.63	6	11	7	\$14.53M	1	35	7

IMPROVEMENT OPTIONS

Alternative Truck Routes on New Alignment

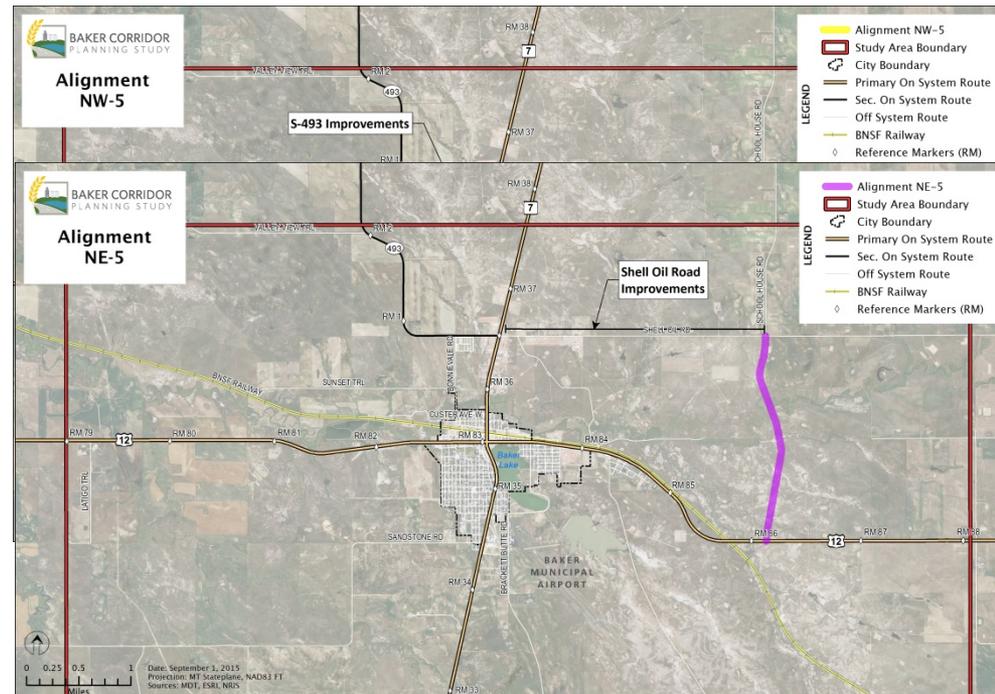
Quantm Recommended Alignments:

Alignment NW-5

- *Location: Between US 12 and S-493/MT7*
- *Estimated Cost: \$17M to \$17.5M*

Alignment NE-5

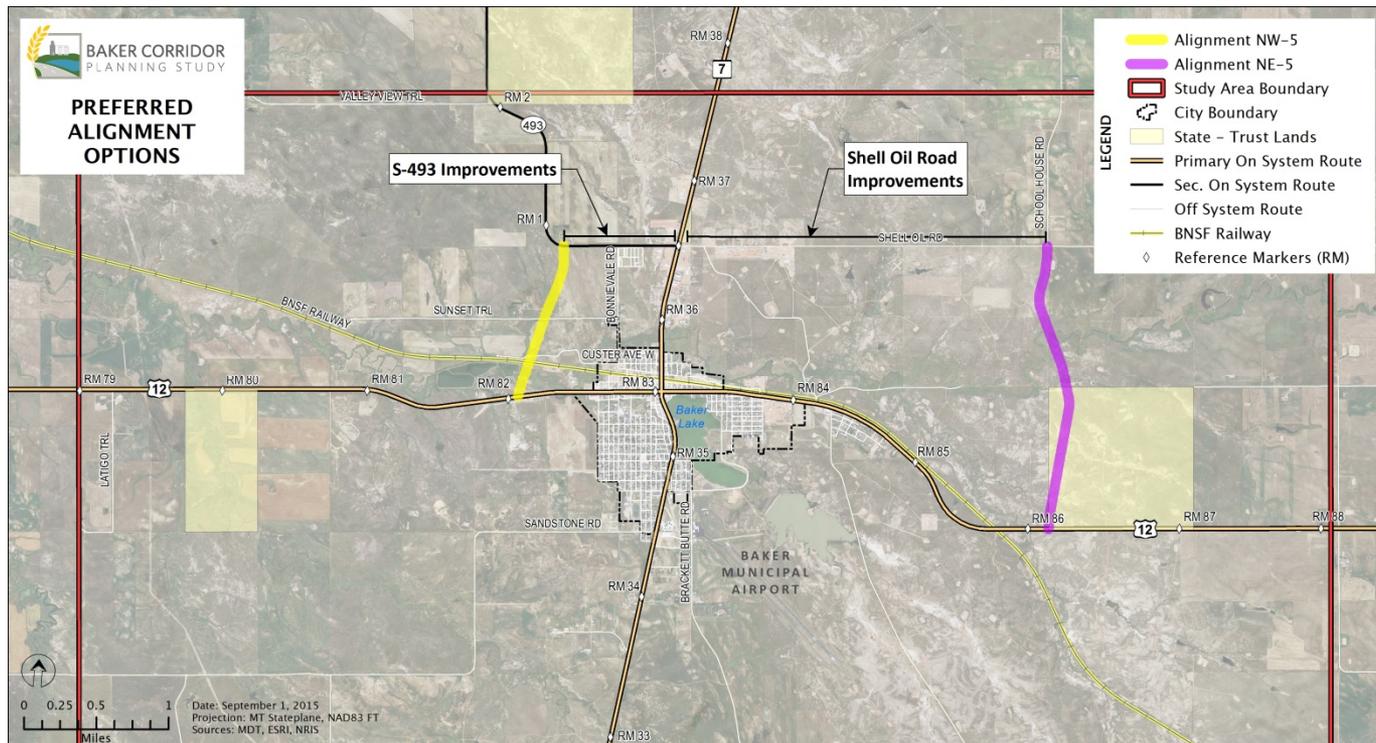
- *Location: Between US and Shell Oil Road/MT*
- *Estimated Cost: \$16.3M to \$16.8M*



QUANTM ALIGNMENT IDENTIFICATION

Final Quantm Recommended Alignments

- Alignment NW-5
- Alignment NE-5





NEXT STEPS AND CONCLUSION

NEXT STEPS...

- Receive and consider comments on draft corridor study report
 - Comment period runs from October 7 through November 6, 2015
 - **Please submit comments by November 6, 2015**
- Review comments with planning study team
- Prepare final corridor study report
- Post final report to study website, distribute, and conclude process



SUBMIT COMMENTS

Written comments are encouraged.

Ways to submit a comment:

- Leave a comment sheet with us tonight
- Provide a comment via project website:

<http://www.mdt.mt.gov/pubinvolve/baker/>

- Mail or Email comments to:

Corrina Collins

MT Department of Transportation

2701 Prospect Avenue

P.O. Box 201001

Helena, MT 59620-1001

Email: ccollins@mt.gov

Tel: (406) 444-9131



CONCLUSION

- Questions/comments?
- For more information
 - Study website:
<http://www.mdt.mt.gov/pubinvolve/baker/>
 - Study newsletters
 - Study contacts



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Baker Corridor Planning Study

Project Newsletter No. 1 | February 2015

In This Issue	
Study Description	1
What is a Corridor Planning Study?	1
Study Area	2
Study Area Information	3
Schedule	3
Public Involvement Opportunities	4
Study Contacts	4

STUDY DESCRIPTION

The Montana Department of Transportation (MDT), in partnership with the Federal Highway Administration (FHWA), and in coordination with Fallon County and the City of Baker, is developing a corridor planning study that includes the City of Baker and surrounding vicinity. A need has been identified for a planning study to examine highway freight through the downtown area, as well as the internal transportation network, highway and railroad issues, and other identified transportation needs.

The goal of the study is to assess current and projected conditions in the Baker area and to develop a package of short- and long-term improvement options addressing the needs identified through the study process. The study will identify feasible improvement options to address safety, operations, and roadway areas of concern. Additionally, the study will analyze potential impacts of the improvements; identify constraint areas; and gather public, resource agency, and stakeholder input.

WHAT IS A CORRIDOR PLANNING STUDY?

A Corridor Planning Study is a pre-National Environmental Policy Act (NEPA)/Montana Environmental Policy Act (MEPA) planning study which provides for early planning-level coordination with the community, local government, resource agencies, and other stakeholders to identify issues and potential transportation improvement options within the study area. The Baker Corridor Planning Study will follow the MDT Corridor Planning Process which provides a linkage between early transportation planning and the environmental review process. The process includes a planning-level analysis of the existing transportation system and the environmental setting of the study area to identify needs and constraints.

The Corridor Planning Process can benefit future project development by streamlining the environmental review process and ultimately reducing costs. This process will develop goals and objectives, identify and analyze improvement options, eliminate non-feasible options, and identify potential environmental impacts and other constraints through a public involvement process.

The Corridor Planning Process is distinct from the NEPA/MEPA environmental compliance documentation and does not include design, right-of-way acquisition, or construction phases for any individual project.



INFORMATIONAL MEETING NO. 1

Everyone is welcome to attend!

WHEN

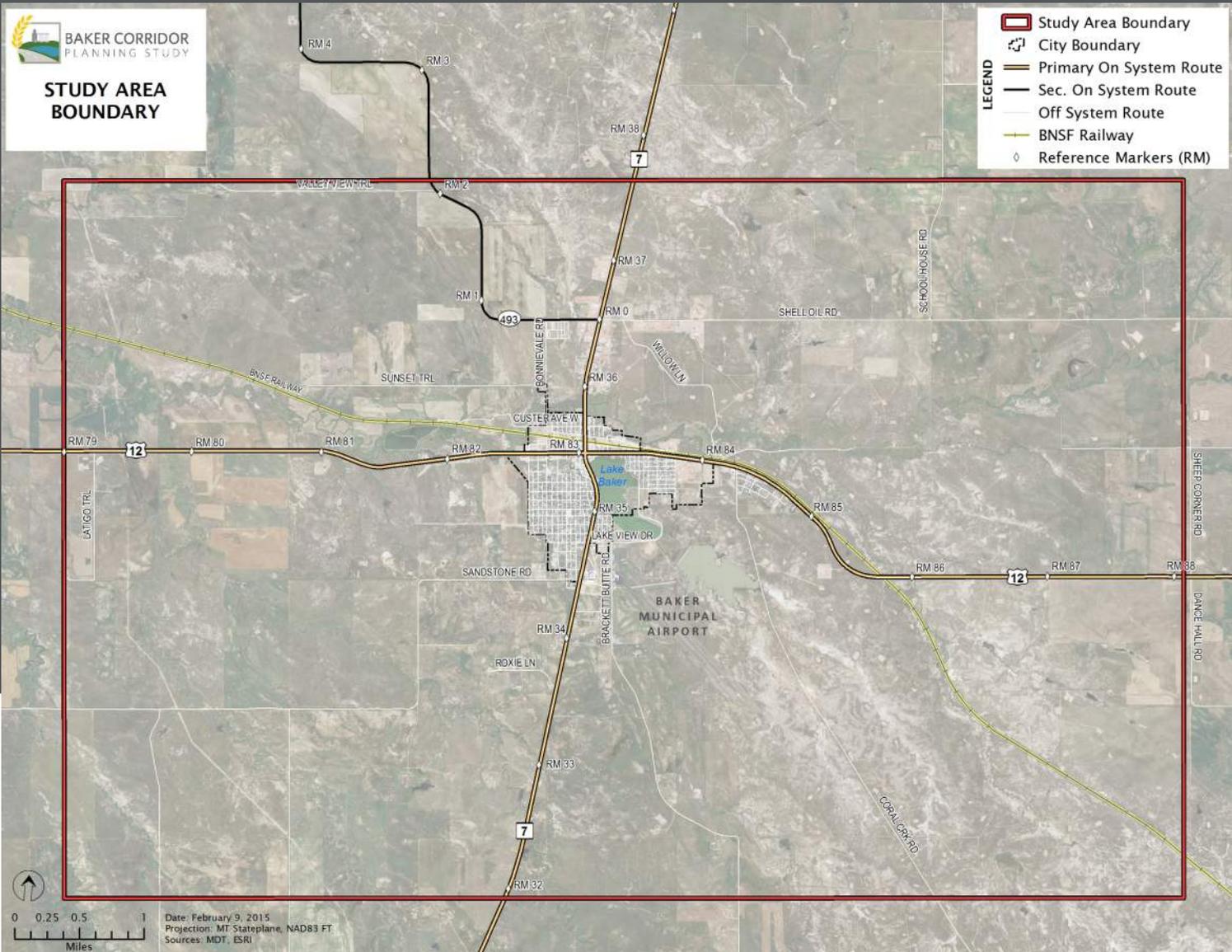
Thursday, March 5th, 2015
6:00-8:00 p.m.

WHERE

Fallon County Fairgrounds Exhibit Hall
3440 Montana 7, Baker, MT

WHY

- Introduce the study and corridor planning process
- Present the existing conditions review
- Identify issues and constraints within the Study Area



Study Area

The study area includes U.S. Highway 12 (US 12) from Reference Marker (RM) 79 to RM 88.1 and Montana Highway 7 (MT 7) from RM 31.9 to RM 37.6. The City of Baker is within the study area, as well as Baker

Municipal Airport and the BNSF Railway. Land use in the study area is a diverse mix and includes rural residential, agricultural, oil and gas development, and recreational areas, among others.



Study Schedule

It is anticipated that the Baker Corridor Planning Study will be completed within a twelve-month period. Per the assumed schedule, all work on this study is expected to be completed by October 31, 2015.

Study Area Information

The following is a brief summary of initial study area information gathered through preliminary analysis of existing data and on-site review. This list is not exhaustive and additional information may be added as the planning process progresses.

Existing Roadway Conditions

- Highways US 12 and MT 7 are both functionally classified as Rural Minor Arterial routes on the Primary Highway System.
 - Several areas have been identified along the highway systems that do not meet existing MDT design standards.
- The main intersection of US 12 and MT 7 in downtown Baker has insufficient area for standard semitrailers to make right-turn movements without conflicting with either the angled parking or over-tracking into the opposing traffic lane.
- Based on assumed traffic growth and existing intersection configuration, the intersection of US 12 and MT 7 will experience increased delays and operate at a failing level of service in the future.

Vehicular Traffic

- The US 12 and MT 7 intersection in downtown Baker has an average annual daily traffic volume of approximately 3,750 vehicles per day and experiences a high percentage of heavy vehicles (requiring a Class B license).

- High volumes of heavy vehicles make turns from southbound MT 7 to eastbound US 12 and westbound US 12 to northbound MT 7 throughout the day in addition to the peak period.

Safety

- Accident records spanning the 10-year period of 2004 to 2013 for the Study Area were examined. Recorded over this period were a total of 57 crashes along US 12 and 35 crashes along MT 7. The crash rate within the Study Area for both the US 12 and MT 7 corridors is below the overall statewide average.

Bridges

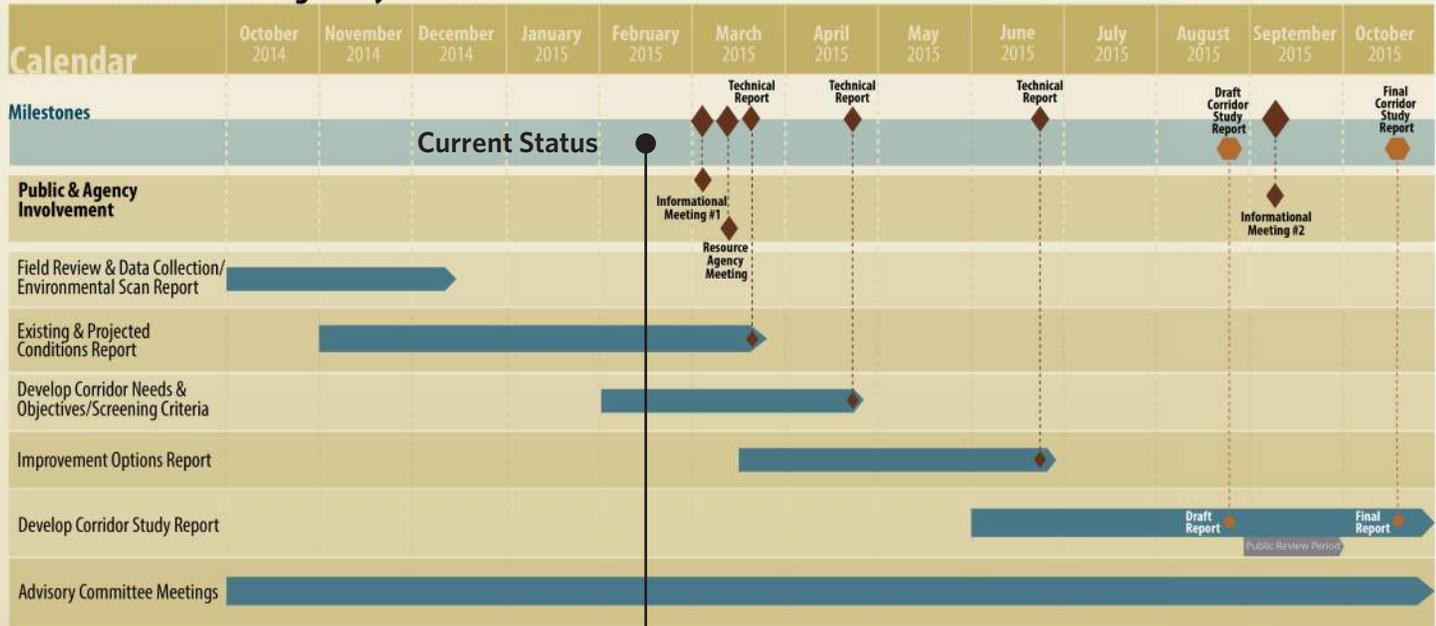
- Built in 1941, the bridge located just north of Baker on MT 7 spanning Sandstone Creek has been categorized as Functionally Obsolete and eligible for rehabilitation.

Environmental Conditions

- Sandstone Creek is a major drainage that crosses the Study Area. A variety of other surface waters, including Lake Baker, as well as many unnamed streams, natural drainages, wetlands, and ponds are present in the Study Area. An MDT wetland mitigation site exists south of Baker along MT 7.

- Historical flooding events have occurred within the Study Area. Regulated floodplains exist on and along Sandstone Creek within the Study Area.
- Soil surveys indicate the presence of prime farmland within the Study Area. The Study Area contains irrigated agriculture and associated irrigation canals, ditches, or pressurized systems.
- Hundreds of oil and gas wells exist in the entire eastern half of the Study Area.
- Two threatened and endangered species potentially can be found within the Study Area.
- There are multiple recreational properties located within the Study Area protected under federal law.
- Approximately 25 historic or archaeological properties have been recorded and are located within the Study Area, including historic buildings, bridges, a railroad, and several prehistoric sites.

Baker Corridor Planning Study Schedule



PUBLIC INVOLVEMENT OPPORTUNITIES

Information sharing is at the heart of any public process and is important to the overall success of the corridor study planning process. Public involvement opportunities for the planning study will include informational meetings held in Baker, as well as opportunities to review and comment on ongoing study deliverables. The informational meetings will be advertised in advance through local media and the study mailing list. See page 1 of this newsletter for information on Public Informational Meeting #1.

A project website has also been developed at <http://www.mdt.mt.gov/pubinvolve/baker> to provide online opportunities to review and comment on the Baker Corridor Planning Study. The study team will compile and consider all comments received during the planning study process. To join the mailing list, please contact Jon Schick at jon.schick@hdrinc.com.



CONTACTS

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Jon Schick
HDR Project Manager

406.532.2231
jon.schick@hdrinc.com

Website

www.mdt.mt.gov/pubinvolve/baker

MDT attempts to provide accommodations for any known disability that may interfere with a person participating in any service, program, or activity associated with this study. Alternative accessible formats of this information will be provided upon request. For further information, call (406) 447-5000, TTY (800) 335-7592, or Montana Relay at 711. Accommodation requests must be made at least 48 hours prior to the scheduled activity and / or meeting.



PO Box 201001
Helena, MT 59620-1001

Baker Corridor Planning Study

Project Newsletter No. 2 | *September 2015*

In This Issue

Corridor Planning Study Update	1
Corridor Needs & Objectives	2
Improvement Options Summary	2
Improvement Options Map	3
Public Involvement Opportunities	4
Next Steps	4
Study Contacts	4

Corridor Planning Study Update

The Montana Department of Transportation (MDT), in partnership with the Federal Highway Administration (FHWA), and in coordination with Fallon County and the City of Baker, has developed a corridor planning study that includes the City of Baker and surrounding vicinity. The study purpose is to identify issues, constraints, and potential improvement options to address traffic operations and mobility within the study area.

The study area includes U.S. Highway 12 from Reference Marker (RM) 79.0 to RM 88.1 and Montana Highway 7 from RM 31.9 to RM 37.6. The study area includes the City of Baker, the Baker Municipal Airport and a portion of BNSF Railway.

The Baker Corridor Planning Study was developed collaboratively by a planning study team that included members from MDT, FHWA, and Fallon County and involved outreach to the public, key stakeholders, and resource agencies. The Baker Corridor Planning Study followed the MDT Corridor Planning Process which provides a linkage between early transportation planning and the environmental review process. The study is a pre-NEPA/

MEPA analysis that developed needs and objectives, identified and analyzed improvement options, eliminated non-feasible options, and identified potential environmental impacts and other constraints through a public involvement process. Improvement options developed for the study include new road alignments to address the issue of freight traffic through the downtown area. The study also includes documentation of potential funding mechanisms for improvement options.

The draft Baker Corridor Planning Study will be available for review and comment on October 7th, 2015. The draft report can be accessed from the study website at:

<http://www.mdt.mt.gov/pubinvolve/baker/>

The public comment period ends November 6, 2015.



INFORMATIONAL MEETING NO. 2

Everyone is welcome to attend!

WHEN

Tuesday, October 20, 2015
6:30-8:30 p.m.

WHERE

Fallon County Fairgrounds Exhibit Hall
3440 Montana 7, Baker, MT

WHY

- Present the draft corridor study
- Present the various improvement options developed for the study area
- Gather community feedback on the draft corridor study

Corridor Needs and Objectives

Needs and objectives are necessary to provide a framework for identifying improvements. The needs and objectives for this study have been developed based on existing and projected conditions within the study area, as well as input received

from the public, local government, and resource agencies. The needs, objectives, and other considerations listed below are in no specific order.

Need # 1: Improve operations and safety of US 12 and MT 7 within the study area to the extent practicable.

Objectives

- 1.a. Improve the operation of the US 12/MT 7 intersection to accommodate an acceptable level of service (LOS C).
- 1.b. Improve the operation of the US 12/MT 7 intersection to accommodate all design vehicles.
- 1.c. Improve roadway elements to meet current MDT design criteria.

Need #2: Improve mobility on US 12 and MT 7 for people and freight within the study area to the extent practicable.

Objectives

- 2.a. Reduce delay due to at-grade railroad crossing closures.
- 2.b. Accommodate existing and future capacity demands within the corridor.
- 2.c. Preserve and maintain roadway surfacing and bridges on US 12 and MT 7 to accommodate future transportation demands.

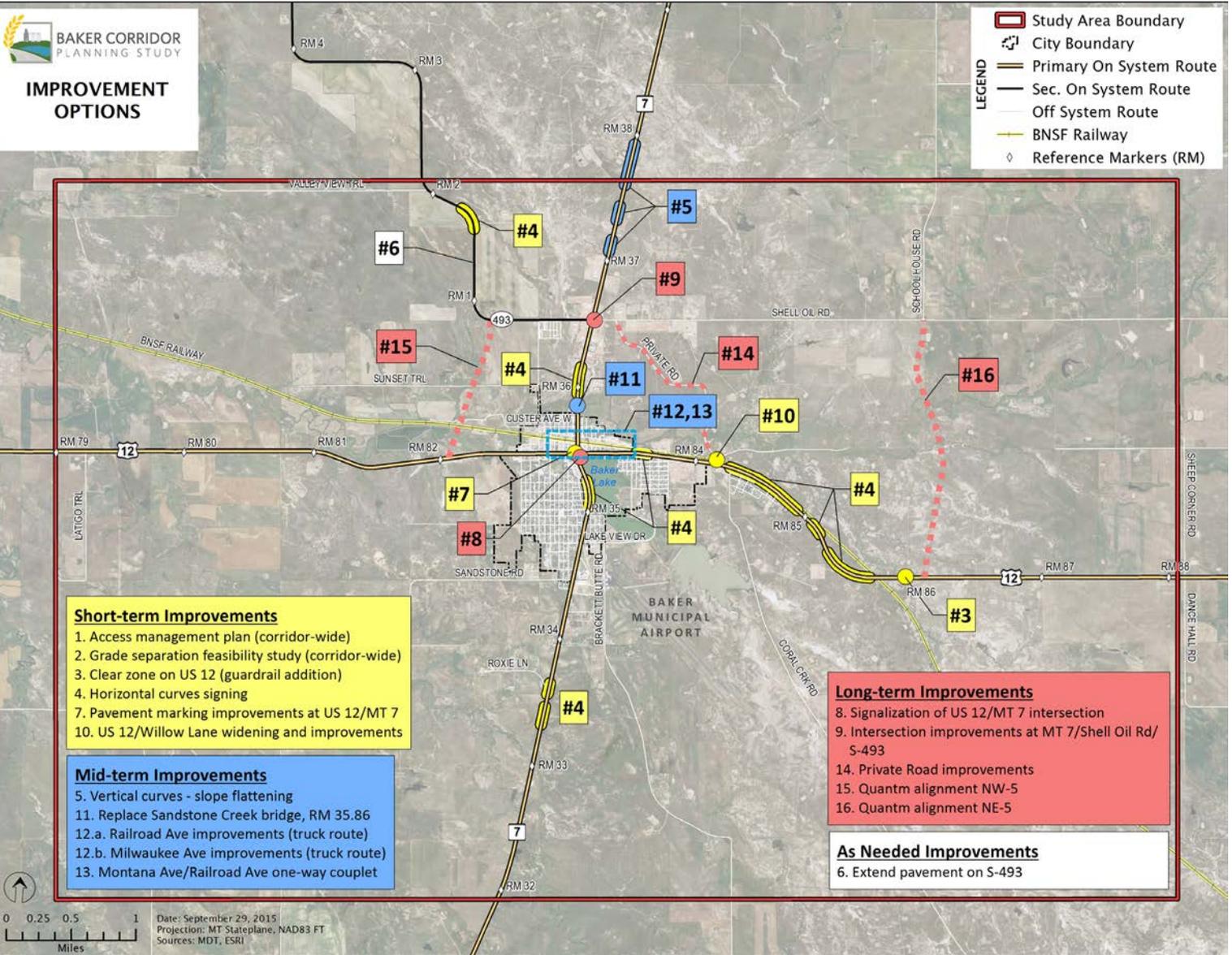
Other Considerations to the Extent Practicable

- Minimize the resource impacts of improvement options.
- Minimize impacts during construction.
- Consider construction feasibility of improvement options.
- Consistency with local plans.

Improvement Options Summary:

The table below and the map on Page 3 includes a range of improvement options that may be considered for future implementation within the study area. The improvement options have been developed based on the evaluation of the existing conditions and ability to address identified needs. Presently, no funding has been dedicated to the improvement options identified in this study.

		Improvement Option	Location(s)	Cost Estimate
Corridor Planning	1	Access Management Plan	Corridor-wide	\$100k to \$150k
	2	Grade Separation Feasibility Study	Corridor-wide	\$100k to \$125k
Geometric and Pavement	3	Clear Zone on US 12 near RM 86.2	US 12, RM 86.2	\$40k to \$42k
	4	Horizontal Curve Warning Signs	US 12, RM 83.5, 84.6, 85.3, 85.7; MT 7, RM 33.4, 33.5, 35.1, 36.0; S-493, RM 1.6	\$11k to \$12k
	5	Vertical Curves	MT 7, between RM 37.1 and 37.8	\$1.5M to \$1.7M
	6	Extend Pavement on S-493 (Pennel Rd.)	S-493, RM 1.0 and beyond	\$1.7M to \$1.8M per mile
Intersections	7	Pavement Marking at US 12/MT 7 Intersection	US 12/MT 7 Intersection	\$10k to \$11k
	8	Future Signalization of US 12/MT 7	US 12/MT 7 Intersection	\$600k to \$650k
	9	Intersection Improvements at MT 7/Shell Oil Rd./S-493	MT 7/Shell Oil Rd./S-493 Intersection	\$600k to \$625k (Signal); \$3.2M to \$3.3M (Roundabout)
	10	US 12/Willow Lane Turn Lane Storage and Railroad Crossing Improvements	US 12 RM 84.1, Willow Lane intersection	\$550k to \$600k
Bridge	11	Replace Bridge on MT 7, RM 35.8 (Sandstone Creek)	MT 7, RM 35.8 (Sandstone Creek)	\$850k to \$900k
Alternative Truck Routes	12.a	Railroad Ave. Improvements	Railroad Ave. between US 12 and MT 7	\$300k to \$325k
	12.b	Milwaukee Ave. / 3 rd St. SW Improvements	Milwaukee Ave W/3 rd St SW	\$120k to \$130k
	13	Montana Ave. (US12) and Railroad Ave. One-way Couplet	US 12 and Railroad Ave	\$1.6M to \$1.7M
	14	Private Oil Field Road Improvements	Private Road between US 12 and Shell Oil Rd.	NA
	15	Quantm Alignment NW-5	Between US 12, RM 82.1 and S-493, RM 0.8	\$17M to \$17.5M
	16	Quantm Alignment NE-5	Between US 12, RM 86.2 and Shell Oil Rd	\$16.3M to \$16.8M



Public Involvement Opportunities

An informational meeting is scheduled for 6:30 PM, Tuesday, October 20th, 2015, in the Exhibit Hall at the Fallon County Fairgrounds (3440 Montana 7, Baker, MT). The purpose of the meeting is to present the draft corridor study, discuss the recommended improvement options, and solicit feedback from the community. The draft Baker Corridor Planning Study will be available for review and comment on October 7th, 2015 and accessible from the study website at <http://www.mdt.mt.gov/pubinvolve/baker/>.

Comments may be submitted in writing at the informational meeting, online via the study website, or by mail to Corrina Collins, MDT Statewide and Urban Planning, Project Manager, PO Box 201001, Helena, MT 59620-1001. Please indicate that comments are for the Baker Corridor Planning Study.

Please note that the deadline for receiving comments is November 6th, 2015.

Next Steps

MDT will collect and consider all comments to better understand the community's view of potential issues and concerns within the study area. Following the public comment period, all comments received will be reviewed and the Baker Corridor Planning Study will be finalized. Project development and implementation of any of the improvement options depends on funding availability, right-of-way needs, and other transportation priorities within the MDT Glendive District. At this time, funding is not available to implement any of the improvement options identified by this study.

MDT attempts to provide accommodations for any known disability that may interfere with a person participating in any service, program, or activity associated with this study. Alternative accessible formats of this information will be provided upon request. For further information, call (406) 447-5000, TTY (800) 335-7592, or Montana Relay at 711. Accommodation requests must be made at least 48 hours prior to the scheduled activity and / or meeting.



PO Box 201001
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Website
www.mdt.mt.gov/pubinvolve/baker



Memorandum

Project: Baker Corridor Planning Study

Subject: **Resource Agency Meeting**

Date: Monday, March 09, 2015

Location: MDT Planning Room A, 2960 Prospect Ave, Helena

<p>Attendees: Corrina Collins – MDT Planning Larry Sickerson – MDT District Biologist Carol Strizich – MDT Planning Doug Lieb – MDT Environmental Renee Lemon – FWP, Planning and Policy Specialist Brad Schmidt – FWP, Region 7 Shane Mintz – MDT District Administrator* Jim Frank – MDT District* Steve Heidner – MDT District*</p>	<p>Mindy McCarthy – MDEQ, Water Quality Specialist Jim Darling – FWP, Fisheries Habitat Bureau Chief Robert Cole – Army Corps of Engineers* Jon Schick – HDR Chris Kelly – HDR Mick Johnson – HDR*</p>
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** attended via conference call*

The Baker Corridor Planning Study Resource Agency Meeting was held on Monday, March 9th, 2015 at the MDT Planning Division Conference Room A from 10 AM to 11:30 AM. Meeting attendees are listed above. Several attendees participated from the MDT Glendive office and MDT Miles City office via GoToMeeting webinar and teleconference. All applicable materials associated with the Resource Agency Meeting are provided as an attachment to this memorandum.

Resource Agency Coordination

An invitation letter dated January 30, 2015 was mailed to resource agency representatives. Included in the mailing was a copy of the Draft Environmental Scan report and appendices provided on a CD as well as a meeting agenda and hard copy exhibit of the Study Area Boundary.

Resource Agency Meeting

The Resource Agency Meeting included a PowerPoint presentation provided by Jon Schick, followed by a discussion. Comments and discussions were encouraged during the presentation as necessary. The topics discussed are described below. The presentation agenda included the following topics:

Presentation

- Introduction of the Project Team
- Introduction of the Corridor Planning Process
- Discussion of the public involvement process
- Study area boundary
- Study schedule
- Identified stakeholders



- Existing conditions within the study area
 - Socioeconomics
 - Transportation
 - Environmental
- Overview of Quantm alignment planning software
- Next steps and conclusion

Discussion Period

Team Introductions

- The meeting began with introductions and an description of the planning study team.

Planning Process Overview

- Carol provided an overview of the pre-NEPA/MEPA planning process:
 - MAP-21 allows a linkage of planning documentation to be used during the environmental review process to expedite project development.
 - MDT worked with FHWA to ensure the corridor study planning process adheres to their expectations so that corridor planning study information can transition into the formal environmental process.
- Much of the information regarding resource impacts from corridor planning studies feed into the environmental process.
 - The corridor planning studies can sometimes, but not commonly, include development of a project-level Purpose & Need statement.
 - Corridor planning studies do involve developing Needs and Objectives.
 - Public involvement is a key component of corridor planning studies.
- Purpose of the Resource Agency Meeting:
 - MDT wants input from resource agencies early and often.
 - The intent is to avoid situations where a project is forwarded only to later learn of agency issues/concerns during project development.
 - The early coordination serves to identify potential impacts and mitigation opportunities.

Existing Conditions

- Has Baker been impacted by the oil development in the Bakken region?
 - Traffic increases can potentially be attributed to the Bakken and other oil development.
 - That is one of the reasons for the Corridor Study: Fallon County Commissioners have observed a change in the amount and type of traffic and are anticipating a greater change. They wanted to get ahead of the curve and identify solutions before the change occurs.
- Workforce Housing
 - There is a potential for impacts related to development, demonstrated in the population projections.

- The Keystone XL Pipeline is anticipating building a crew camp within the study area.
- Keystone XL Pipeline passes through the study area in the southwest corner. Potential impacts include temporary and longer term impacts related to construction and pipeline operations and associated truck traffic.
- There has been steady oil and gas production in this area and new growth can be attributed to new technologies (e.g., CO₂ injected into the wells). The study area is well outside of the Bakken region.
- The growth rates used in the traffic projections were discussed:
 - Historic ADT volumes show a range of growth rates, ranging from negative growth to upwards of 5-6% in some locations. A 2% growth rate was determined to be a conservative growth rate assumption.
- The intersection LOS analysis shows the US12/MT7 intersection failing by 2034. Will it fail much sooner than 2034?
 - It was noted that traffic projections are very dependent on anticipated development. Without knowing when and where future growth will occur, a 2% growth rate is the best scenario for planning.
- Does the project team know BNSF's projection for future train traffic?
 - It was noted that the project team does not know future train volumes. The information can sometimes be difficult to obtain. We do know that BNSF is anticipating widespread system improvements, which would likely have an affect on future train volumes.
- Hazardous materials: What is leaking from the LUSTs?
 - Specifics on each LUST site are available through DEQ LUST database and contained in the Environmental Scan appendices.
 - LUSTs likely involve leaking petroleum and potentially an old gas station at locations downtown. Most are within city limits, centered along the highway system.
 - If a project is forwarded, more research would be required on the extent and source of contamination.

Resource Agency Comments:

- Brad Schmitz referenced Attachment 8 regarding culvert design and bridges. They encourage adequate consideration of fish passage. It was noted that Matt Rugg has already submitted a letter discussing culvert sizing and embeddedness.
- The presence of Greater Sage-grouse within the study area was discussed.
 - The map depicting observance areas is fairly accurate.
 - Brad isn't aware of active leks within the study area; however, the large observation circles on the map would suggest there is likely nesting/breeding activity in the southeast area of the study area.
 - John Enzine (FWP) confirmed the likely presence of a lek in the lower southeast quadrant of the study area. Catherine Wightman in Helena can be contacted for more information.



- The Environmental Scan seems focused on Sandstone Creek and doesn't provide the same level of information for other streams, such as Red Butte Creek.
 - It was mentioned that Sandstone Creek is on the DEQ 303(d) list and no other waterbody within the study area is impaired.
- The stock pond located on Red Butte Creek was discussed. It was noted that it does not contain water most of the year, is not stocked by FWP and is not a fishery.
- Mindy McCarthy (DEQ) was asked if she had any specific comments. She did not.
- Above Baker Lake, there is a sediment basin to collect sediment before it enters Baker Lake. The inundation area includes a large wetland complex.
- Robert Cole mentioned there have been Clean Water Act violations on Baker Lake.
 - EPA is the lead agency on the case.
 - The violation is related to unauthorized dredging along the perimeter of Baker Lake.
 - County Public Works is trying to reinitiate coordination between City of Baker and EPA.
 - It should be determined if specific mitigation is being discussed and where that may be occurring within the study area.
 - City of Baker has to work out solution with EPA to prevent sediment from entering lake.
- Brad (FWP) noted that no conservations easements exist within the study area.

Quantm Alignment

- The Quantm alignment planning software was discussed, including the model inputs and overview of the alternative analysis process.
- MDT will be initiating runs shortly after the project team confirms all agencies have reviewed the scan and there are no information gaps.
- Potential alignments will be compared to the existing alignment.

Next Steps

- The resource agencies were encouraged to submit written comments by March 16.
- HDR to follow up with City of Baker regarding EPA action and status.
- HDR to follow up with Catherine Wightman (FWP) on spatial data regarding Greater Sage-grouse.



January 30, 2015

To: Resource Agency Distribution
Subject: Resource Agency Meeting Invitation
Baker Corridor Planning Study

The Montana Department of Transportation (MDT), in partnership with the Federal Highway Administration (FHWA), and in coordination with Fallon County and the City of Baker, is developing a corridor planning study that includes the City of Baker and surrounding vicinity. The Study Area is a rectangular boundary centered on the City of Baker and includes portions of US Highway 12 and MT Highway 7. The Study Area includes the City of Baker, Baker Municipal Airport, and a portion of the BNSF Railway. Refer to the attached study area exhibit.

The goal of the planning study is to assess current and projected conditions in the study area and to develop a package of potential short- and long-term improvement options addressing the needs identified through the study process. Alternative routes around Baker will be considered as part of the study. The study will identify resources potentially present in the Study Area, analyze potential impacts of the proposed improvements, identify constraint areas, and gather input and inform citizens through a public process. The study may form the basis of future National and Montana Environmental Policy Act (NEPA/MEPA) process(es) if improvement options identified through the study are forwarded.

MDT invites you to attend a resource agency meeting to discuss environmental conditions in the Study Area, and identify issues, concerns or potential impacts of improvement options that may be forwarded from the study. Agency representatives are invited to attend in person at the MDT Helena office, Glendive District office, or Miles City office.

When: Monday, March 9, 2015 from 10 AM to 12 PM

Where:

MDT Planning Division		MDT Glendive District		MDT Miles City Office
Conference Room A		Conference Room		Conference Room
2960 Prospect Avenue	or	503 N. River Avenue	or	217 North 4 th Street
Helena, MT 59601		Glendive, MT 59330		Miles City, MT 59301

Please review the draft environmental scan report in advance of the meeting. An electronic version of this document is provided on the enclosed CD, along with a print copy of the meeting agenda. If you are unable to attend the resource agency meeting, please forward these documents to an appropriate agency designee.

Written comments should be directed to MDT Project Manager, Corrina Collins by March 6, 2015 at the address indicated on letterhead. Additional information is available on the study website (<http://www.mdt.mt.gov/pubinvolve/baker/>).

Please call or email Jon Schick, Consultant Project Manager, by Wednesday, March 4, 2015 to confirm your participation in the resource agency meeting.

Jon Schick
HDR Engineering
1715 South Reserve Street, Ste. C
Missoula, MT 59801
406.532.2231
jon.schick@hdrinc.com

Thank you in advance for your agency's participation.

Sincerely,



Tom S. Martin, P.E.
Environmental Services Bureau Chief

Enclosures: CD containing electronic version of Draft Environmental Scan
Study Area Boundary Exhibit
Resource Agency Meeting Agenda

Copies (without enclosures):
File

E-copies (without enclosures):
Shane Mintz – MDT Glendive District Administrator
Jim Frank, P.E. – MDT Engineering Services Engineer
Tom Martin, P.E. – MDT Environmental Services Bureau Chief
Heidy Bruner, P.E. – MDT Environmental Services Engineering Section Supervisor
Bill Semmens – MDT Resources Section Supervisor
Joe Radonich – MDT Hazardous Waste Section Supervisor
Douglas Lieb, E.I. – MDT Statewide Project Development Engineer
Corrina Collins – MDT Project Manager
Jon Schick – MDT Project Manager

Resource Agency Distribution:

Julie DalSoglio – Director, U.S. Environmental Protection Agency, Region 8
Mike McGrath – Fish and Wildlife Biologist, Transportation
Todd Tillinger – United States Army Corps of Engineers
Diane Friez - US Bureau of Land Management, District Manager
Todd Yeager – US Bureau of Land Management, Field Manager
Jon Kenning – US Department of Environmental Quality, Water Protection Bureau
Paul Skubinna – US Department of Environmental Quality, Water Protection Bureau
Robert Ray – US Department of Environmental Quality, Water Quality Planning Bureau
Beau Downing – Montana Fish, Wildlife & Parks, SPA Coordinator
Jim Darling – Montana Fish, Wildlife & Parks, Habitat Bureau Chief
Brad Schmitz – Montana Fish, Wildlife & Parks, Regional Supervisor
Matt Rugg – Montana Fish, Wildlife & Parks, Fisheries Biologist
Melissa Foster – Montana Fish, Wildlife & Parks, Wildlife Biologist
Jackie Tooke – Montana Fish, Wildlife & Parks, Upland Game Bird Specialist
Mark Baumler – Montana State Historic Preservation Office
Faron Henderson – Fallon County Planning Department, Planner/Floodplain Coordinator and
City of Baker Planner

Agenda

Project: Baker Corridor Planning Study

Subject: Resource Agency Meeting

Date/Time: Monday, March 09, 2015, 10 AM to 12 PM

Location: MDTCNF Planning Room A, 2960 Prospect Ave, Helena
MDT Glendive District Conference Room, 503 N. River Avenue, Glendive
MDT Miles City Office Conference Room, 217 N. 4th Street, Miles City

The following meeting agenda and Study Area exhibit are intended to accompany the *Baker Corridor Planning Study* Resource Agency Meeting invitation letter and environmental scan report (enclosed CD) previously provided.

Meeting Agenda

1. Introductions
2. Provide an Overview of the Corridor Planning Study Process
3. Present Existing Conditions Information
4. Present Key Findings from the Environmental Scan Report
5. Solicit Input
6. Conclusion and Next Steps

For questions, please contact:

Jon Schick

HDR Project Manager

(406) 532-2231

jon.schick@hdrinc.com

Resource Agency Meeting

Monday, March 9th, 2015

NAME:	TITLE:	AGENCY:	EMAIL:
Jim Darling	FISHERIES HABITAT BUR. CHIEF	MT FISH, WILDLIFE + PARKS	jdarling@mt.gov
Doug Lieb	Statewide Proj Development Eng.	MDT	dlieb@mt.gov
Renee Lemon	Planning and Policy Specialist	FWP	rlemon@mt.gov
Carol Strizich	Statewide & Urban Planning Supervisor	MDT-Planning	cstrizich@mt.gov
Larry Sickerson	MDT-District Biologist	MDT	lsickerson@mt.gov
Mindy McCarthy	Water Quality Specialist	DEQ	mmccarthy3@mt.gov
Robert Cole	Army Corps of Engineers		
Steve Heidner	MDT Glendive		
Jim Frank	MDT Glendive		
Shane Mintz	MDT Glendive Glendive		
Brad Schmitz	Miles City/Baker FWP		
Mich Johnson	HDR		
Jon Schick	HDR		
Chris Kelley	HDR		
Corinne Collins	MDT		



BAKER CORRIDOR PLANNING STUDY

RESOURCE AGENCY MEETING

March 9, 2015
10:00 AM – 12:00 PM

WELCOME AND INTRODUCTIONS

Meeting Introductions

Project Team includes:

- Partners
 - MDT
 - FHWA
 - Fallon County
 - City of Baker
- Consultant Team



MEETING AGENDA

Presentation

- Introduction of the Corridor Planning Process
- Discuss public involvement process
- Study area boundary
- Study schedule
- Identified stakeholders
- Existing conditions within the study area
 - Socio-economics
 - Transportation
 - Environmental
- Overview of Quantm alignment planning software
- Next steps and conclusion

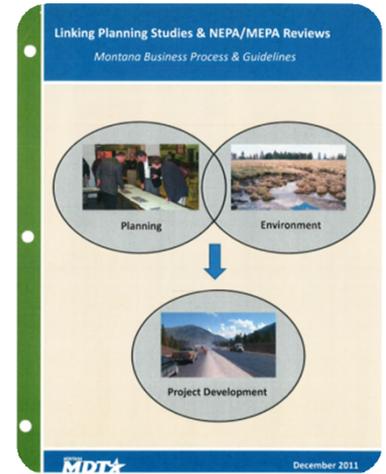
Discussion Period



WHAT IS A CORRIDOR PLANNING STUDY?

■ Corridor Planning Studies:

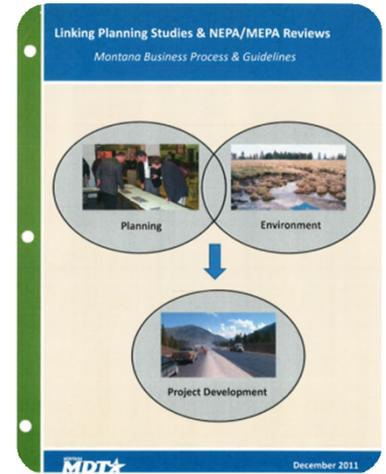
- Develop a high level analysis of study area conditions
- Define transportation issues and areas of concern
- Provide for early identification of potential social, economic, and environmental impacts
- Identify a range of transportation improvement strategies
- Facilitate continued public, resource agency, and stakeholder participation



MDT Corridor Study Guidance Document

WHAT A CORRIDOR STUDY IS NOT

- Corridor Planning Studies are **not**:
 - A preliminary or final design project
 - A construction project or right-of-way acquisition
 - An environmental compliance document

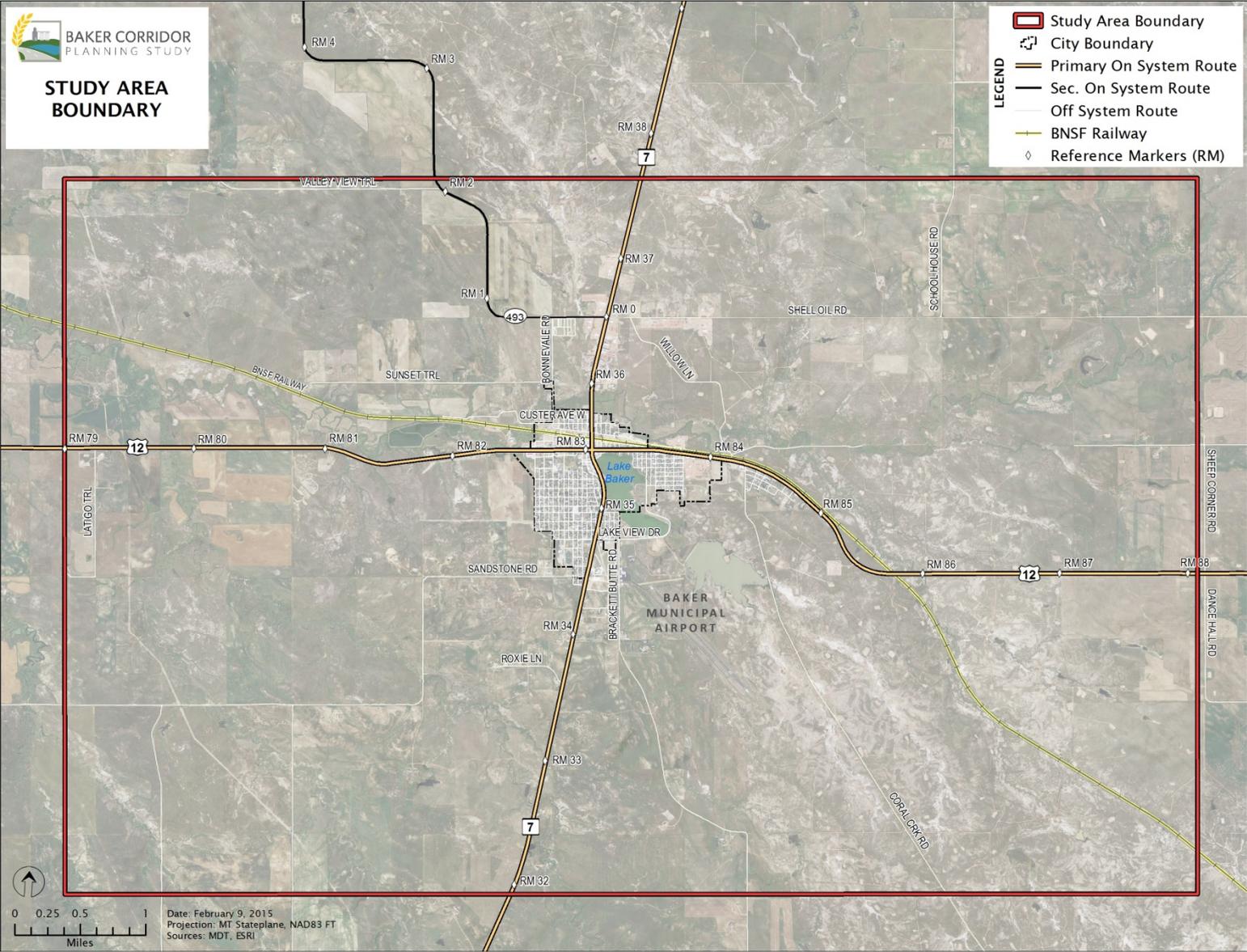


MDT Corridor Study Guidance Document

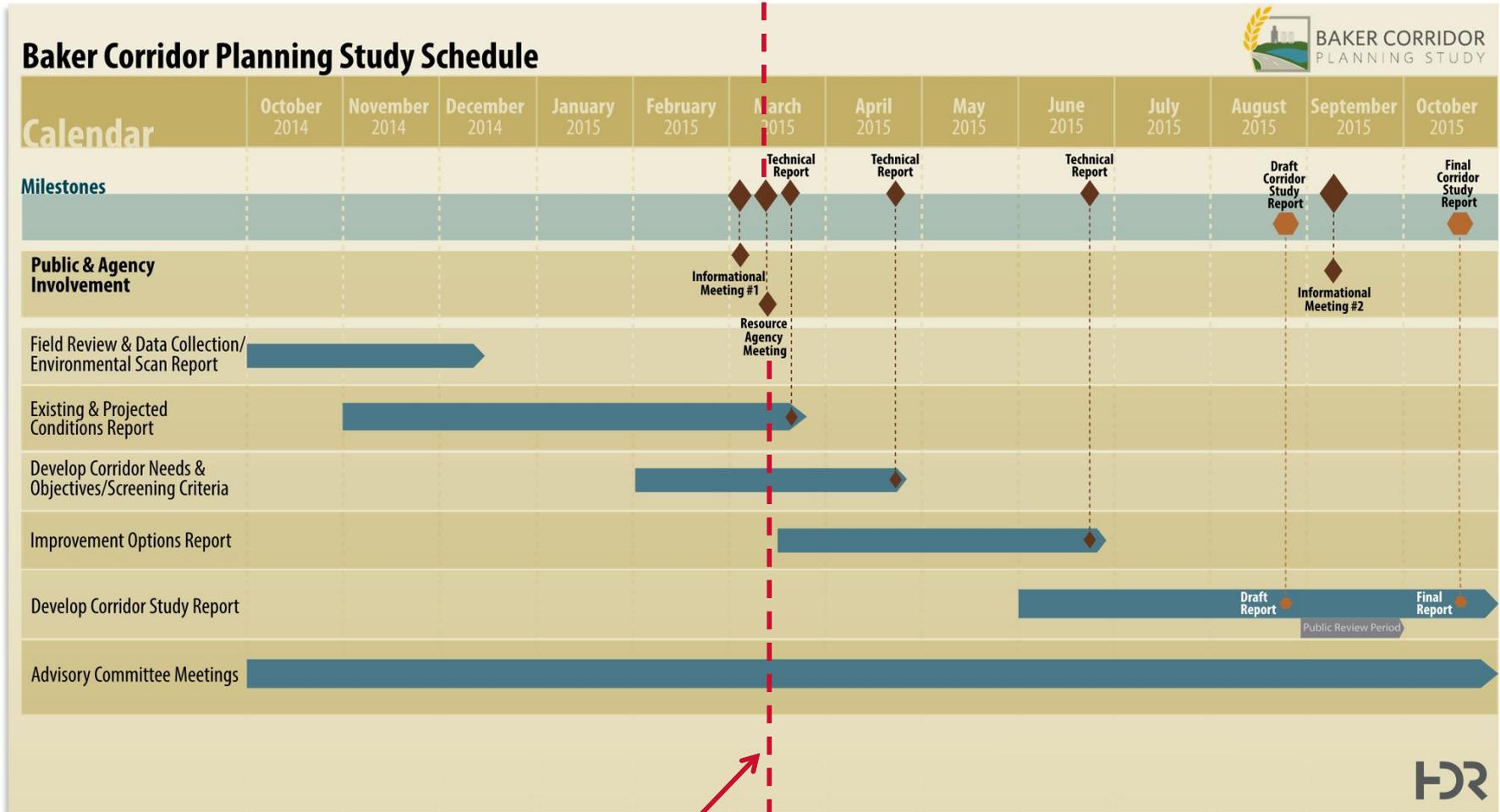
GOALS AND PURPOSE OF STUDY

- The *Baker Corridor Planning Study* will:
 - Identify study area needs and objectives
 - Identify and consider possible impacts and constraints
 - Develop potential improvement option(s)
 - Present recommended improvement option(s) and potential funding sources

STUDY AREA BOUNDARY



STUDY SCHEDULE

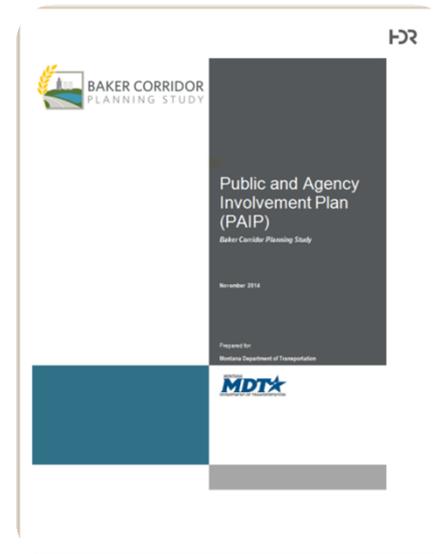


Current Planning Study Progress



PUBLIC INVOLVEMENT PROCESS

- The *Baker Corridor Planning Study* includes the following public involvement activities:
 - Two informational meetings in Baker
 - Coordination with stakeholders, resource agencies, and other interested parties, as needed
 - Study website
 - Study newsletters
 - Stakeholder meetings (as required)



Find the Public and Agency Involvement Plan on the study website.



PROJECT STAKEHOLDERS

- City of Baker Chamber of Commerce and Agriculture
- Baker Municipal Airport
- Southeast Montana Area Revitalization Team (SMART) – Fallon County Economic Development
- BNSF Railway
- Equity Coop Elevator
- Denbury Resources
- Trucking Operations (Freight and Oil/Gas Services)
 - Continental Resources
 - Mitchell’s Oilfield Services
 - D&M Water Services
 - Power Fuels
 - Woody’s Trucking LLC
 - Griffith Excavation Inc.
- Brosz Engineering
- Others as requested



STUDY AREA EXISTING CONDITIONS

Population & Demographics

- Population estimates (2013):
 - Fallon County: 3,085
 - City of Baker: 1,812
 - 60% of Fallon County resides in City of Baker
 - City of Baker population grew by 3% over past decade

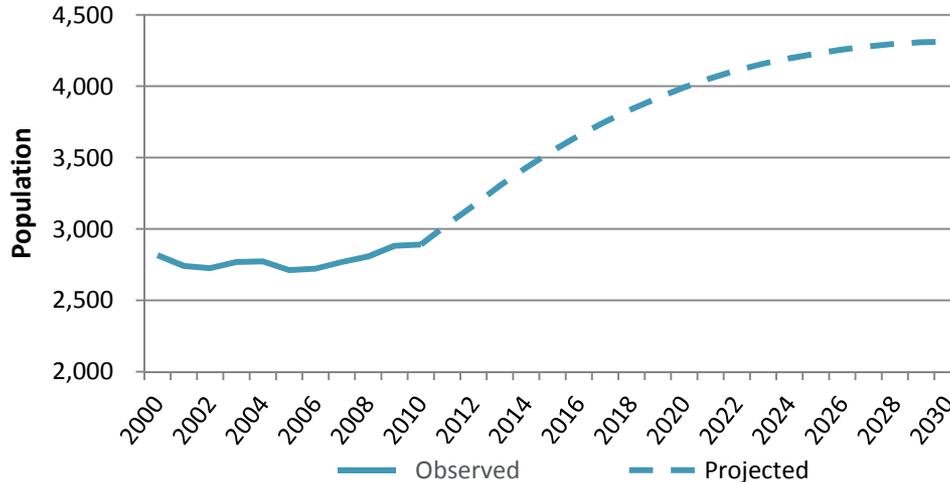
- County demographics:
 - 97.8% of County residents predominantly self-identified as White
 - 2.1% of County residents are American Indian
 - <1% other races



STUDY AREA EXISTING CONDITIONS

Demographics & Population

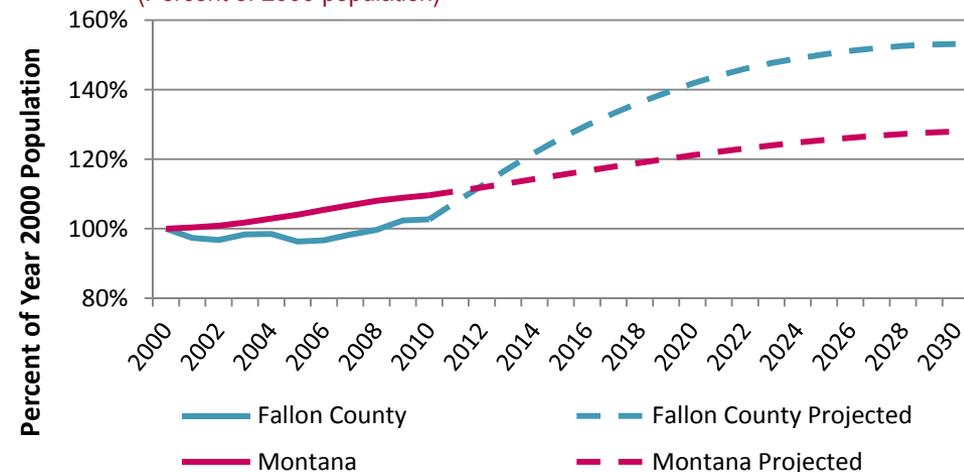
Fallon County Observed and Projected Population



- MT Dept. of Commerce estimated population growth:
 - Fallon County population to grow by approx. 1,500 by 2030

- Fallon County is projected to have much higher population growth rate than the state as a whole

Montana and Fallon County Total Observed and Projected Population (Percent of 2000 population)



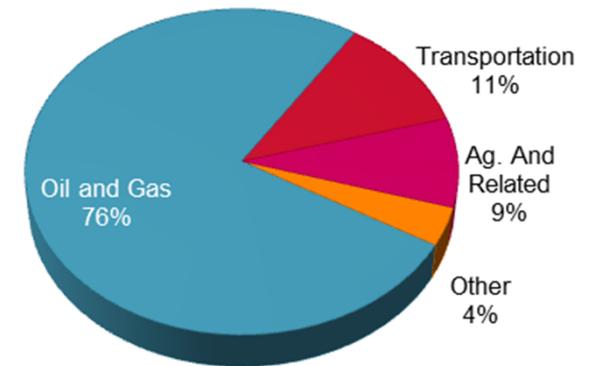
STUDY AREA EXISTING CONDITIONS

Employment & Economy

- Fallon County Employment by Industry (2009-2013)
 1. Agriculture, forestry, fishing, hunting, and mining: 27.5%
 2. Educational services, and health care and social assistance: 18.7%
 3. Construction: 10%
 4. Entertainment, accommodations, and food services: 8.0%

- Economic Base of Fallon County, Montana (2012)

1. Oil and Gas: 76%
2. Transportation: 11%
3. Agriculture and Related: 9%
4. Other 4%

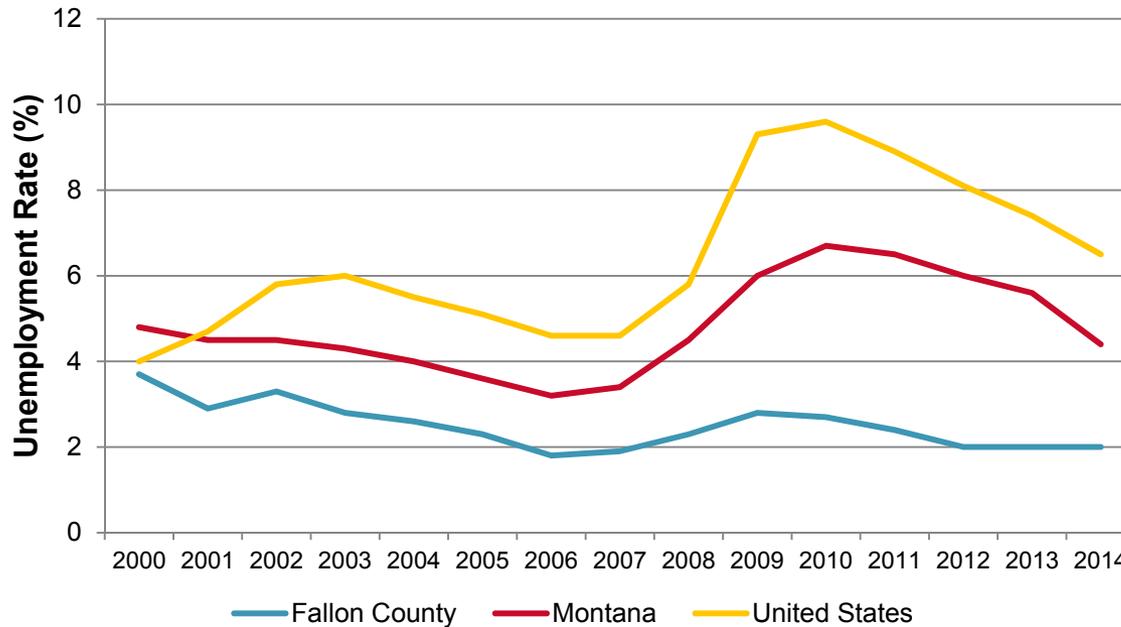


Source: UM Bureau of Business and Economic Research

STUDY AREA EXISTING CONDITIONS

Economy & Employment

Unemployment Rate Comparison



- Unemployment rates in Fallon County have remained low
- November 2014 unemployment rates:
 - Fallon County = 1.4%
 - State of Montana = 4.2%
 - United States = 5.5%

STUDY AREA EXISTING CONDITIONS

Highways

■ US Highway 12

- Functionally classified as Rural Minor Arterial
- Runs east-west
- Major linkage to I-94 to west and North Dakota to east
- Speed limits range from 25 mph (city) to 70 mph (rural)
- Two-lane highway
- 155 access points within Study Area

■ MT Highway 7

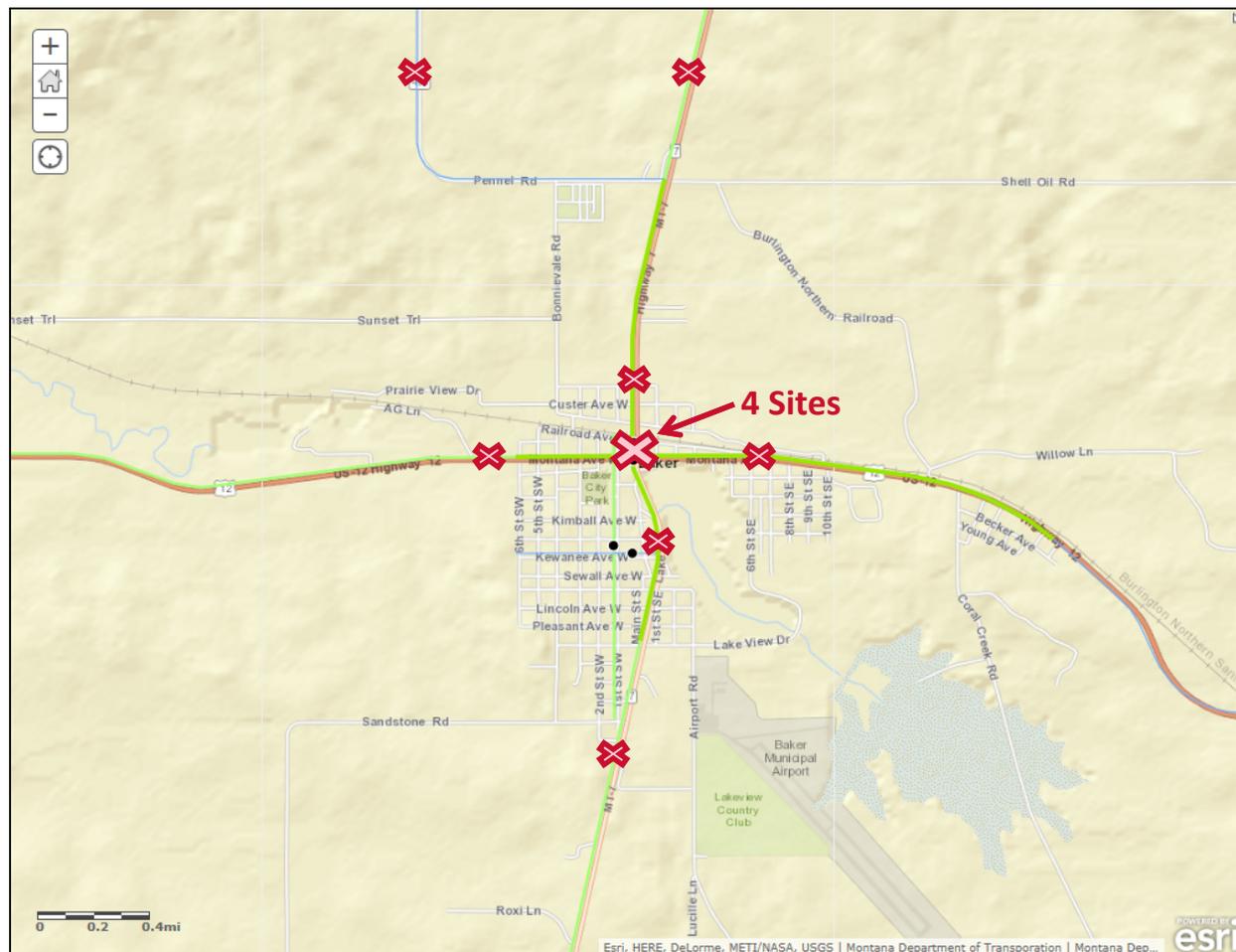
- Functionally classified as Rural Minor Arterial
- Runs north-south
- Major linkage to I-94 to north at Wibaux
- Speed limits range from 25 mph (city) to 70 mph (rural)
- Two-lane highway
- 94 access points within Study Area



STUDY AREA EXISTING CONDITIONS

Traffic Data

- 11 traffic count sites in Study Area
- Downtown intersection includes 4 sites: one on each leg of intersection



STUDY AREA EXISTING CONDITIONS

Traffic Data

Historic Annual Average Daily Traffic

Site ID	Route	Reference Marker	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
13-1-4*	US 12	76.13	750	750	980	990	930	1210	1220	790	990	1230
13-1-15	US 12	82.09	1210	1210	1150	1250	1180	1490	1500	1100	1470	1560
13-1-16	US 12	82.60	4000	4000	4330	4460	3600	3730	4530	4590	3750	3790
13-1-17	US 12	82.65	3610	3690	4310	4440	3470	3590	3690	3740	3520	3320
13-1-18	US 12	83.07	3170	3170	2780	2820	2650	2600	2610	2700	2280	2350
13-1-5*	US 12	88.12	880	880	810	1120	1050	880	870	880	990	810
13-2-2*	MT 7	29.34	660	660	810	870	820	390	390	710	750	1030
13-1-19	MT 7	34.32	1050	1460	1030	1130	1060	1120	1120	980	1350	1310
13-1-20	MT 7	35.14	2020	2680	2320	2390	2000	2070	2080	2320	2370	2460
13-1-21	MT 7	35.45	3930	4600	3910	4020	3070	3180	3190	3200	3720	3730
13-1-22	MT 7	35.52	4080	4080	3660	3770	3540	3660	3730	3780	3490	3580
13-1-23	MT 7	35.76	2500	2500	2760	2860	2690	2910	2920	2610	2690	2990
13-1-7	MT 7	36.95	1140	1140	1380	1320	1240	1120	1120	930	1090	1320
13-1-12	S-493	1.26	220	330	290	400	380	370	310	310	260	270

Highway traffic volumes highest within the City Limits

Source: MDT 2014

* Site located outside the Study Area Boundary.

- US Highway 12 traffic within the Study Area ranges from 1,560 vehicles per day (vpd) to 3,790 vpd (2013 counts)
- MT Highway 7 traffic has a similar range within the Study Area: 1,310 – 3,730 vpd
- Traffic volumes are highest within the City of Baker

STUDY AREA EXISTING CONDITIONS

Traffic Data – Heavy Vehicles

Average Daily Traffic

Corridor	Reference Marker	ADT	AADT	HV
US 12	80	1467	1280	14%
US 12	87	1296	1130	20%
MT 7	31	834	730	21%
MT 7	37	1439	1260	29%

Source: MDT 2014

- The Study Area has a high percentage of heavy vehicle (HVs)
- Larger volumes of HVs make turns from southbound MT 7 to eastbound US 12 and westbound US 12 to northbound MT 7 throughout the day in addition to the peak period.



STUDY AREA EXISTING CONDITIONS

Traffic Projections

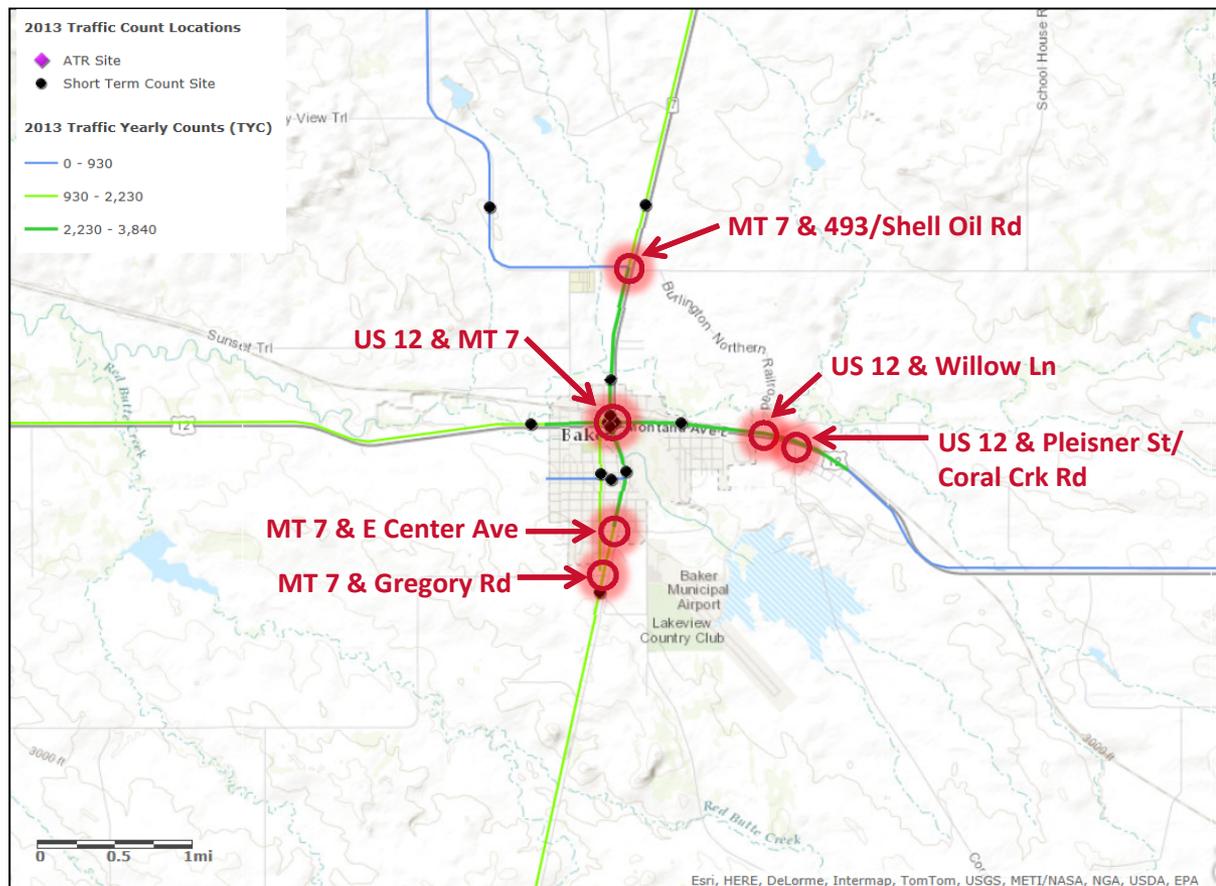
Projected ADT Traffic Volumes (2034)

Site ID	Route	Reference Marker	2013	Low Growth (2%)	Medium Growth (5%)	High Growth (5% vehicles/10% HV)
13-1-4*	US 12	76.13	1230	1900	3400	4000
13-1-15	US 12	82.09	1560	2400	4300	4900
13-1-16	US 12	82.60	3790	5700	10600	11100
13-1-17	US 12	82.65	3320	5000	9200	10000
13-1-18	US 12	83.07	2350	3600	6500	7300
13-1-5*	US 12	88.12	810	1200	2300	3000
13-2-2*	MT 7	29.34	1030	1600	2900	3400
13-1-19	MT 7	34.32	1310	2000	3600	4200
13-1-20	MT 7	35.14	2460	3700	6900	7400
13-1-21	MT 7	35.45	3730	5700	10400	11000
13-1-22	MT 7	35.52	3580	5400	10000	10800
13-1-23	MT 7	35.76	2990	4500	8300	9100
13-1-7	MT 7	36.95	1320	2000	3700	4500
13-1-12	S-493	1.26	270	400	800	1100

- Three growth scenarios were developed to demonstrate resulting growth in traffic
 - Low Growth: 2% growth rate for all vehicles (passenger vehicles and heavy trucks)
 - Medium Growth: 5% growth rate for all vehicles
 - High Growth: 5% growth rate for regular vehicles, 10% growth rate for heavy vehicles

STUDY AREA EXISTING CONDITIONS

Traffic Data – Intersection Analysis



Turning movement counts gathered at six (6) main intersections.

- US 12 & Pleisner St
- US 12 & Willow Ln
- MT 7 & Shell Oil Rd
- MT 7 & US 12
- MT 7 & E Center Ave
- MT 7 & Gregory Rd

STUDY AREA EXISTING CONDITIONS

Traffic Data – Intersection Level of Service (LOS)

Existing and Projected Level of Service during Peak Hour

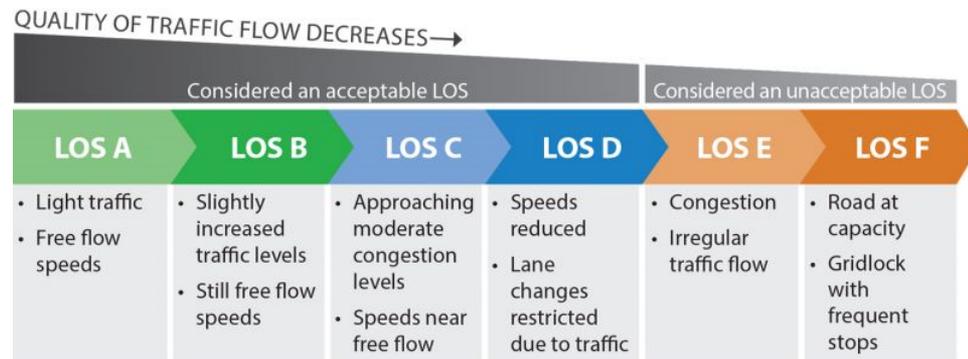
Intersection	Peak Hour	2014 Current LOS (Delay ¹)	2034 Projected LOS ² (Delay)
US 12 & MT 7	5:45 – 6:45 PM	B (14.4)	F (71.3)
US 12 & Willow Lane	5:15 – 6:15 PM	A (9.6)	B (10.1)
US 12 & Pleisner Street	2:45 – 3:45 PM	A (9.7)	B (10.4)
MT 7 & Shell Oil Road/S-493	7:30 – 8:30 AM	C (15.2)	D (28.2)
MT 7 & Center Ave	5:00 – 6:00 PM	A (9.7)	B (10.3)
MT 7 & Gregory Ave	6:00 – 7:00 PM	A (8.8)	A (9.1)

Note: The worst-performing leg LOS is shown for each intersection.

¹ Delay is shown in seconds.

² Projections use a 2% growth rate

Level of Service (LOS) is a term used to qualitatively describe roadway and intersection traffic operations using “letter grades” ranging from A (best) to F (worst).



STUDY AREA EXISTING CONDITIONS

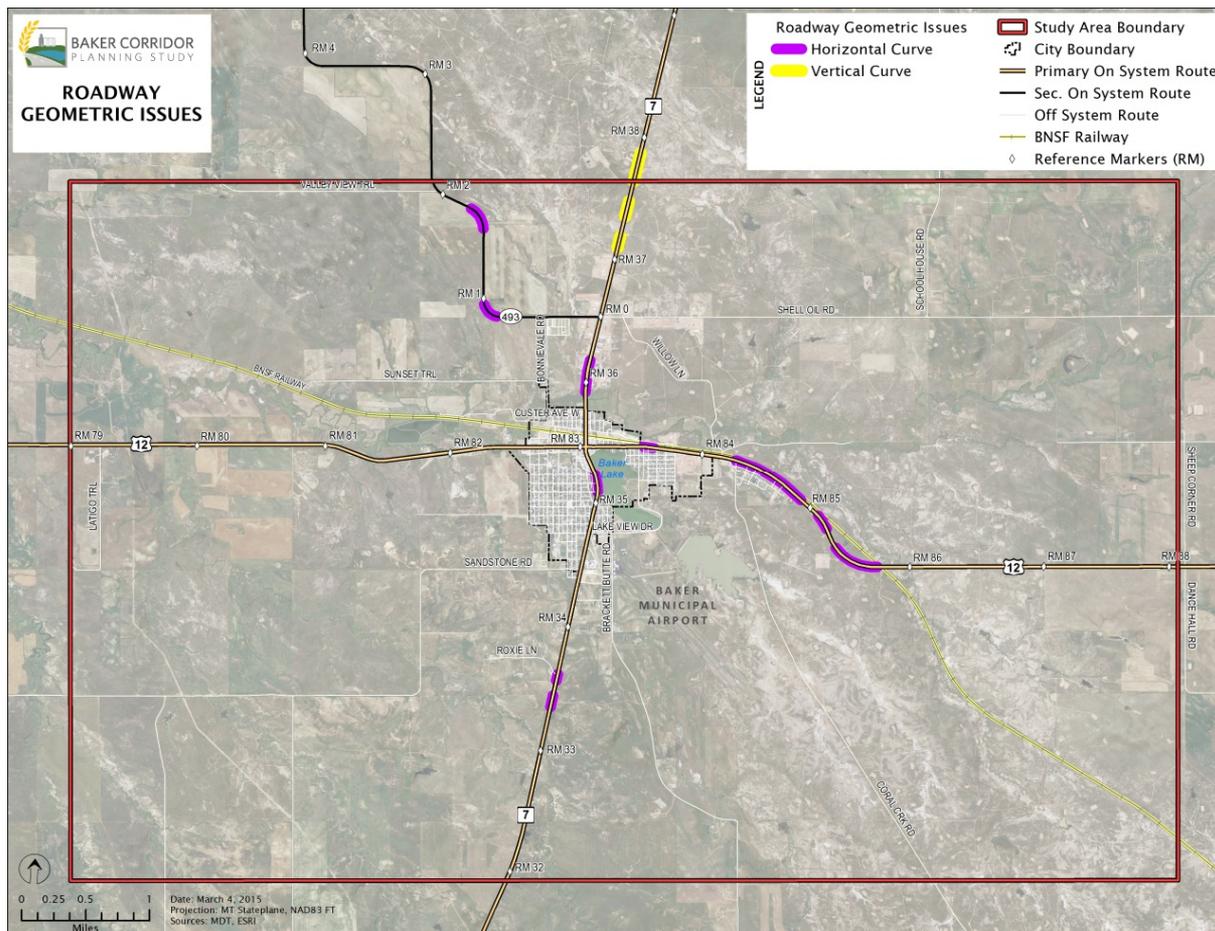
Roadway Geometrics

Horizontal Curves

- 10 curves do not meet current MDT design standards
 - Radius
 - Stopping Sight Distance

Vertical Curves

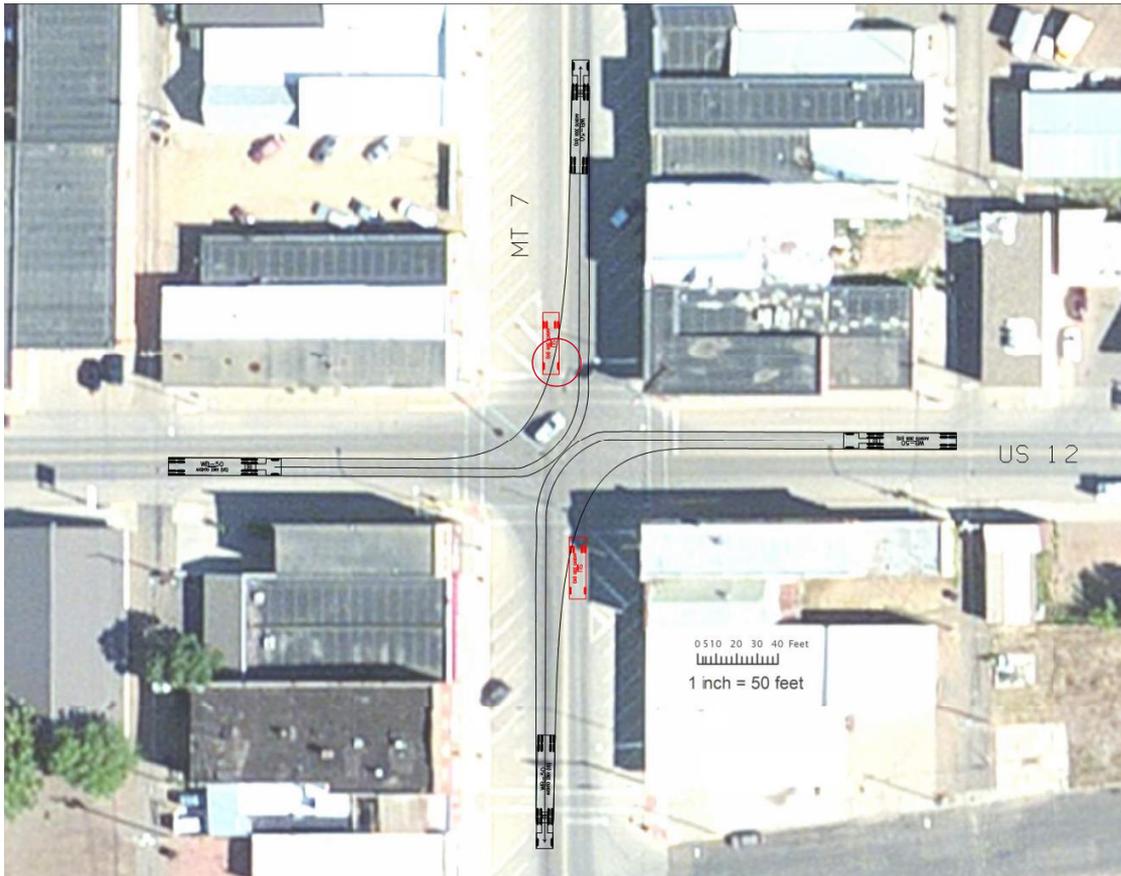
- 3 curves do not meet current MDT standards
 - Curvature
 - Grade
 - Stopping Sight Distance



STUDY AREA EXISTING CONDITIONS

Intersection Turning Movements

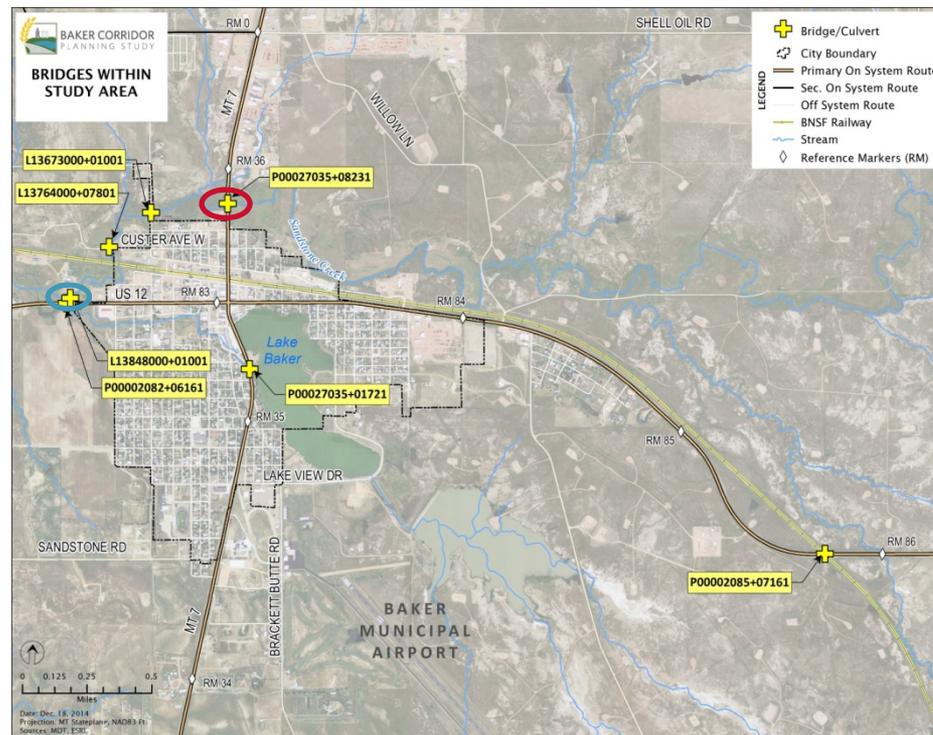
- The intersection of US 12 and MT 7 cannot accommodate proper turning movements of medium sized and standard sized semi-trailers
- A WB-50 design vehicle (truck with 50' wheelbase) cannot make turning movements from US 12 onto MT 7 without conflict
- Note that a larger WB-67 vehicle is the standard-sized semi-truck



STUDY AREA EXISTING CONDITIONS

Bridges

- Built in 1941, the bridge located just north of Baker on MT 7 at RM 35.86 spanning Sandstone Creek (P00027035+08231) has been categorized as **Functionally Obsolete**.
- Built in 2003, the bridge just north of US 12 on Ag Lane (L13848000+01001) has been categorized as Structurally Deficient. This bridge was recently replaced.



Bridge ID	Last Inspection Year	Sufficiency Rating	Structure Status (NBI Rating)
P00002082+06161	2014	83	Not Deficient
P00002085+07161	2014	77.1	Not Deficient
P00027035+01721	2014	93.3	Not Deficient
P00027035+08231	2014	69.6	Functionally Obsolete
L13673000+01001	2013	73.2	Not Deficient
L13764000+07801	2013	99.2	Not Deficient
L13848000+01001	2013	47.9	Structurally Deficient

Source: MDT Bridge Management System, 2014

STUDY AREA EXISTING CONDITIONS

Other Transportation Modes – BNSF Railway

Railroad Crossings within the Study Area

Location	AADT	Warning Device / Crossing Type	Trains Per Day	# of Tracks	Train Switching	Speed Over Crossing
Baker, E 1.6 mi on US 12 (overpass)	990	RR Underpass, grade separated	5	0	0	40
Baker, E 0.2 mi (Willow Lane)	110	Cross bucks, at-grade	5	2	0	40
Berwald Rd	102	Cross bucks, at-grade	5	2	0	40
Main Street (MT 7)	4509	Gates, at-grade	5	3	0	40
N 3 rd Street W	402	Gates, at-grade	5	3	0	40

Source: MDT, 2014

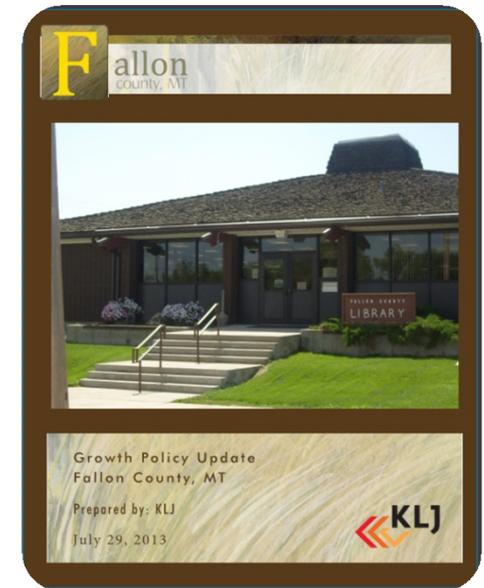


- Four BNSF Railway-operated at-grade crossings are located within the Study Area
- There is an approximate 2-mile stretch of double track (main, siding) in Baker
- The crossing located on Willow Lane has steep roadway grades, which can be problematic for low clearance trucks.

STUDY AREA EXISTING CONDITIONS

Fallon County Growth Policy

- Updated in 2012
- Includes goals, objectives, and policies to facilitate decision-making related to future growth in the area
- Includes specific goals and objectives related to transportation:
 - Reduce truck traffic levels in the City of Baker
 - Maintain safe streets and roads
 - Minimize disruption of traffic circulation caused by barriers such as the railroad
 - Plan for street and road extensions and preserve adequate right-of-way for such extensions
 - Protect Baker Municipal Airport's air space

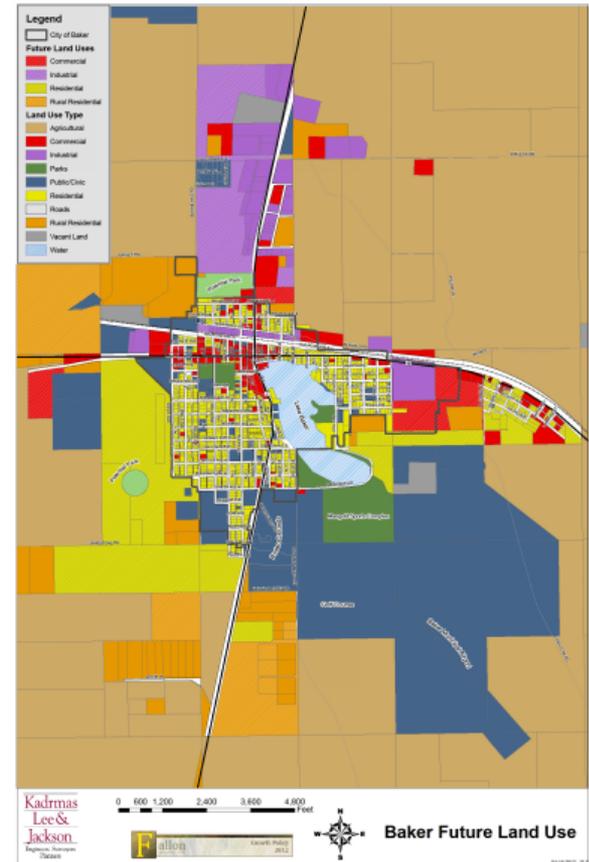


2012 Fallon County Growth Policy

STUDY AREA EXISTING CONDITIONS

Land Use and Zoning

- Future Land Use Plan
 - Guides growth within the County and Baker
 - Encourages growth in areas with existing or easily expandable infrastructure
 - City of Baker growth directed towards north and west of city
- Zoning ordinance
 - Establishes zoning districts within city limits
 - Development standards

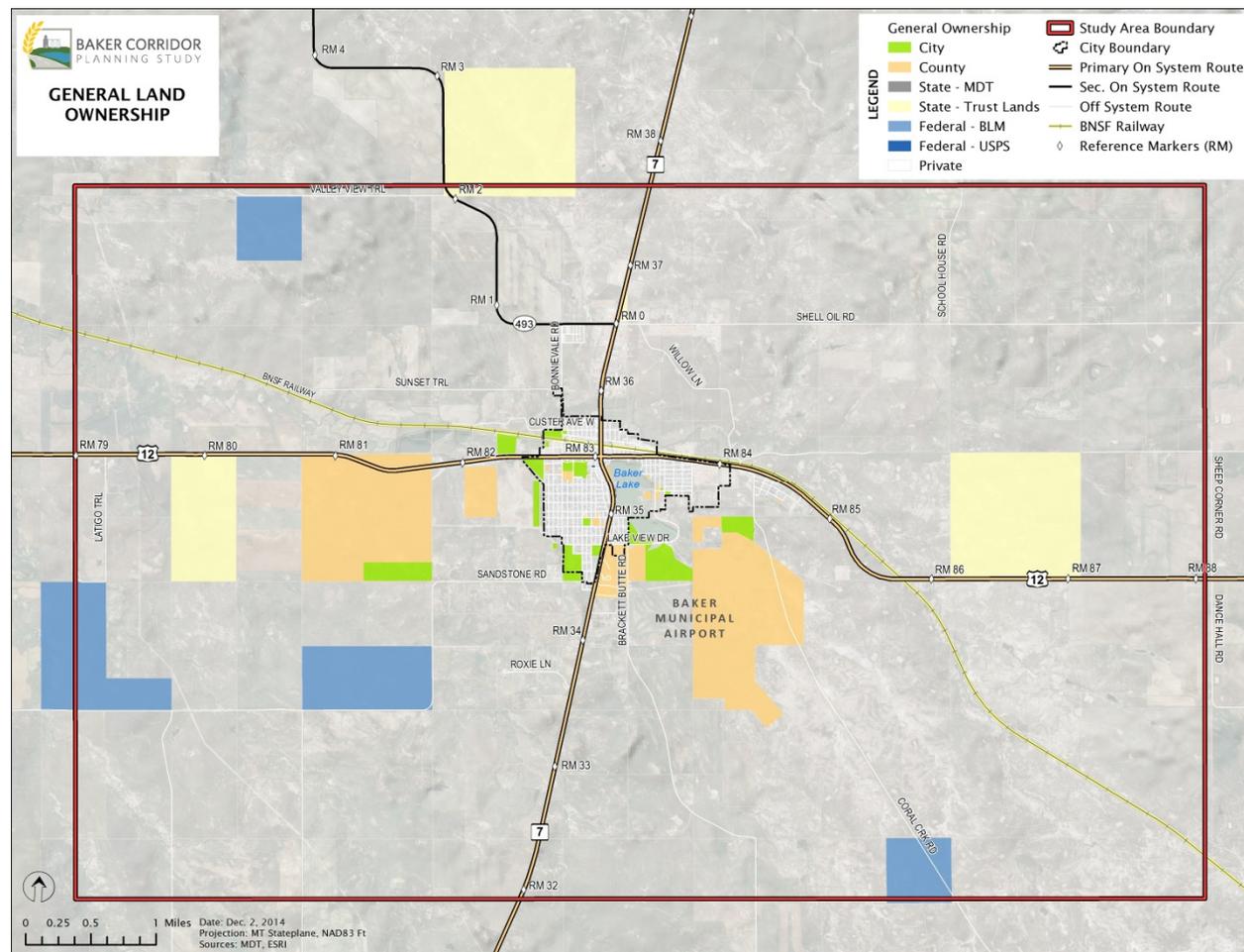


Baker Future Land Use Plan

STUDY AREA EXISTING CONDITIONS

Land Ownership

- Study Area land ownership predominantly privately owned
- State of Montana
- Fallon County
- BLM



STUDY AREA EXISTING CONDITIONS

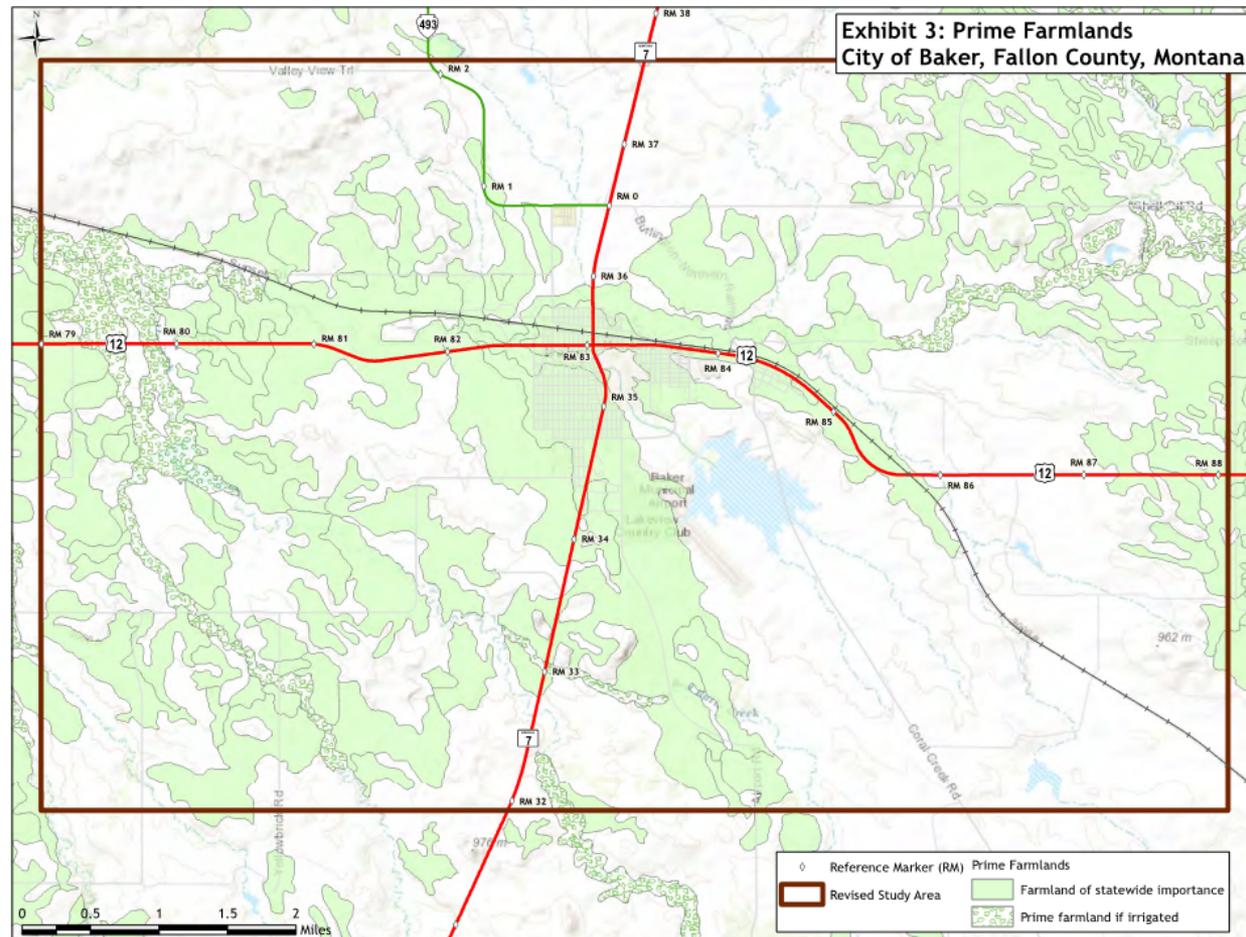
Environmental Resources

- Physical Environment
 - **Soil Resources and Prime Farmland**
 - Geologic Resources
 - **Surface Waters**
 - **Groundwater**
 - **Wetlands**
 - **Floodplains**
 - Irrigation
 - Air Quality
 - **Hazardous Materials**
 - Noise
 - Visual Resources
- Biological Resources
 - Vegetation
 - **Wildlife**
 - **Threatened and Endangered Species**
 - **Montana Species of Concern**
- Recreational, Historical and Cultural Resources
 - **Parks and Recreational Sites**
 - **Cultural/Historic Sites**

STUDY AREA EXISTING CONDITIONS

Soil and Farmland

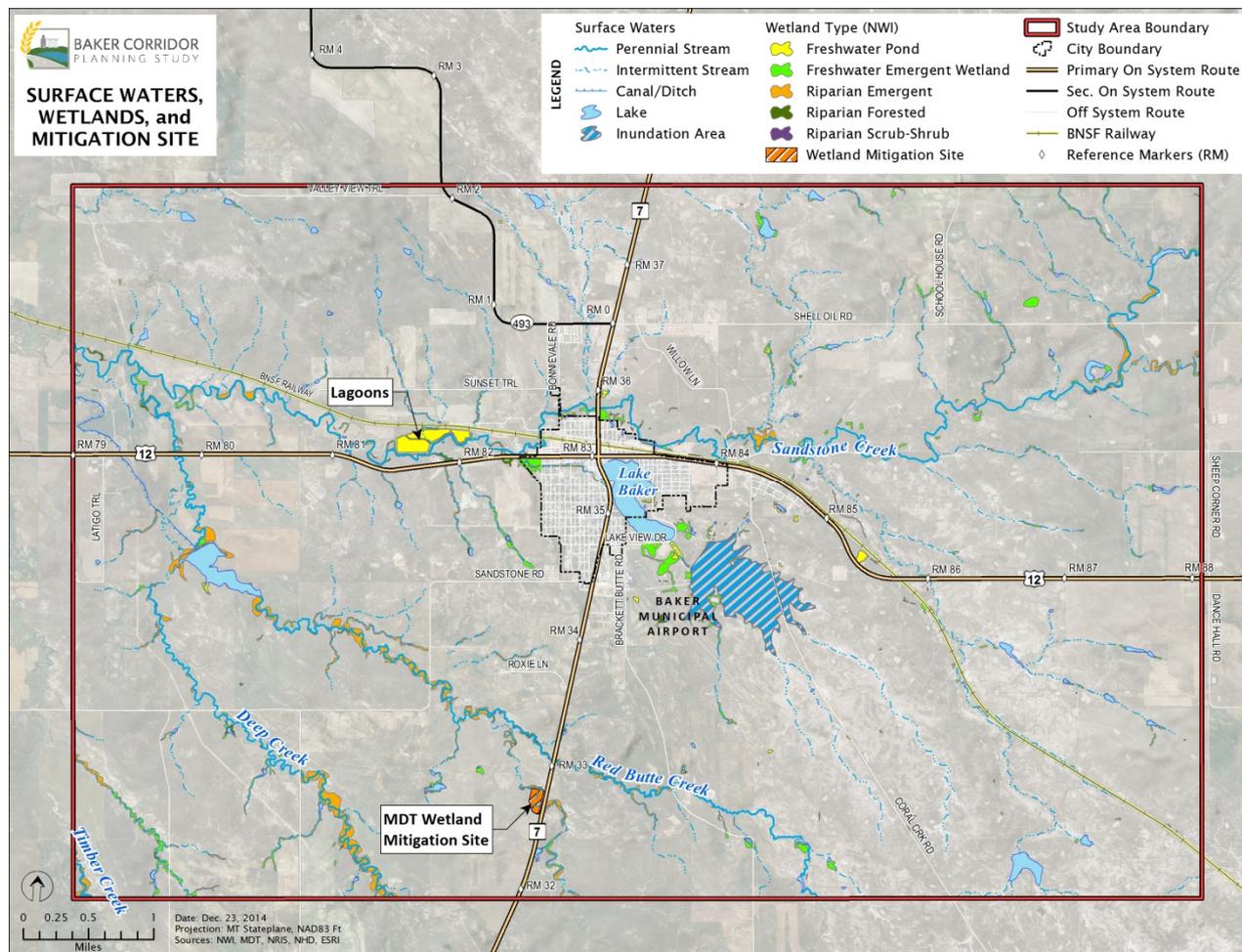
- The Farmland Protection Policy Act (FPPA) protects farmland and minimizes conversion to non-agricultural uses
- Study Area contains farmland of state or local importance and prime farmland
- Any forwarded improvement options affecting farmland will require a CPA-106 Farmland Conversion Impact Rating Form for Linear Projects



STUDY AREA EXISTING CONDITIONS

Surface Waters

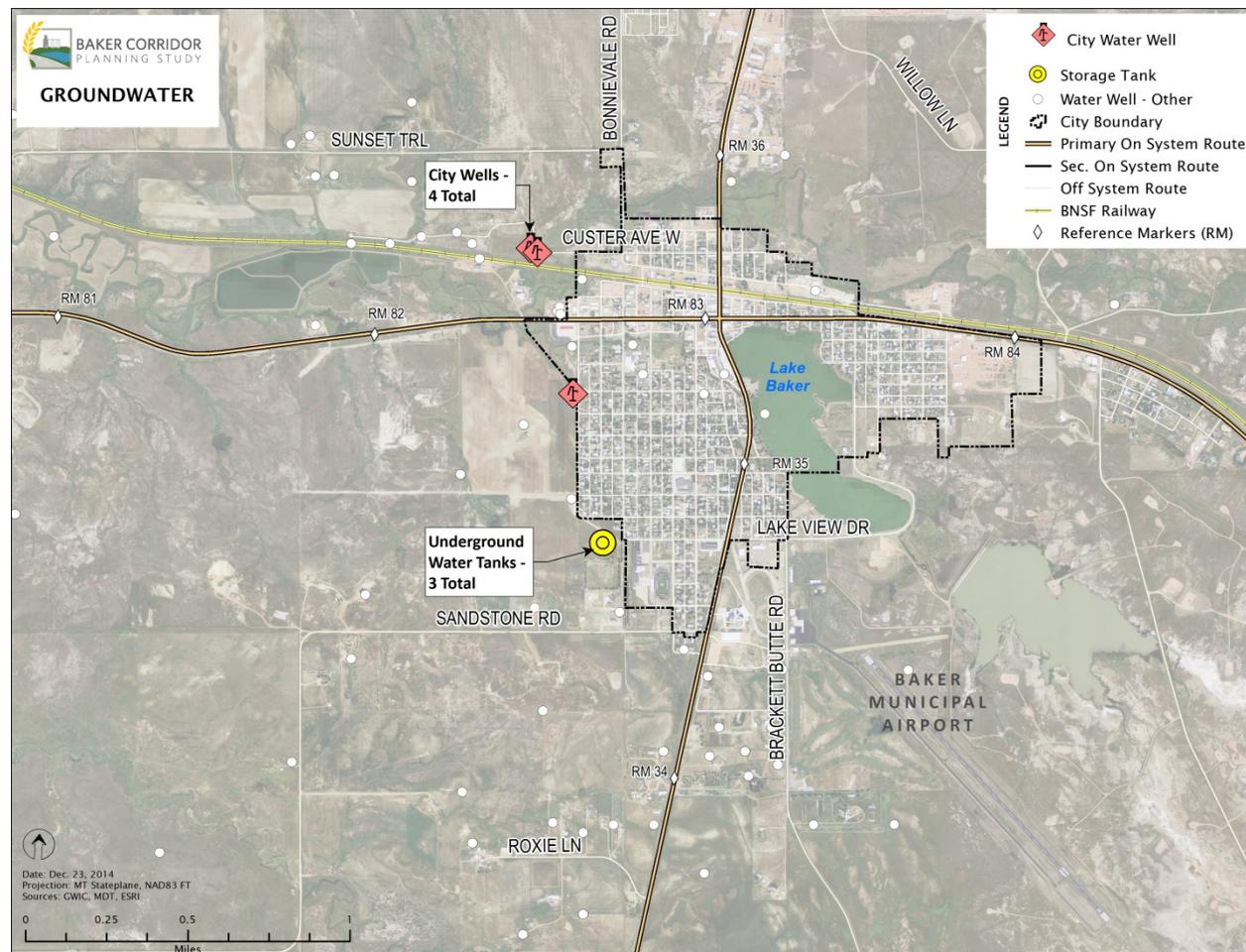
- Surface waters in the Study Area include:
 - Baker Lake
 - Sandstone Creek
 - Deep Creek
 - Red Butte Creek
 - Timber Creek
 - Irrigation
 - City lagoons
 - others
- Sandstone Creek is on the DEQ 303(d) list for impaired water bodies
 - Probable sources of impairment: agriculture and municipal point source discharges



STUDY AREA EXISTING CONDITIONS

Groundwater Resources

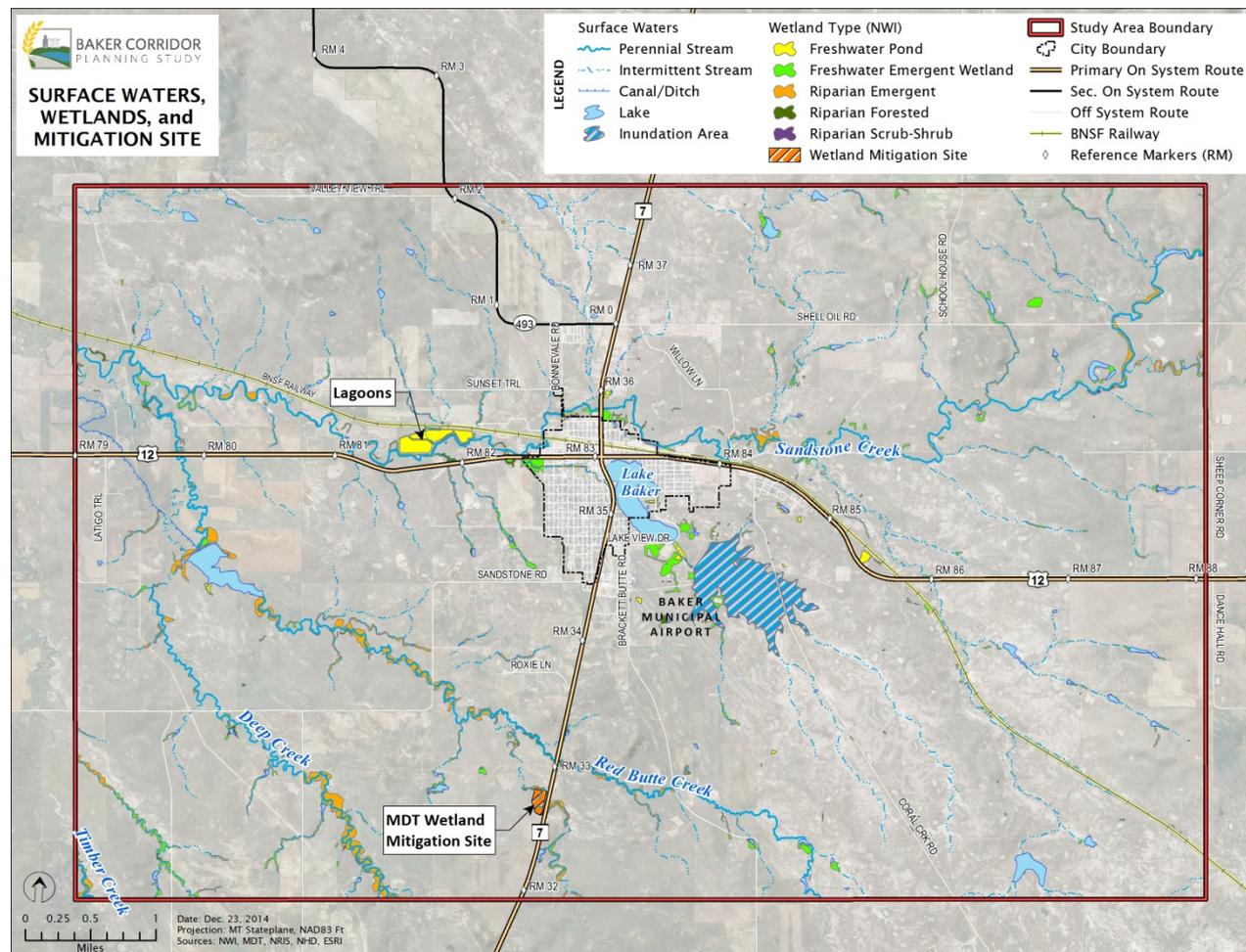
- The City of Baker has five public water supply wells in the Study Area
- Public water supply wells typically have 100' setbacks
- Study Area contains numerous stockwater and domestic wells



STUDY AREA EXISTING CONDITIONS

Wetlands

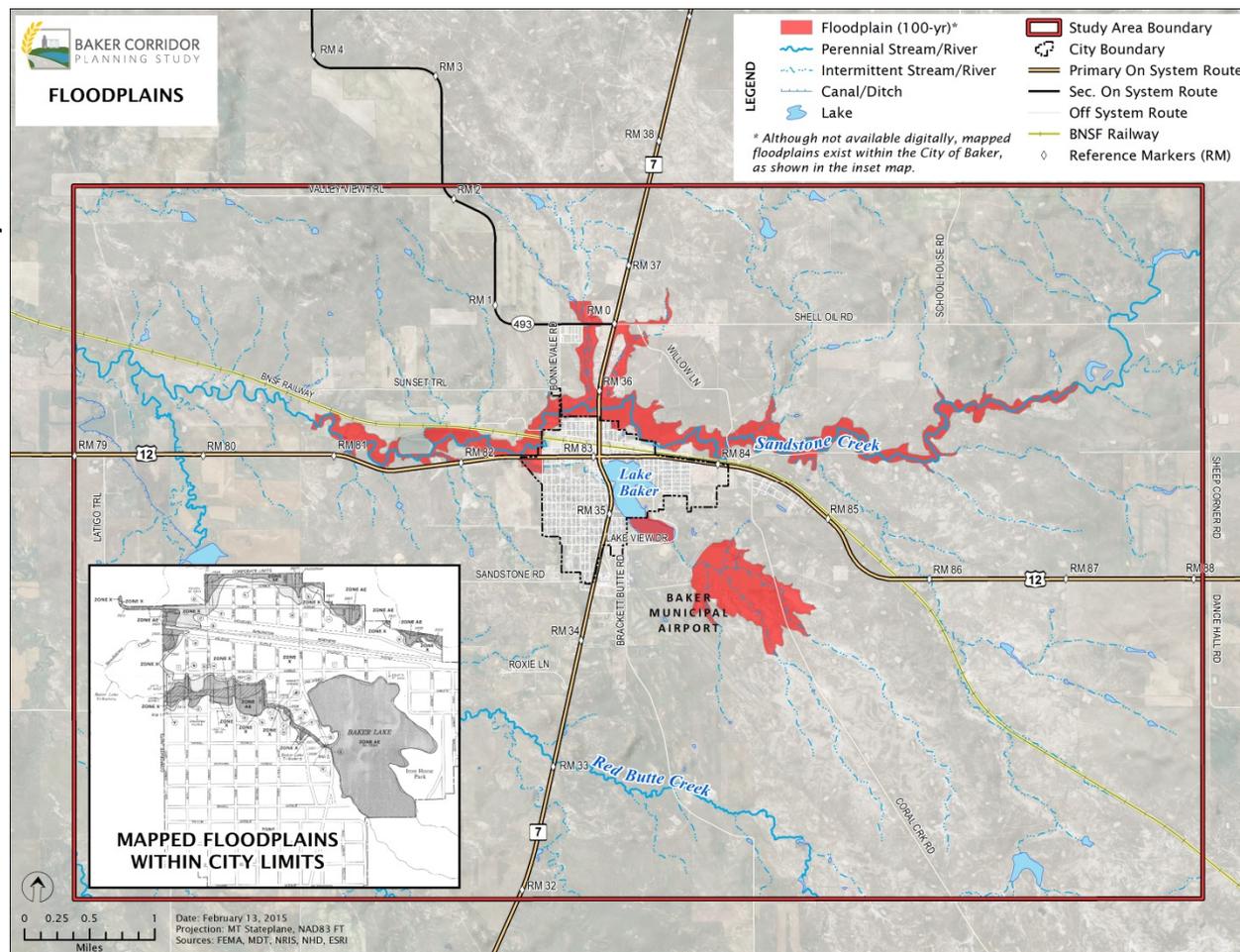
- Wetlands and waters of the U.S. are protected under the federal Clean Water Act
- Study Area includes numerous wetlands, water bodies, and unnamed drainages
- An MDT Wetland Mitigation Site located along MT 7
- Wetland delineations required when/if a project is identified for construction



STUDY AREA EXISTING CONDITIONS

Floodplains

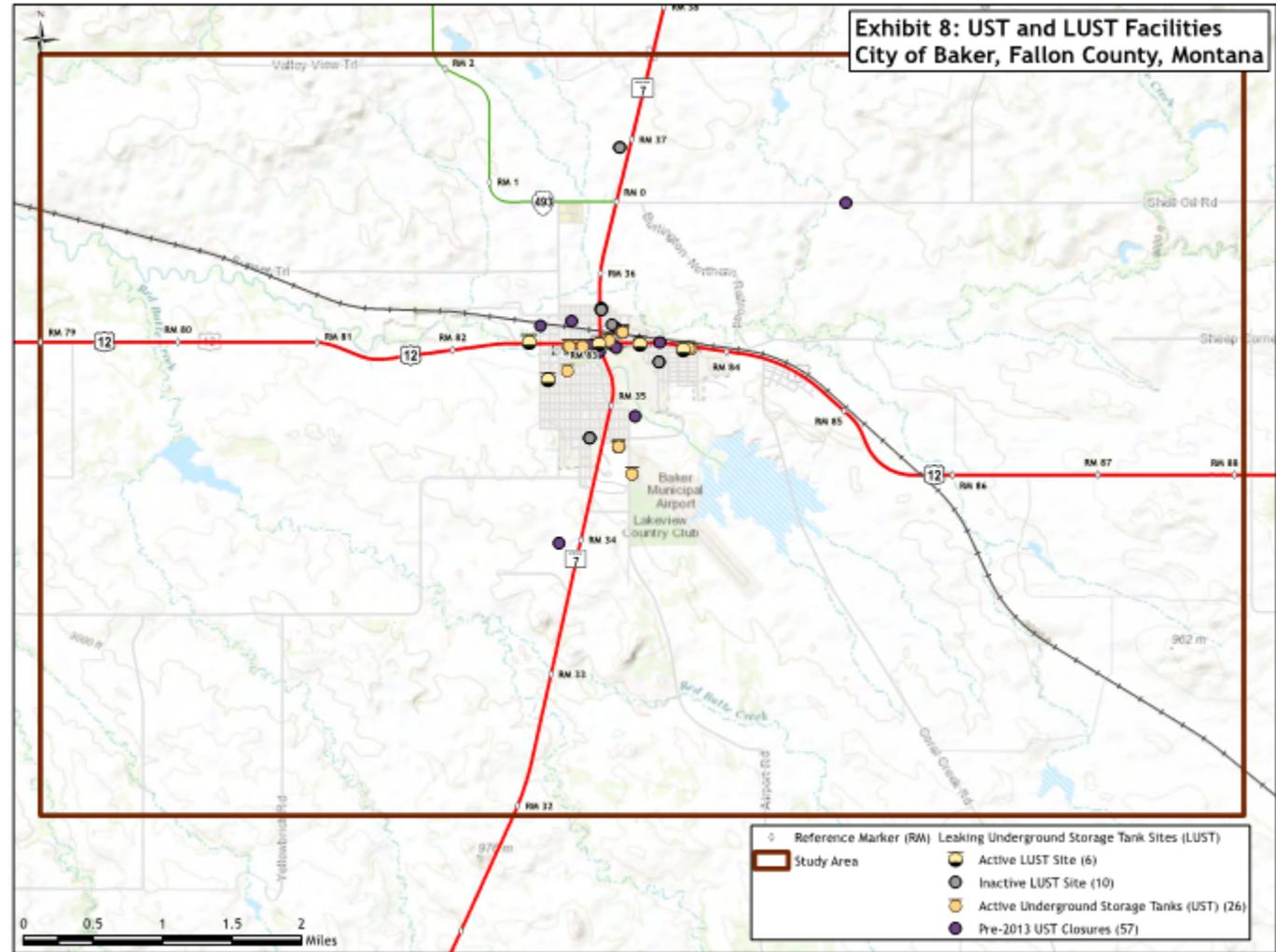
- Mapped floodplains exist along Sandstone Creek, Baker Lake, and the Baker Lake tributary within city limits
- Study Area has a history of flooding events



STUDY AREA EXISTING CONDITIONS

Hazardous Materials

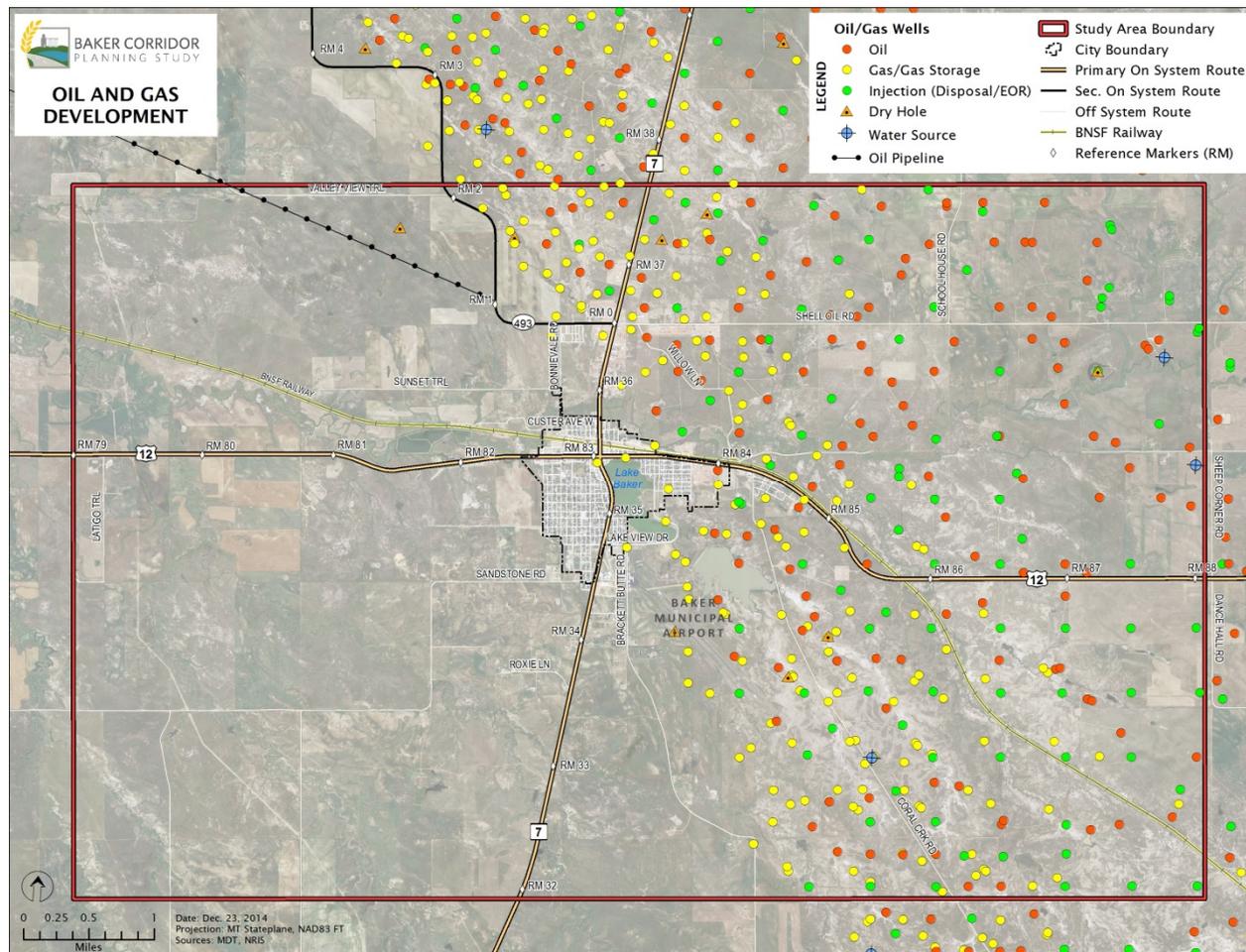
- 26 Underground Storage Tanks (USTs) in Study Area
- 6 active LUST sites
- 10 inactive LUST sites
- Abandoned mine site southwest of Baker



STUDY AREA EXISTING CONDITIONS

Oil and Gas Development

- Extensive oil and gas development within the Study Area
- One crude oil pipeline identified



STUDY AREA EXISTING CONDITIONS

General Wildlife - Mammals

- Common mammals occurring in Study Area:

Mountain lion

Raccoon

Striped skunk

Badger

Bobcat

Red fox

Beaver

Muskrat

Long-tailed weasel

White-tailed jackrabbit

Western harvest mouse

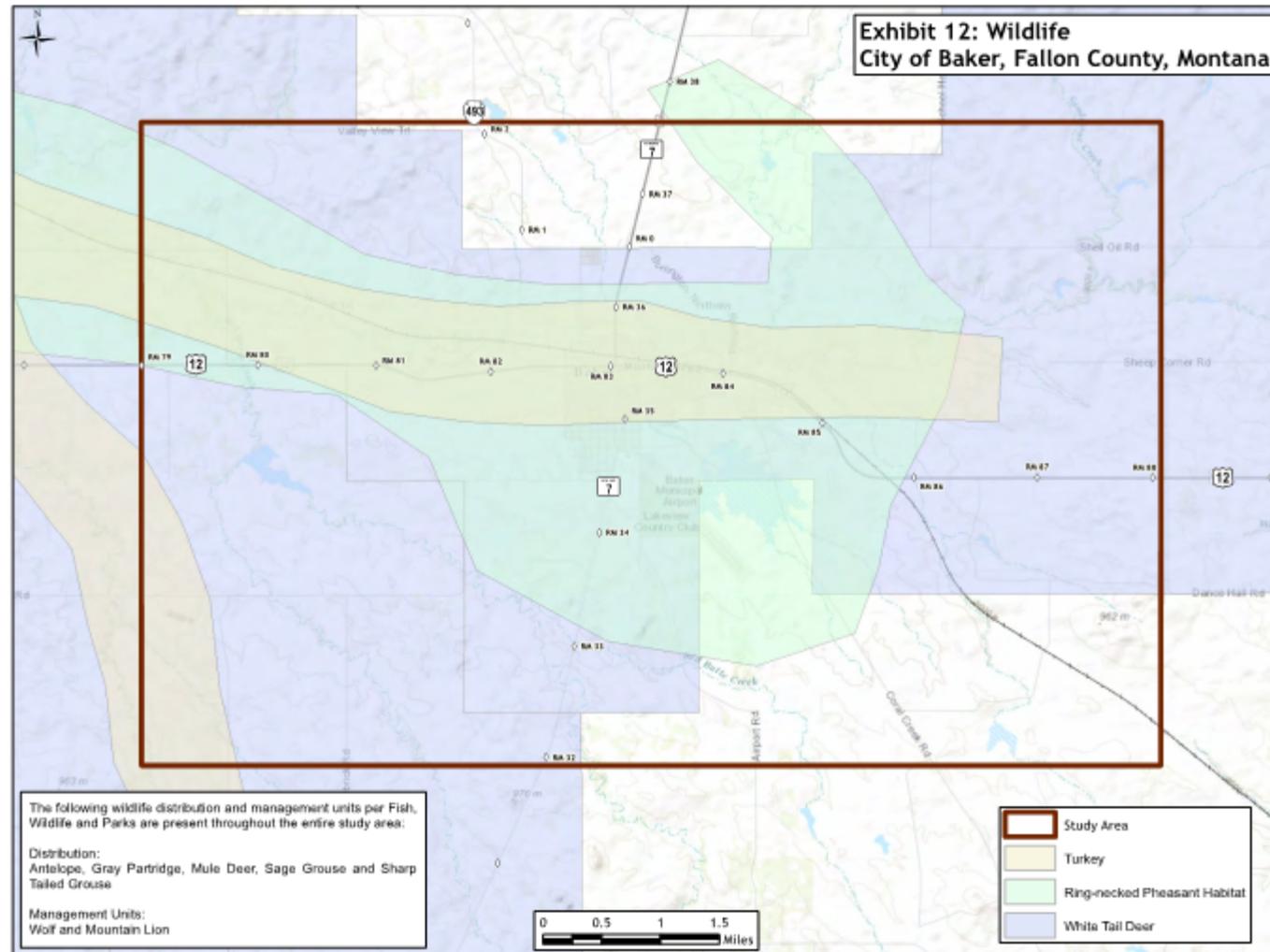
Deer mouse

Prairie vole

Turkey

White-tailed deer

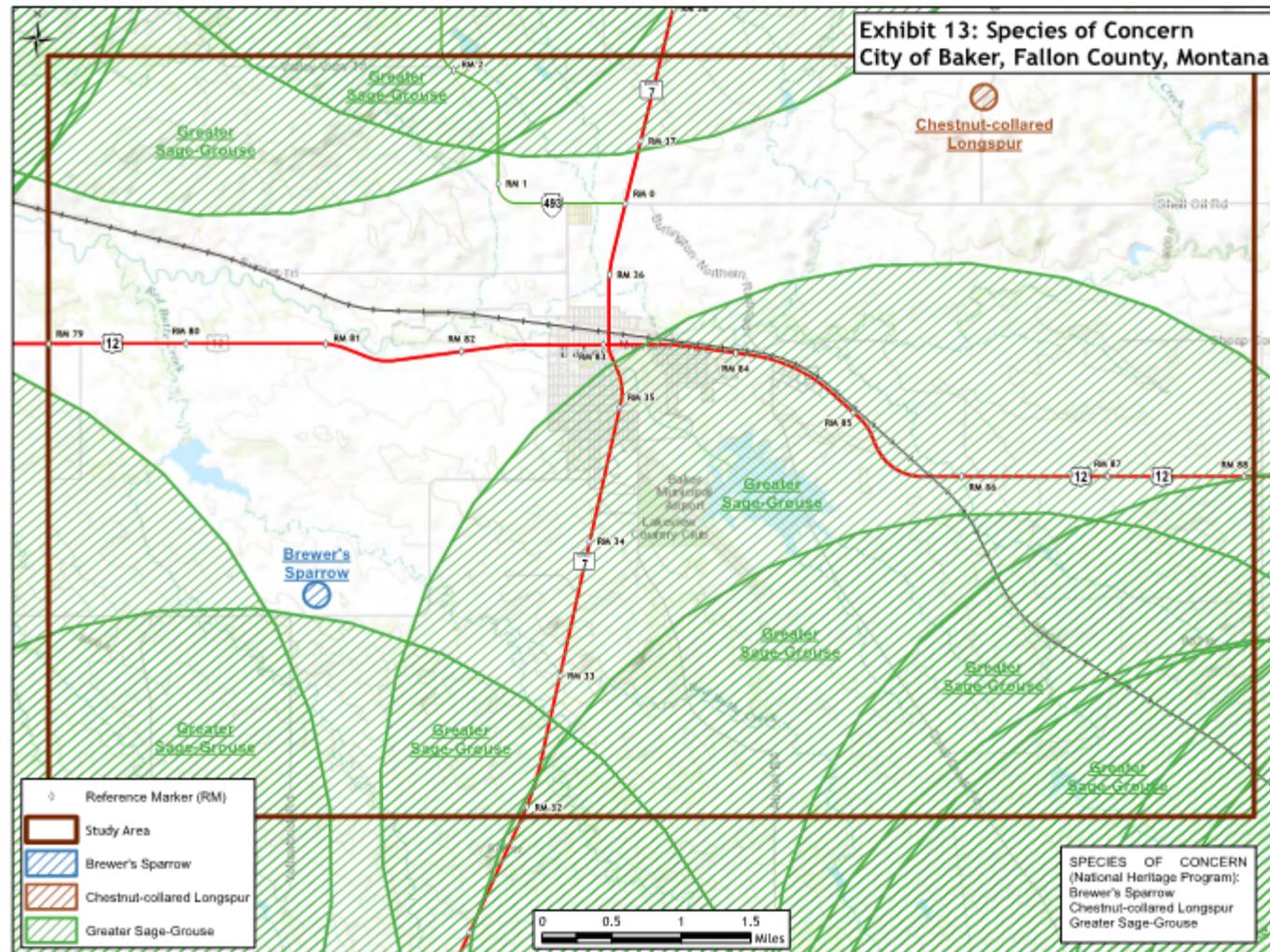
Ring-necked pheasant



STUDY AREA EXISTING CONDITIONS

General Wildlife - Birds

- No known bald eagle or golden eagle nests within Study Area
- Any forwarded project requires compliance with the MBTA and the Bald and Golden Eagle Protection Act



STUDY AREA EXISTING CONDITIONS

Montana Species of Concern

Animal Subgroup	Common Name	State ¹ Rank	Habitat Description
Birds	Greater Sage-grouse	S2	Sagebrush
	Baird's Sparrow	S3B	Grasslands
	Brewer's sparrow	S3B	Sagebrush
	Chestnut-collard Longspur	S2B	Grasslands
Fish	Brook Stickleback	S4	Small prairie rivers
	Brassy Minnow	S4	Small prairie rivers
	Plains Minnow	S4	Small prairie rivers
	Creek Chub	S4	Small prairie rivers

Source: MNHP, 2014.

¹ State rank definitions are located in Appendix C.

- Montana species of concern (SOC) are considered to be “at risk” due to:
 - declining population trends
 - threats to their habitats
 - restricted distribution

STUDY AREA EXISTING CONDITIONS

Threatened and Endangered Species

Species	Status
Greater Sage-Grouse	Candidate
Sprague's Pipit	Candidate
Red Knot	Threatened
Whooping Crane	Endangered

Source: USFWS, 2014.

- Documented occurrence within Study Area:
 - Greater Sage-Grouse
 - Sprague's Pipit
- T&E species protected under the Endangered Species Act



Greater Sage-Grouse

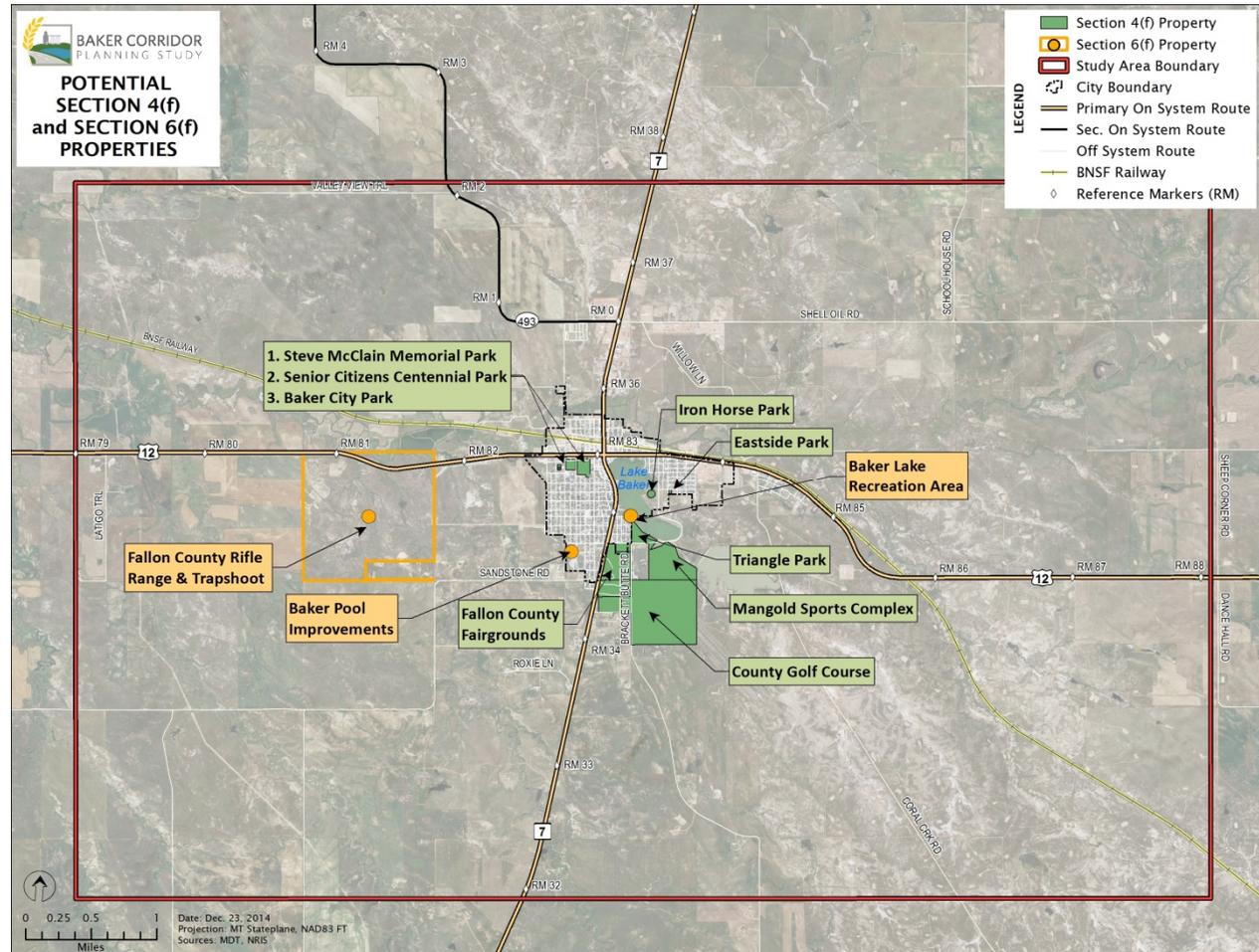


Sprague's Pipit

STUDY AREA EXISTING CONDITIONS

Recreational Resources

- Study Area includes recreational resources protected under Section 4(f) and Section 6(f)



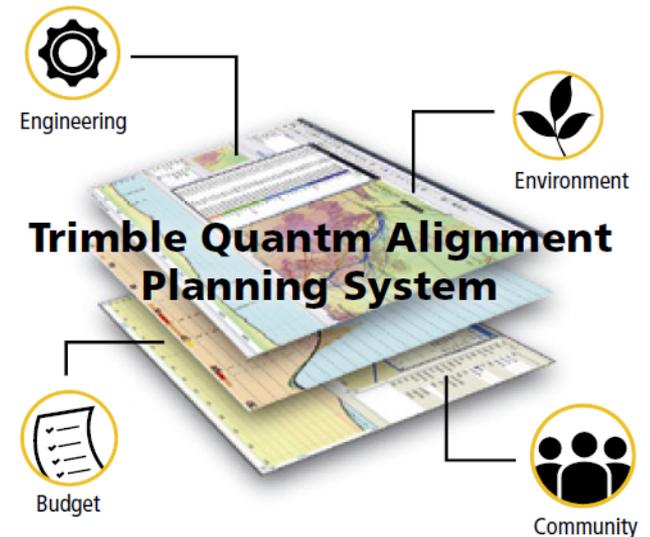
STUDY AREA EXISTING CONDITIONS

Cultural and Historical Resources

- File search through Montana SHPO revealed approximately 25 historic or archaeological properties within Study Area
 - Historic buildings
 - Bridges
 - Railroad
 - Historic irrigation system
 - Pre-contact buried campsites
 - Lithic scatters
- Forwarding improvements options require compliance with Section 106 of the National Historic Preservation Act (NHPA)
- Cultural resource surveys would be required

QUANTM ROUTE OPTIMIZATION

- Study is examining potential alternative alignments
- The Trimble Quantm Alignment Planning system:
 - Supports the planning process through corridor selection by considering the environmental, design, cost, and social factors during alternatives analysis
 - Reduces project planning time and can substantially lower construction cost
 - Has been successfully utilized by MDT on multiple pre-NEPA/MEPA corridor planning projects



NEXT STEPS...

- Continue coordination with public, resource agencies, and stakeholders
- Finalize study documents:
 - Environmental scan
 - Existing and project conditions report
- Further analysis of transportation needs
- Identification of improvement option(s)
- Develop corridor study report



MISSING INFORMATION?

- Identify any missing information not previously discussed
- Identify resource agency concerns
- Written comments are encouraged



CONCLUSION

- Questions/comments?
- For more information
 - Study website:
<http://www.mdt.mt.gov/pubinvolve/baker/>
 - Study newsletters:
 - Study contacts:

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BAKER CORRIDOR PLANNING STUDY
Project Newsletter No. 11, January 2015

In This Issue

- 1 Study Description
- 2 What is a Corridor Planning Study?
- 3 Study Area
- 4 Study Area Information
- 5 Schedule
- 6 Public Involvement Opportunities
- 7 Study Contacts

STUDY DESCRIPTION
The Montana Department of Transportation (MDT), in partnership with the Federal Highway Administration (FHWA), and in coordination with Fallon County and the City of Baker, is developing a corridor planning study that includes the City of Baker and surrounding vicinity. A need has been identified for a planning study to examine highway freight through the downtown area, as well as the internal transportation network, highway and railroad issues, and other identified transportation needs.

The goal of the study is to assess current and projected conditions in the Baker area and to develop a package of short- and long-term improvement options addressing the needs identified through the study process. The study will identify feasible improvement options to address safety, operations, and roadway areas of concern. Additionally, the study will analyze potential impacts of the improvements, identify constraint areas, and gather public, resource agency, and stakeholder input.

WHAT IS A CORRIDOR PLANNING STUDY?
A Corridor Planning Study is a pre-National Environmental Policy Act (NEPA)/Montana Environmental Policy Act (MEPA) planning study which provides for early planning level coordination with the community, local government, resource agencies, and other stakeholders to identify issues and potential transportation improvement options within the study area. The Baker Corridor Planning Study will follow the MDT Corridor Planning Process which provides a linkage between early transportation planning and the environmental review process. The process includes a planning-level analysis of the existing transportation system and the environmental setting of the study area to identify needs and constraints.

The Corridor Planning Process can benefit future project development by streamlining the environmental review process and ultimately reducing costs. The process will develop goals and objectives, identify and analyze improvement options, eliminate non-feasible options, and identify potential environmental impacts and other constraints through a public involvement process.

The Corridor Planning Process is distinct from the NEPA/MEPA environmental compliance documentation and does not include design, right-of-way acquisition, or construction phases for any individual project.

INFORMATIONAL MEETING NO. 1
(Everyone is welcome to attend.)

WHEN
Thursday, March 5th, 2015
8:00 - 8:30 p.m.

WHERE
Fallon County Fairgrounds Exhibit Hall

WHY

- Introduce the study and corridor planning process
- Present the existing conditions review
- Identify issues and constraints within the Study Area

MDT
MONTANA DEPARTMENT OF TRANSPORTATION

