

## **2019 Project Abstract**

For the Period Ending June 30, 2023

**PROJECT TITLE:** Historic Bruce Mine Park and Mesabi Trailhead

**PROJECT MANAGER:** Robert Manzoline

**AFFILIATION:** St. Louis & Lake Counties Regional Railroad Authority

**MAILING ADDRESS:** 111 Station 44 Road

**CITY/STATE/ZIP:** Eveleth / MN / 55734

**PHONE:** 218-744-1388

**E-MAIL:** bmanzoline@rrauth.com

**WEBSITE:** mesabitrail.com

**FUNDING SOURCE:** Environment and Natural Resources Trust Fund

**LEGAL CITATION:** M.L. 2019, 1<sup>st</sup> Special Session, Chp. 4, Art. 2, Sec. 2, Subd. 9(q)

**APPROPRIATION AMOUNT:** \$1,000,000

**AMOUNT SPENT:** \$1,000,000

**AMOUNT REMAINING:** \$0

### Sound bite of Project Outcomes and Results

The project entailed redeveloping a former mine site into a trailhead for the Mesabi Trail and provided an interpretative center and park for the Bruce Mine Headframe Historic Site located in Chisholm, MN. A self-guided tour includes an interpretive center and plaques explaining how the relics operated in the past by using the remaining structures including the headframe, railroad track, and various structural foundations. The Park serves as a trailhead for the Mesabi Trail, providing parking, restrooms, and information to travelers and trail users.

### Overall Project Outcome and Results

The project tells the story of the Bruce Mine and headframe, constructed in 1926 by the Harvester Company, in how equipment and manpower were used to haul iron ore up from the underground mine, loaded onto tram cars for storage or processing, then transported by rail to the ore ships on Lake Superior. The Iron Range has libraries' worth of historical stories, and the Bruce Headframe is the last standing headframe on the Mesabi Iron Range. Preserving and interpreting this site for generations to come is an important piece of mining history. The project first required an extensive review process from the Minnesota State Historic Preservation Office (SHPO) requirements to ensure the historic site was preserved to the recommended standards. SHPO reviewed site plans and environmental analysis and made recommendations to ensure the integrity of the historic location (See Research Addendum). We worked with the City of Chisholm's Beautification Association and received their input for the project. As the project budgets were developed, we learned that implementing their recommendations wasn't possible within the original budget, and an additional grant amount of \$400,000 was approved by the State of MN to meet these goals. The environmental and historical reviews were completed; engineering plans, construction management, and construction for the interpretive park have all been completed.

### Project Results Use and Dissemination

A ribbon cutting ceremony was held by the Chisholm Beautification Association on August 4, 2023.

Mesabi Trail news and updates are provided through a variety of media, marketing and publications. Web site is: Mesabitrail.com. The following are some of the groups and organizations that disseminate Mesabi Trail information and typically include updates of newly completed trail segments and activities:

- Club Mesabi (10,000 maps & web site)
- Iron Range Tourism (30,000 brochures & web site)

- MN Office of Tourism
- ampers radio
- Parks & Trails, Home & Away, other private magazines
- 200,000 trail users per year
- Yearly “Mesabi Trail Tour” 700 registered riders
- Named by Bicycle Magazine as” top 10 in the country”
- Coop visitors with the Minnesota Discovery Center



# Environment and Natural Resources Trust Fund (ENRTF) M.L. 2019 ENRTF Work Plan (Main Document) – Final Report

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**Today's Date:** November 20, 2023

Final Report

**Date of Work Plan Approval:** June 17, 2019

**Project Completion Date:** June 30, 2023

**Does this submission include an amendment request?** Yes

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**PROJECT TITLE:** Historic Bruce Mine Park and Mesabi Trailhead

**Project Manager:** Robert Manzoline

**Organization:** St. Louis and Lake Counties Regional Railroad Authority

**College/Department/Division:**

**Mailing Address:** 111 Station 44 Road

**City/State/Zip Code:** Eveleth, MN 55734

**Telephone Number:** 218-744-2653

**Email Address:** bmanzoline@rrauth.com

**Web Address:** mesabitrail.com

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**Location:** located in the northeast region of Minnesota and within St. Louis County and within Balkan Township and within the City of Chisholm

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**Total Project Budget:** \$1,000,000

**Amount Spent:** \$1,000,000

**Balance:** \$0

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**Legal Citation:** M.L. 2019, 1<sup>st</sup> Special Session, Chp. 4, Art. 2, Sec. 2, Subd. 9(q)

**Appropriation Language:**

\$1,000,000 the first year is from the trust fund to the commissioner of natural resources for a grant to the St. Louis and Lake Counties Regional Railroad Authority to engineer, design, renovate, and construct the Historic Bruce Mine Park and Mesabi Trailhead and access in the city of Chisholm. This appropriation is available until June 30, 2023, by which time the project must be completed and final products delivered.

**I. PROJECT STATEMENT:** The project goal is to redevelop a former mine site into a trailhead for the Mesabi Trail and provide an interpretative center and park for the Bruce Mine Headframe Historic Site.

The overall goal is to create the Bruce Mine Park where patrons will be able to envision what it was like pulling ore from the ground and preparing it for shipment. A self-guided tour will have an interpretive center and plaques explaining how the relics operated in the past by using the remaining structures including the headframe, railroad track and various structural foundations. The Park will serve as a trailhead for the Mesabi Trail providing parking, restrooms and information to travelers and trail users of the local and regional area.

The project will tell the story of the Bruce Mine and headframe, constructed in 1926 by the Harvester Company, in how equipment and manpower was used to haul iron ore up from the underground mine then loaded onto tram cars for storage or processing then transported by rail to the ore ships on Lake Superior.

The Iron Range has libraries worth of historical stories and the Bruce Headframe is the last standing headframe on the Mesabi Iron Range. Preserving and interpreting this site for generations to come is an important piece of mining history.

## **II. OVERALL PROJECT STATUS UPDATES:**

### **First Update March 1 (submitted March 18, 2020)**

The Chisholm Beautification Association, made up of citizens and city staff have been researching historic records and salvaging articles like a skiff and narrow gauge rails that were used in the underground to haul ore to the headframe to be delivered to the surface for shipping. The skiff and rails will be used at the site. They have also provided many pictures that may be used for the interpretive signs. Minnesota Power has relocated a power line on the north side of the project to make the headframe and proposed stairwell improvements comply with the required power line clearances.

The RRA and the City of Chisholm are resolving agreements on the scope of liabilities and responsibilities for the site.

### **Second Update September 1, 2020 (submitted September 14, 2020)**

Environmental Review and clearance continue for the updated design plans of the Bruce Mine Headframe Trailhead and Park per the following amendment request.

### **Amendment Request (Amendment Approved by LCCMR 9/15/2020)**

We would like to increase the Environmental consultant for Environmental Clearance Activity 1 budget line item by \$22,000 from \$8,000 to \$30,000 and decrease the Construction budget line by \$22,000 from \$615,500 to \$593,500. This change is being requested because we have been continuing with the Cultural Resources and Design Review which is required by the Minnesota State Historical Preservation Office (SHPO). The review is much more extensive than we had planned as the Bruce Mine Headframe Trailhead and Park may need to be classified as an Historic District. The final review by SHPO and Cultural Resources – 106 Group may bring the total cost up even more with the extensive research and documentation requirements looking into the site as a potential Historic District. (See changes to the budget sheet for this amendment request).

### **Third Update March 1, 2021 (Submitted March 9, 2021)**

The overall design plans for the Bruce Mine Headframe site have been completed. These design plans were submitted to the MN State Historical Preservation Office (SHPO) for their final review, which in addition to the September 2020 Amendment Request, they have also determined that additional archeological services are

required. The services include on-site monitoring and an unanticipated discoveries plan during construction. This will require an amendment as described in the March 2021 Amendment Request.

With the overall design plans completed, the project will be advertised for construction bids during this month March 2021. Once a contractor is selected, they can begin the construction.

**Amendment Request (March 9, 2021) Amendment Approved by LCCMR 3/11/21**

We would like to increase the Environmental consultant for Environmental Clearance Activity 1 budget line item by \$15,000 from \$30,000 to \$45,000 and decrease the Construction budget by \$15,000 from \$593,500 to \$578,500. These changes are due to the review by SHPO and now requiring Duluth Archeology, Inc. to perform regular monitoring of the Bruce Mine Headframe site for the development of a monitoring/unanticipated discoveries plan during construction.

**Fourth Update September 1, 2021 (Submitted September 13, 2021)**

The project is about 12% completed. Several developments have occurred since the March 2021 update. First, the construction bid was awarded to the bidder Mesabi Bituminous. The bid was above our construction budget; therefore, several meetings took place to generate an alternatives list which reduced the construction costs. With the final design plans completed to include these reductions, clearing the site commenced by the contractor. Second, a new funding source for an additional \$400,000 has been assigned to the project: M.L. 2021, First Special Session, Chp. 6, Art. 1, Sec. 3, Subd. 5(m). Further meetings then were held to add the alternatives back to the project, along with new additional items. These new additional items will require further review by the State Historic Preservation Office (SHPO) as additional work is included for the improvement of the headframe structure. The 106 Group was contacted to perform the analysis for the additional items.

**Fifth Update March 1, 2022 (Submitted March 10, 2022)**

The 106 Group completed their assessment of the additional work for the project, which were nothing of significance. They have submitted their report to the State Historic Preservation Office (SHPO) for their review of the additional work on February 7, 2022. Meanwhile, the electrical work at the site is 90% completed. The contractor continued preparing and clearing the site until winter weather and will be starting up again this spring. Due to the additional funds and in turn the additional work added to the project, we would like to amend the budget for additional environmental review and engineering. We are planning on using the LCCMR funds first, then tap into the additional funds. This project is about 30% completed and are looking to complete by the end of this year 2022, if no issues arise from SHPO.

**Amendment Request (March 10, 2022)**

Due to the additional funds and work added to the project and to utilize the funds from this LCCMR project first, we would like to transfer \$23,000 from the construction budget (\$578,000 to \$555,500) to add \$18,000 to the Professional Architect and Engineer for construction management budget (\$30,000 to \$48,000). Also, add \$5,000 to the environmental clearance budget (\$45,000 to \$50,000). Additional environmental clearance and engineering design and management are needed for the additional work.

Additionally, to extend the project to June 30, 2023 to match the appropriation duration.

**Amendment Approved by LCCMR 4/7/2022**

**Sixth Update September 1, 2022 (Submitted September 9, 2022)**

The State Historic Preservation Office (SHPO) reviewed the additional work proposed by the engineers and have approved. The Chisholm Beautification Association (CBA) proposed adding a sheave wheel and skip cage to be assembled on the Bruce Mine Headframe structure to display as the original Headframe when it was operational. There had to be a structural analysis of the Headframe itself to ensure that this would be possible.

The engineering group could not get a complete analysis finished and determined it would take more time to inspect the structure due to equipment availability. Also, if the sheave wheel were to be attached to the Headframe, this would be the next priority to the project as cranes and various equipment would be needed before any landscaping or construction could be done. After bringing this information back to the CBA, they determined the sheave wheel and skip cage be located on the ground displayed next to the Headframe structure with additional informational signage. After this determination, construction could commence and has restarted at the end of August.

#### **Seventh Update March 1, 2023 (Submitted March 9, 2023)**

Once construction started again in September, many items were completed such as landscaping, water drainage, tree removal and brush cleanup. The concrete foundations of the mine buildings and structures were cleaned up from brush and debris. The Headframe also received missing structural components and made to be more stable. As a setback, there was a concrete shortage in Northeastern MN and had to wait an extra 2 weeks for a vessel shipment for concrete. Many construction jobs in this area were put on hold waiting for this shipment. We were able to get the concrete poured and most of the sidewalks in place after the delay, with construction stopping for the winter season in early November. We also ran into some landscaping issues near the former Sintering Plant where pooling of water may occur and old rock dumped in the area. We needed to involve the Duluth Archeological Center for review and submit a report to the State Historic Preservation Office (SHPO) for review and approval to allow digging and filling this low-lying area around the Sintering Plant. On February 26, 2023, we receive the approval from SHPO to move forward with the necessary recommendations. Construction will start again when the snow melts this spring working towards completing the project by June 30, 2023.

#### **Amendment Request (March 9, 2023)**

Having run into additional engineering work near the Sintering Plant, a budget amendment is needed for this work along with future forecasting of engineering for the additional work added in regards to our other \$400,000 funding source. The engineering budget will need to increase by \$22,000 from \$48,000 to \$70,000. In turn, the construction for site improvements budget will decrease by \$22,000 from \$555,500 to \$533,500. The additional funding source of \$400,000 will help with our remaining construction budget. We have been seeing construction costs increasing, but the project team of the RRA, engineering firm, contractor and CBA have been in close contact with meetings and budget forecasting. We have removed some items from our construction plans namely, the Mine Overlook and attaching the sheave wheel and skip cage to the Headframe itself. The sheave wheel and skip cage will now be located within the fenced in area displayed on the ground. With these changes, we feel that the remaining amount of \$440,211 from this grant and \$400,000 from the MN State grant we should have enough funds to complete the project. We are hoping for a mild spring where construction can start and will need to work to meet the June 30 completion date. See the attached budget sheet for the amended details.

#### **Amendment Approved by LCCMR 3/31/23**

#### **Final Report between project end (June 30, 2023) and July 15, 2023 (Submitted November 20, 2023)**

The project tells the story of the Bruce Mine and headframe, constructed in 1926 by the Harvester Company, in how equipment and manpower was used to haul iron ore up from the underground mine, then loaded onto tram cars for storage or processing, then transported by rail to the ore ships on Lake Superior. The Iron Range has libraries' worth of historical stories and the Bruce Headframe is the last standing headframe on the Mesabi Iron Range. Preserving and interpreting this site for generations to come is an important piece of mining history. The project first required an extensive review process from the Minnesota State Historic Preservation Office (SHPO) to ensure the historic site was preserved to the recommended standards. Site plans and environmental analysis were developed for their review, and they made recommendations to ensure the integrity of the historic location (See Research Addendum). We worked with the City of Chisholm's Beautification Association and received input of their wants and needs for the project. As the project budgets were developed, the wants

and needs for the project were too much and we had to remove some items. An additional grant amount of \$400,000 was approved by the State of MN, and we were able to add these items back into the project. As our initial site plans have changed throughout the project, more reviews were required from SHPO. In conclusion, the environmental and historical reviews were completed and engineering plans, construction management, and construction for the interpretive park have all been completed.

**Amendment Request November 20, 2023**

In order to complete the project, the following minor changes need to be made to the final budget as our costs are finalized (also shown on the budget sheet):

- Decrease the Environmental budget from \$50,000 by \$7,636 to \$42,364
- Increase the Engineering budget from \$70,000 by \$3,536 to \$73,536
- Increase the Construction budget from \$533,500 by \$4,100 to \$537,600

**Amendment Approved by LCCMR 3/15/24**

**III. PROJECT ACTIVITIES AND OUTCOMES:**

**ACTIVITY 1 Title: Environmental Clearance**

**Description:** The project will involve construction that will disturb earth and vegetation requiring an environmental assessment be performed. The assessment area, based on the project design, will be evaluated for negative environmental impacts and potential cultural resource disturbance. The environmental review will include field investigations and historical research of existing plant, animal, water resources, cultural remnants and other potential environmental impacts caused by development of the project. As needed, permits will be secured from agencies having jurisdiction over impacted areas. Wetland mitigation is not anticipated for this project.

**ACTIVITY 1 ENRTF BUDGET: \$42,364**

Outcome	Completion Date
1. Environmental Clearance	November 2019

**Activity 1 Environmental clearance**

**Activity 1 First Update March 1 (submitted March 18, 2020)**

The grading and base have been completed for an access road, parking lot, and interpretive walking trails at the site. The environmental work for the headframe project is minimal. Approval from other regulatory agencies were obtained previously for the grading and base construction of the access road, parking lot and walking trails and paid for with others funds.

**Activity 1 Second Update September 1, 2020 (submitted September 14, 2020)**

Cultural Resources – 106 Group provided a review of the Bruce Mine Headframe site along with updated design plans submitted by engineering. They have issued their report with respect to the design and provided an analysis for classifying the site as a potential Historic District. The report was submitted to SHPO for their review.

**Activity 1 Third Update March 1, 2021 (Submitted March 9, 2021)**

SHPO completed their review of the overall design plans with the following recommendations with our updates:

1. An archaeologist on-site during construction to monitor the process documenting features and or artifacts that may be encountered. The archeologist will have the authority to stop construction in case of discovery, document the discovery, assess unanticipated effects to previously identified features and consult with SHPO on appropriate documentation, assessment of effects and course of action. The Duluth Archaeological Center will be the on-site archaeologist.
2. The proposed 8 foot high picket fence around the Bruce Mine Headframe will be painted grey instead of black to blend-in with the historic structure.
3. The proposed planting plan has been changed so that all trees and perennials will be planted in a manner that evokes a more natural setting rather than a more formal planting plan.
4. The proposed Large Shelter roofline has been lowered to a point whereby the roof line is in keeping with the structural aesthetics of the building and to minimize detracton from the headframe structure.

**Activity 1 Fourth Update September 1, 2021 (Submitted September 13, 2021)**

Due to further updates to the Bruce Mine Headframe because of the additional funds awarded to this project, further environmental clearance is required by SHPO. The 106 Group were contacted and will be providing their analysis for the proposed additional work to the Bruce Mine Headframe structure.

**Activity 1 Fifth Update March 1, 2022 (Submitted March 10, 2022)**

The 106 Group completed their analysis of the additional work for the project, which they have submitted to SHPO on February 7, 2022. Their findings were of no significant impact, which were to add a sheave wheel, Skip cage, additional signage and graffiti removal from the Headframe. We are currently waiting for SHPO's final review and report. With construction to continue starting again this spring, archeological monitoring will also continue during any digging portion of the construction.

**Activity 1 Sixth Update September 1, 2022 (Submitted September 9, 2022)**

SHPO has completed their review and have approved the additional work proposal on March 24, 2022, with the revisions to the project has been designed in accordance with the Standards and will have no adverse effect on the historic properties.

**Activity 1 Seventh Update March 1, 2023 (Submitted March 9, 2023)**

We ran into some landscaping issues near the former Sintering Plant where pooling of water could occur and rock in the area. We needed to involve the Duluth Archeological Center for review and submit a report to the State Historic Preservation Office (SHPO) for review and approval to allow digging and filling this low-lying area around the Sintering Plant. On February 26, 2023, we receive the approval from SHPO to move forward with the necessary recommendations.

**Activity 1 Final Report between project end (June 30, 2023) and July 15, 2023 (Submitted November 20, 2023)**

This activity has been completed.

**ACTIVITY 2 Title: Architectural Design and Engineering**

**Description:** The project will involve architectural, landscape and engineering design for all project elements including structures, roadways, parking, landscaping, interpretative signs, pathways lighting, sewers, water pipelines and other. The project will be designed by professional architects and engineers whom will provide concept planning, public presentation, estimated costs, final plans, bidding and construction management. A

preliminary concept plan is attached to this workplan and the basis for advancing this work. The entire facility will be compliant with regulations set forth within the Americans with Disabilities Act.

**ACTIVITY 2 ENRTF BUDGET: \$157,536**

Outcome	Completion Date
1. Design and survey	April 2020
2. Construction management, testing, permits	August 2021

**Activity 2 Architectural Design and Engineering**

**Activity 2 First Update (submitted March 18, 2020)**

**1.Design and survey**

The survey work was completed when the access road, parking lot, and walking trail were previously developed. The civil design for the paving of the access road, parking lot, and walking trails is 90% complete. The architect and structural engineer are working on the report and design for the improvements on the headframe. The headframe is presently in a secure enclosure. The goal of the project is to make the headframe accessible and safe for the public.

**2. Construction management, testing, permits**

No construction under the scope of this grant has taken place.

**Activity 2 Second Update September 1, 2020 (submitted September 14, 2010)**

**1.Design and survey**

Engineering design is completed with submittal of the plans sent to Cultural Resources and SHPO for review.

**2. Construction management, testing, permits**

No construction has taken place.

**Activity 2 Third Update March 1, 2021 (Submitted March 9, 2021)**

The design and plans were reviewed by Cultural Resources – 106 Group and SHPO. SHPO’s summary of recommendations along with our actions to accommodate the recommendations are discussed in the Activity 1 update. The overall design and plans for the Bruce Mine Headframe site are completed, with bidding for construction will take place this month March 2021.

**Activity 2 Fourth Update September 1, 2021 (Submitted September 13, 2021)**

Bidding for the construction of the project took place and the construction contract was awarded to the bidder: Mesabi Bituminous. Their bid was above our construction budget, which then followed meetings to discuss reducing the construction costs to be within the budget. The items reduced were categorized as add alternates and removed from the project design. Next, we discovered that an additional \$400,000 in grant funding was awarded to the project. We made the add alternates back part of the project, along with additional items brought up during meetings with the City of Chisholm Beautification Committee. These items dealt with updating and improving the headframe structure, which will again need to be reviewed by SHPO. Engineering will be creating a design plan for these changes. The 106 Group was contacted and will provide their analysis of these additional changes to SHPO. Construction to the property and landscaping will continue.

**Activity 2 Fifth Update March 1, 2022 (Submitted March 10, 2022)**

Construction management continued to winter when construction had to stop, which will start back up in the spring. Architectural design and engineering conducted several meetings, informational sessions and completed

their design of the additional work which was reviewed by the 106 Group. Now this is in the hands of SHPO and are waiting for their analysis and review.

**Activity 2 Sixth Update September 1, 2022 (Submitted September 9, 2022)**

Architectural design and additional design have been completed. As stated, SHPO has completed their review of the additional work and accepted. Engineering construction management continues.

**Activity 2 Seventh Update March 1, 2023 (Submitted March 9, 2023)**

Engineering Construction Management continues for the project and will be completed by June 30, 2023.

**Activity 2 Final Report between project end (June 30, 2023) and July 15, 2023 (Submitted November 20, 2023)**

Engineering construction management is completed as the project is completed. Weekly meetings were held at the production site for steering the project to completion.

**ACTIVITY 3 Title: Site Improvements/Construction**

**Description:** construction will be performed in accordance with the plans and specifications developed by the architect and engineer. A contractor will be selected to perform this work based on the St. Louis County public bidding process. Construction work will include clearing and grubbing the site, installation of asphalt paving, curbs, gutters, sidewalks, electrical systems, buildings, kiosks, signs, landscaping, seeding, tree planting and other.

**ACTIVITY 3 ENRTF BUDGET: \$800,100**

<b>Outcome</b>	<b>Completion Date</b>
1. Site clearing, grubbing and landscaping	July 2020
2. Mechanical and electrical systems	August 2020
3. Site improvements	August 2021

**Activity 3 Site Improvements/Construction**

**Activity 3 First Update (submitted March 18, 2020)**

No construction has taken place under the scope of this grant.

**Activity 3 Second Update September 1, 2020 (submitted September 14, 2020)**

No construction has taken place.

**Activity 3 Third Update March 1, 2021 (Submitted March 9, 2021)**

Bidding for construction is scheduled for this month March 2021. Once a contractor is selected, construction can begin.

**Activity 3 Fourth Update September 1, 2021 (Submitted September 13, 2021)**

Mesabi Bituminous was awarded the contract to perform the construction of this project. Digging and landscaping has started which will continue until winter.

**Activity 3 Fifth Update March 1, 2022 (Submitted March 10, 2022)**

We are about 30% completed with the project. Construction stopped in the winter and will start back up again this spring. Right now, the plan is to complete the project by the end of 2022, if no issues arise from SHPO.

**Activity 3 Sixth Update September 1, 2022 (Submitted September 9, 2022)**

With the delay of reviewing the Headframe structure for the attachment of the sheave wheel and deciding to locate the sheave wheel on the ground next to the Headframe, construction of the site has started in late August. SHPO has completed their analysis, which we are still looking for completion at the end of 2022.

**Activity 3 Seventh Update March 1, 2023 (Submitted March 9, 2023)**

Construction has started in August 2022 until had to end in November due to the winter weather. The clearing of debris, landscaping for water drainage and around the concrete building footprints, pouring of the sidewalks, adding structure components to the headframe, tree removal has all been completed. Construction was delayed about 2 weeks due to a concrete shortage in the area, which delayed the pouring of the sidewalks. Major items to be completed: road forming and paving, curb and gutters, shelter building, headframe graffiti removal, further landscaping, tree and grass planting, install the informational signage, and placement of skip cage and sheave wheel. Once the snow clears this spring, the construction will continue to June 30, 2023 for project completion.

**Activity 3 Final Report between project end (June 30, 2023) and July 15, 2023 (Submitted November 20, 2023)**

Site clearing, grubbing, mechanical, electrical systems, and site improvements have all been completed. The site improvements include: a paved roadway, parking lot, concrete curbs and sidewalks, electrical lighting, landscaping, drainage, exposed concrete foundations of the buildings, clearing of foundations, interpretive signs displaying the history of the site, entrance sign, planting, seeding, fencing, installation of two ore railcars, placement of two sheave wheels, boulder placement, structural upgrades to the headframe and graffiti removal. Please see the attached design plans and research addendum for detailed information about the site improvements.

**IV. DISSEMINATION:**

**Description:** Mesabi Trail news and updates are provided through a variety of media, marketing and publications. Web site is: Mesabitrail.com. The following are some of the groups & organizations that disseminate Mesabi Trail information and typically include updates of newly completed trail segments and activities:

- Club Mesabi (10,000 maps & web site)
- Iron Range Tourism (30,000 brochures & web site)
- MN Office of Tourism
- Ampers radio
- Parks & Trails, Home & Away, other private magazines
- 200,000 trail users per year
- Yearly “Mesabi Trail Tour” 700 registered riders
- Named by Bicycle Magazine as” top 10 in the country”
- Coop visitors with the MN Discovery Center

The Minnesota Environment and Natural Resources Trust Fund (ENRTF) will be acknowledged through use of the trust fund logo or attribution language on project print and electronic media, publications, signage, and other communications per the [ENRTF Acknowledgement Guidelines](#).

**First Update March 1, 2020 (submitted March 18, 2020)**

No new updates.

**Second Update September 1, 2020 (submitted September 14, 2020)**

No new updates.

**Third Update March 1, 2021 (Submitted March 9, 2021)**

No new updates.

**Fourth Update September 1, 2021 (Submitted September 13, 2021)**

No new updates

**Fifth Update March 1, 2022 (Submitted March 10, 2022)**

No new updates

**Sixth Update September 1, 2022 (Submitted September 9, 2022)**

No new updates

**Seventh Update March 1, 2023 (Submitted March 9, 2023)**

No new updates

**Final Report between project end (June 30, 2023) and July 15, 2023 (Submitted November 20, 2023)**

A ribbon cutting ceremony was held by the Chisholm Beautification Association on August 4, 2023.

Mesabi Trail news and updates are provided through a variety of media, marketing and publications. Web site is: Mesabitrail.com. The following are some of the groups & organizations that disseminate Mesabi Trail information and typically include updates of newly completed trail segments and activities:

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**V. ADDITIONAL BUDGET INFORMATION:**

**A. Personnel and Capital Expenditures**

Facilities constructed for this project will have a useful life of greater than 20 years as exhibited by other LCCMR grant funds used for constructing other segments of the Mesabi Trail project. The intended use of the Historic Bruce Mine Park and Mesabi Trailhead is not foreseen to change nor will the facility be sold.

**Explanation of Capital Expenditures Greater Than \$5,000:** Cost for constructing this facility as explained within Activity 3 exceeds \$5,000. Facilities constructed for this project will have a useful life of greater than 20 years as exhibited by other LCCMR grant funds used for constructing other segments of the Mesabi Trail project. The

intended use of the Historic Bruce Mine Park and Mesabi Trailhead is not foreseen to change nor will the facility be sold.

Estimated costs for capital expenditures are seen in within Attachment A, Budget Spreadsheet and further described as follows:

Selective Site Demolition & Grading: includes clearing trees, bush and vegetation from the site where improvements are intended to be made. Earthwork grading will be performed to level the site, build embankments, excavate ditches and slope/contour the site.

Site Improvements: includes installation of concrete pads & walks, asphalt paving, gravel surfacing, concrete curb & gutter, landscaping, topsoil, seeding, turf establishment, gates, and interpretive signs.

Building and Structures: includes kiosks, sign pedestals and porta-poddy enclosure.

Electrical Systems: includes electrical power supply, wiring, security lights and other lighting.

**Explanation of Use of Classified Staff:** N/A

**Total Number of Full-time Equivalent (FTE) Directly Funded with this ENRTF Appropriation:** N/A

Enter Total Estimated Personnel Hours for entire duration of project:	Divide total personnel hours by 2,080 hours in 1 yr = TOTAL FTE:
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**Total Number of Full-time Equivalent (FTE) Estimated to Be Funded through Contracts with this ENRTF Appropriation:**

Enter Total Estimated Contract Personnel Hours for entire duration of project: 11,220	Divide total contract hours by 2,080 hours in 1 yr = TOTAL FTE: 5.4
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**VI. PROJECT PARTNERS:**

**A. Partners outside of project manager’s organization receiving ENRTF funding:** None

**B. Partners outside of project manager’s organization NOT receiving ENRTF funding:** None

**VII. LONG-TERM- IMPLEMENTATION AND FUNDING:**

The project will be implemented when the trailhead is open for public use. No further funding is needed after completion of the project as the project will fulfill its intended purpose. There will be no findings, results or products developed by the project.

**VIII. REPORTING REQUIREMENTS:**

- Project status update reports will be submitted March 1 and September 1 each year of the project
- A final report and associated products will be submitted between June 30, 2023 and July 15, 2023

**IX. SEE ADDITIONAL WORK PLAN COMPONENTS:**

- A. Budget Spreadsheet**
- B. Visual Component or Map**
- C. Research Addendum**

**Attachment A:**

**Environment and Natural Resources Trust Fund**

**M.L. 2019 Budget Spreadsheet**

**Legal Citation:** ML2019, 1st Special Session, Chp. 4, Art. 2, Sec. 2, Subd. 9(q)

**Project Manager:** Robert Manzoline

**Project Title:** Historic Bruce Mine Park and Mesabi Trailhead

**Organization:** St. Louis & Lake Counties Regional Railroad Authority

**Project Budget:** \$1,000,000

**Project Length and Completion Date:** June 30, 2023

**Today's Date:** November 20, 2023



<b>ENVIRONMENT AND NATURAL RESOURCES TRUST FUND BUDGET</b>	<b>Amended Budget 11/20/23</b>	<b>Amount Spent</b>	<b>Balance</b>
<b>BUDGET ITEM</b>			
<b>Professional/Technical/Service Contracts</b>			
Professional architect and engineer for project design selected through state approved bidding process <b>ACTIVITY 2</b>	\$ 84,000	\$ 84,000	\$ -
Professional architect and engineer for construction management selected through state approved bidding process <b>ACTIVITY 2</b>	\$ 73,536	\$ 73,536	\$ -
Environmental consultant for environmental clearance documentation selected through state approved bidding process <b>ACTIVITY 1</b>	\$ 42,364	\$ 42,364	\$ -
<b>Capital Expenditures Over \$5,000 ACTIVITY 3</b>			
Contract for Selective Site Demolition & Grading selected through state approved bidding process	\$ 122,500	\$ 122,500	\$ -
Contract for Site Improvements selected through state approved bidding process	\$ 537,600	\$ 537,600	\$ -
Contract for Buildings & Structures selected through state approved bidding process	\$ 50,000	\$ 50,000	\$ -
Contract for Electrical Systems selected through state approved bidding process	\$ 90,000	\$ 90,000	\$ -
<b>Other</b>			
<b>COLUMN TOTAL</b>	<b>\$ 1,000,000</b>	<b>\$1,000,000</b>	<b>\$ -</b>

<b>OTHER FUNDS CONTRIBUTED TO THE PROJECT</b>	<b>Status (secured or pending)</b>	<b>Budget</b>	<b>Spent</b>	<b>Balance</b>
<b>Non-State:</b>				
<b>State: M.L. 2021, First Special Session, Chp. 6, Art. 1, Sec. 3, Subd. 5(m): to be used after ENRTF 2019 9q</b>		\$ 400,000	\$ 400,000	\$ -
<b>In kind:</b>				

<b>PAST AND CURRENT ENRTF APPROPRIATIONS</b>	<b>Amount legally obligated but not yet spent</b>	<b>Budget</b>	<b>Spent</b>	<b>Balance</b>
<b>Current appropriation:</b>		\$ -	\$ -	
M.L. 2014, Chp. 226, Sec. 2, Subd. 07c		\$ 1,000,000	\$1,000,000	\$ -
M.L. 2015, Chp. 76, Sec. 2, Subd. 09i		\$ 1,000,000	\$1,000,000	\$ -
M.L. 2016, Chp. 186, Sec. 2, Subd. 09e		\$ 1,200,000	\$1,200,000	\$ -
M.L. 2017, Chp. 96, Sec. 2, Subd. 09g		\$ 2,269,000	\$2,269,000	\$ -
M.L. 2018, Chp. 214, Art. 4, Sec. 2, Subd. 09b		\$ 600,000	\$ 600,000	\$ -
M.L. 2019, 1st Special Session, Chp. 4, Art. 2, Sec. 2, Subd. 09g		\$ 3,000,000	\$3,000,000	\$ -
<b>Past appropriations:</b>		\$ -	\$ -	\$ -
M.L. 1995, Chp. 220, Sec. 19, Subd. 04g2		\$ 150,000	\$ 150,000	\$ -
M.L. 1997, Chp. 216, Sec. 15, Subd. 18a		\$ 600,000	\$ 600,000	\$ -
M.L. 1999, Chp. 231, Sec. 16, Subd. 04b		\$ 1,000,000	\$1,000,000	\$ -
M.L. 2001, First Special Session, Chp. 2, Sec. 14, Subd. 05m		\$ 190,000	\$ 190,000	\$ -
M.L. 2003, Chp. 128, Art. 1, Sec. 9, Subd. 06h		\$ 380,000	\$ 380,000	\$ -
M.L. 2005, First Special Session, Chp. 1, Art. 2, Sec. 11, Subd. 06m		\$ 1,000,000	\$1,000,000	\$ -

# Historic Bruce Mine Park and Mesabi Trailhead

M.L. 2019, 1<sup>st</sup> Special Session, Chp. 4, Art. 2, Sec. 2, Subd. 9q

## Visual Element



Entrance Sign with Shovel Bucket, Paved Road



Paved Entrance Road



Paved Parking Lot with Shovel Bucket



Overall View from Parking Lot





Plaque 2



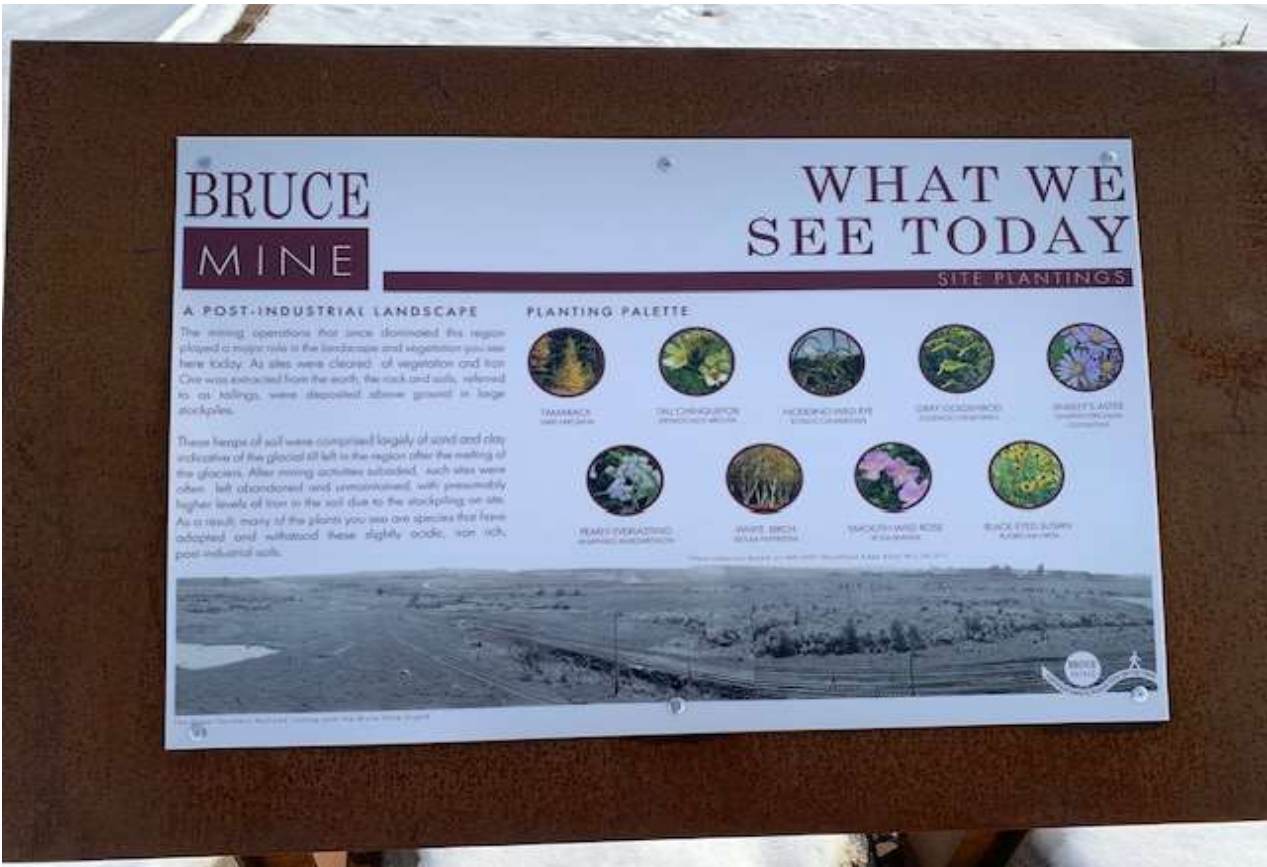
Plaque 3



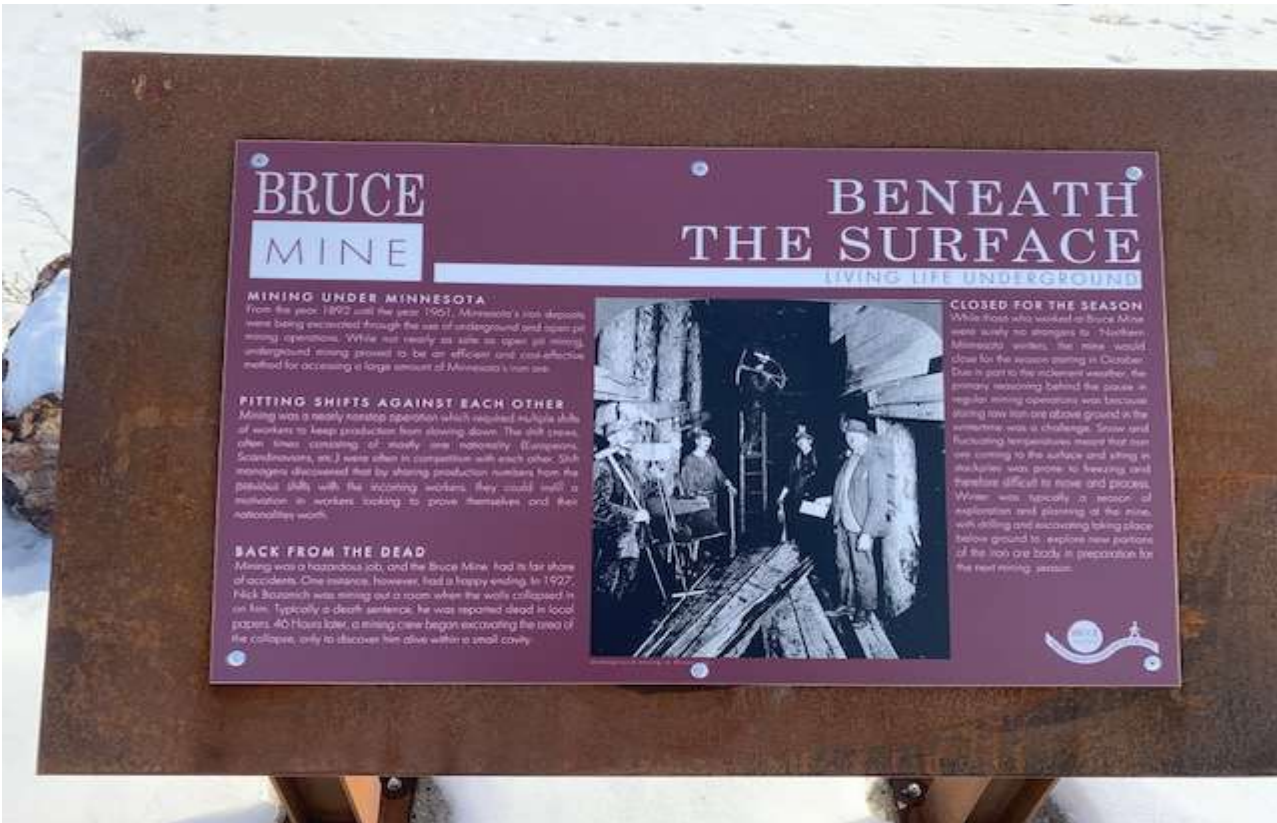
Plaque 4



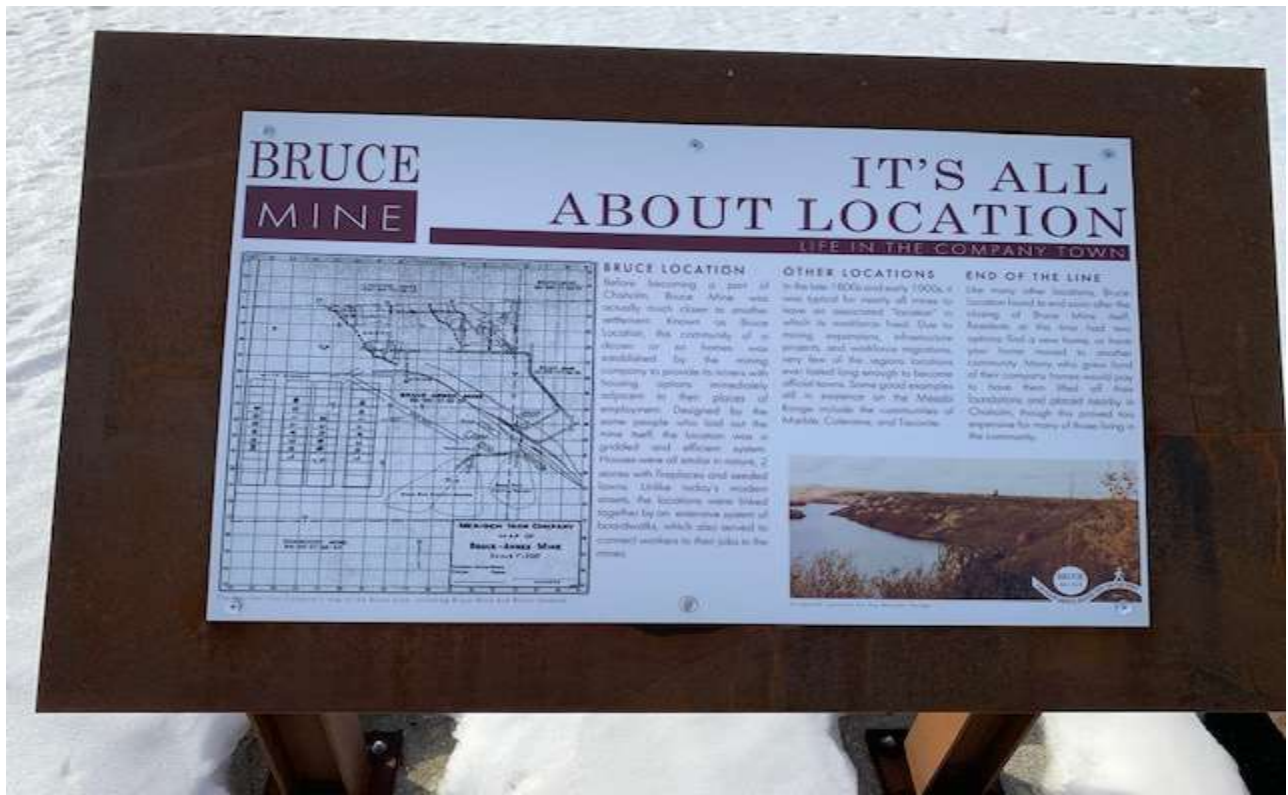
Plaque 5



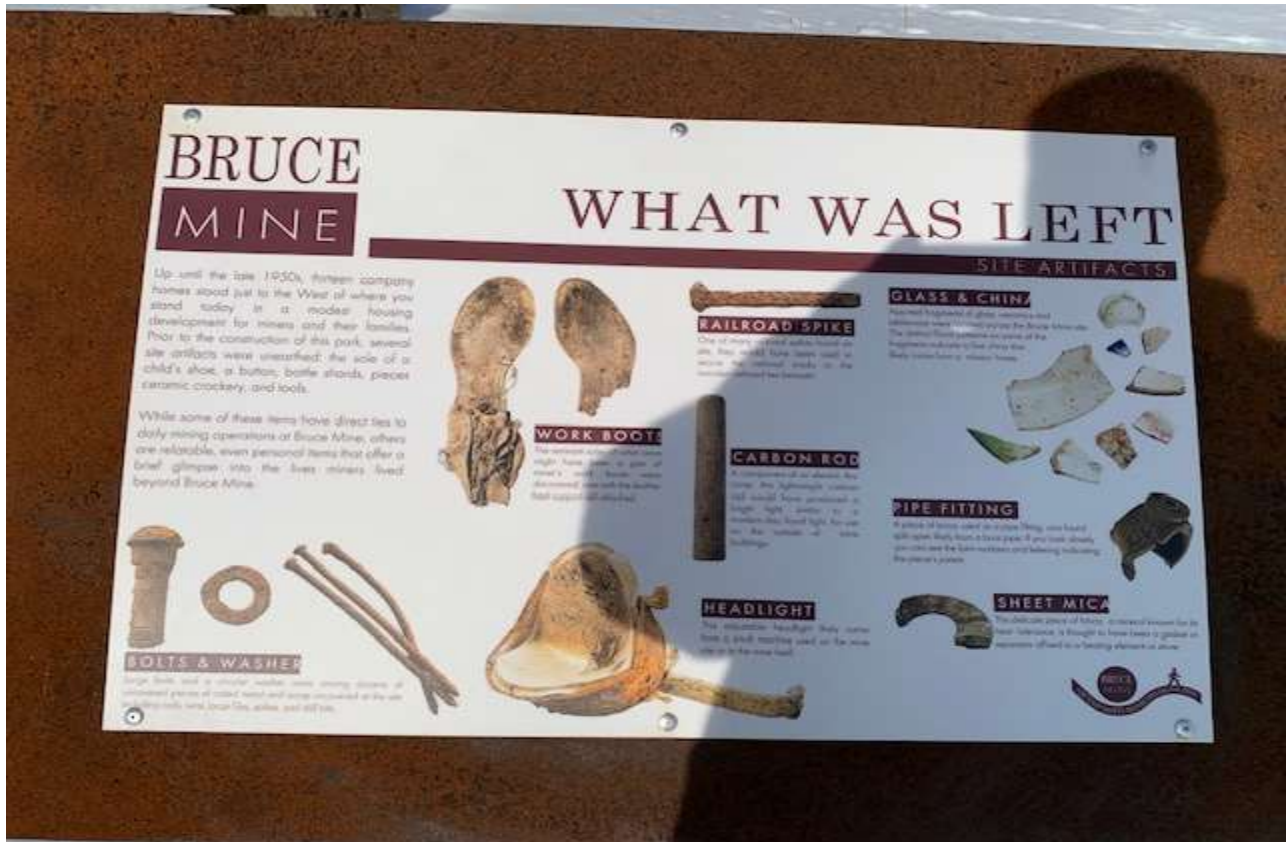
Plaque 6



Plaque 7



Plaque 8



Plaque 9



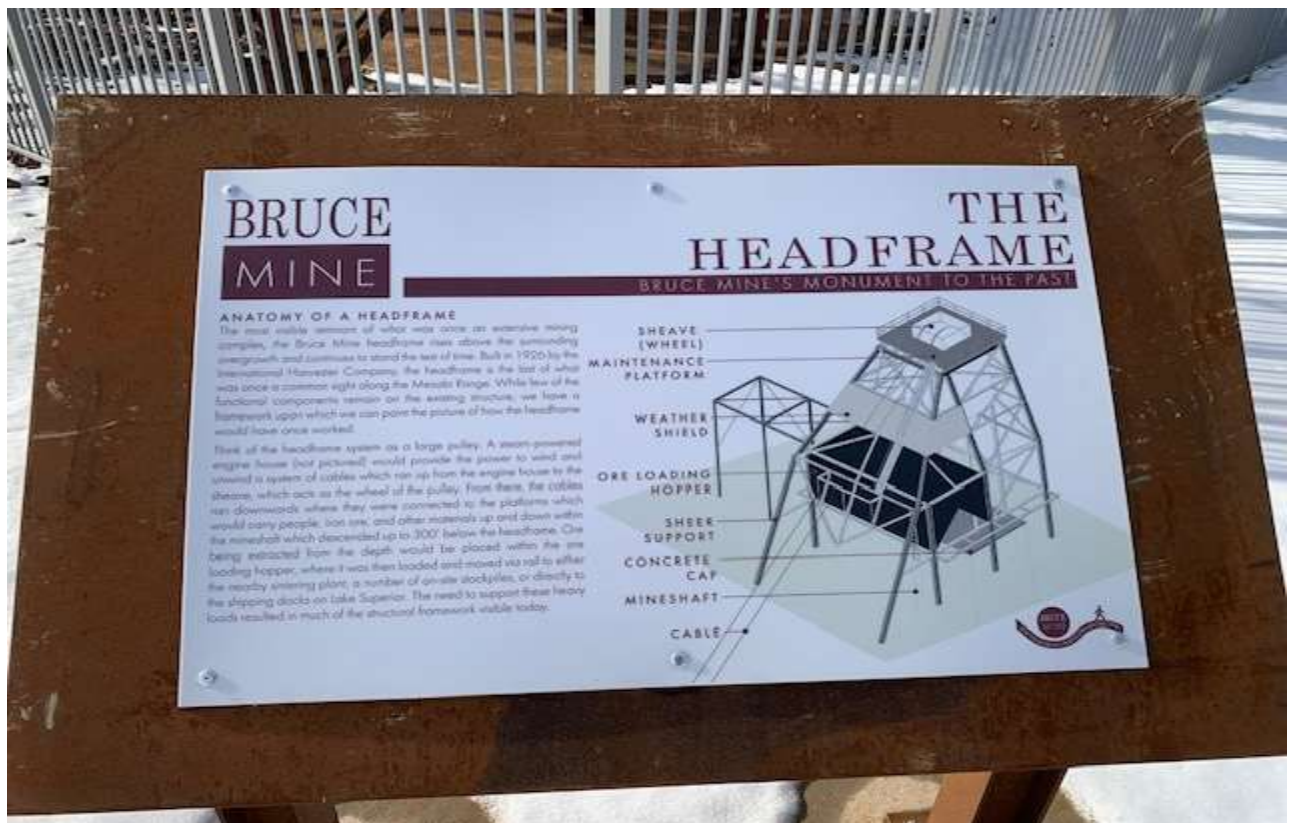
Plaque 10



Plaque 11



Plaque 12



Plaque 13



Plaque 14



Headframe with Sheave Wheels, Plaque, Railcars, Taconite Rock Base



Before: Headframe



Before: Headframe and building concrete foundation



Before: Headframe  
Before: Headframe



Before: Historic concrete foundations



Before: Concrete foundations



Before: Clearing foundations



Before: Clearing foundations



Headframe: During clearing



Foundations: During Construction



Foundations and Concrete Walkway: During Construction



Landscaping; During Construction