

Bach Steel: Bridge Moving - Historic Truss Bridge Restoration - Custom Fabrication and Erection

4140 Keller Rd - Holt, Michigan 48842

Phone: 517-581-6243 Email: nels@bachsteel.com Website: www.bachsteel.com

Bach Ornamental and Structural Steel Inc (Bach Steel) is a company that is most well-known for their work in relocating and restoring historic metal truss and plate girder bridges, as well as hot riveting in both the shop and field. Related to this work is extensive experience in pneumatic pack rust removal, heat straightening, and welding of historic metals including pad welding for section loss. Bach Steel also brings a thorough understanding of the transportation industry and its expectations to the table, with extensive experience working with various state transportation departments and many different prime contractors. Bach Steel is a DOT preapproved company for riveting and other specialty historic bridge restoration work in states that have special qualifications for this type of work including Michigan, Indiana, Pennsylvania, and Ohio, and also has performed riveting and other bridge restoration work in Texas and Arkansas.

Bach Steel also does general structural steel fabrication and erection, hand-forged (wrought) iron/steel, ornamental art/furniture, stairs and rails, manufacturing, miscellaneous structural metal work, welding and repair. Bach Steel was founded by owner Nels Raynor who has over 30 years of iron/steel fabrication and erection experience.

Bridge Projects and Other Historic Structures: Project Portfolio

Project: Shelby County Bridge #13, Buck Creek, Relocation/Restoration To Blue River Park, Shelbyville, Indiana

- Dates of Work: September 2018 – April 2019
- Brief description of the work performed: Disassembly, full in-kind restoration, and relocation/reassembly of this pin-connected Pratt metal truss bridge to park for pedestrian use. Steel work: Bach Steel was responsible for repair of existing steel, and riveting of replacement/replicated sections, and heat straightening of bent members. The project had limited contingency funds available, so Bach Steel worked with the project Engineer to develop in-kind repair procedures for unanticipated repairs that addressed the problems but also minimized the cost of the work. Bach Steel was also responsible for disassembly and reassembly of truss.
- Name of the riveting and heat-straightening supervisor(s) on the project: Nels Raynor and Derek Pung.
- Bridge Owner: Shelby County, Indiana.
- Cost of Work Performed By Bach Steel: \$150,352.00



Owner Contact:
Shelby County Courthouse Annex
25 W. Polk St.
Room 206
Shelbyville, IN 46176

Phone: 317.392.6330

Prime Contractor Contact:

Earl Settles

Estimator/Project Manager

HIS Constructors, Inc.

5150 E. 65th Street, Suite B, Indianapolis, IN 46220

earl.settles@hisconstructors.com

317-284-1195 office

317-883-0739 mobile

Project: Dix Toledo Road over Allen Road and Pennsylvania Road, Wayne County, Michigan

- Dates of Work: September-October 2018
- Brief description of the work performed: Removal of pack rust from a highway overpass girder bridge. Work included pneumatic hammer removal of pack rust and closing the gap between plates.
- Name of the pack rust removal supervisor(s) on the project: Nels Raynor, Derek Pung, and Lee Pung.
- Bridge Owner: Wayne County, Michigan.
- Cost of Work Performed By Bach Steel: \$83,833.20



Owner Contact:

Wayne County Roads Division

29900 Goddard Rd, Detroit, MI 48242

Phone: (734) 955-9920

Prime Contractor Contact:

C.A. Hull Co., Inc.

8177 Goldie Road

Walled Lake, MI 48390

810.217.0453 Mobile

248.694.8030 Direct Office

(248) 363-3813 General Office

jreed@cahull.com

www.cahull.com

Project: Amtrak Railroad Bridge over St. Joseph River, Niles Michigan

- Dates of Work: December 2017.
- Brief description of the work performed: Misc. Installation of rivets on a historic Baltimore truss railroad bridge serving an active Amtrak railroad line. Work had to be completed in a manner so as not to disrupt traffic on the active railroad bridge.
- Name of the riveting supervisor(s) on the project: Nels Raynor, Derek Pung.
- Bridge Owner: Amtrak
- Cost of Work Performed By Bach Steel: \$13,250.00



Owner Contact:

National Railroad Passenger Corporation

AMTRAK
500 W. Jackson Blvd.
Chicago, IL 60661

Prime Contractor Contact:

Russ Benning
Project Manager
630-277-6243
russbenning@icceo.com
Illinois Constructors Corporation
39W866 Fabyan Pkwy
Elburn, IL 60119

Project: McIntyre (Paper Mill) Bridge

- Dates of work: January 2016 – July 2018
- This unique project involved the complete restoration of a rare historic cast and wrought iron bowstring truss bridge that collapsed into a river in Iowa and was severely damaged. The bridge was restored by Bach Steel and installed on a trail at Auburn Heights Preserve in Delaware. Work included extensive heat straightening and spliced repairs of the top chord arch, and complete replication (with slight enlargement for strength) of the riveted vertical members, as well as additional repairs and replications throughout.
- Name of the riveting and heat straightening supervisor(s) on the project: Nels Raynor and Derek Pung.
- Bridge Owner: Delaware Division of Parks and Recreation.
- Cost of Work Performed By Bach Steel: \$231,656.00



Owner Contact:
Delaware Division of Parks and Recreation
Planning Preservation and Development Section
Matthew P. Chesser
(302) 739-9235
Matthew.Chesser@state.de.us

Project: Repairs to Historic NM-395 Lincoln County Bridge, New Mexico

- Dates of work: October 2017
- Brief description of the work performed: Heat straightening of vertical members, portal bracing, and sway bracing of historic through truss damaged by over-height truck. Bach Steel completed shop riveting of replica lower sway and portal bracing beams. This was followed by field riveting of the replica beams in place onto the bridge, with heat straightening also being completed to correct members to remain in place. This project was completed (including painting work by the Prime Contractor) in the 30 day period as required by contract.
- Name of the riveting and heat straightening supervisor(s) on the project: Nels Raynor and Derek Pung.
- Bridge Owner: New Mexico Department of Transportation.
- Cost of Work Performed By Bach Steel: \$134,875.00



Owner Contact:

New Mexico Department of Transportation
120 Cerrillos Road, Santa Fe, NM, 87504-1149
(505) 827-5100

Prime Contractor Contact:

TMI Coatings, Inc. Arizona Branch
Benjamin Nicholson
bnicholson@tmicoatings.com
P: (651) 452-6100
C: (952) 405-0743

**Project: Relocation and Restoration of Historic Springfield Bridge,
Conway, Arkansas**

- Dates of work: November 2016 – August 2017
- Brief description of the work performed: This project included the removal of this abandoned (and leaning) 1870s iron bowstring bridge, which required removal of remaining timber deck, and installation of temporary bracing to prepare for its removal with cranes (cranes by others). This was followed by the nondestructive disassembly of the bridge (with match-marking of parts), and in-kind restoration of the bridge, including heat straightening of lower chord eyebars, vertical member rods, sway bracing tubes, and diagonal member rods. Bach Steel also fabricated simulation riveted caissons and installed these along with the load-bearing concrete substructure (also by Bach). This to be followed by reassembly and installation at the new park location. This project also involved fabrication and installation of replica riveted railing by Bach, as well as deck installation by Bach.
- Name of the riveting and heat-straightening supervisor(s) on the project: Nels Raynor and Derek Pung.
- Bridge Owner: City of Conway, Arkansas
- Cost of Work Performed By Bach Steel: \$291,460.00



Owner Contact:

Jack Bell,
Chief of Staff
Conway City Hall
1201 Oak Street
Conway, AR 72032
Phone: (501) 450-6100
jack.bell@cityofconway.org

Project: Repairs to Historic US-23 Bascule Plate Girder Bridge, Cheboygan, Michigan

- Dates of work: November 2016 – February 2017
- Brief description of the work performed: Bach Steel completed shop riveting of replica sidewalk cantilever brackets. This to be followed by field riveting of the replica brackets in place onto the existing bridge girders. This project also involves field riveting on the approach spans, which is a particularly challenging aspect of this project due to the limited space for personnel and equipment in areas being repaired.
- Name of the riveting supervisor(s) on the project: Nels Raynor and Derek Pung.
- Bridge Owner: Michigan Department of Transportation.
- Cost of Work Performed By Bach Steel: \$96,480.65



Owner Contact:

Benjamin J. Gowell, P.E.
Construction Engineer
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(989) 731-5090

Secondary MDOT Contact:

Lloyd Baldwin
Historian, Environmental Section
E-Mail: baldwinl3@michigan.gov
Phone: 517-241-2702

Prime Contractor Contact:

Anlaan Corporation
P.O. Box 599
Grand Haven, MI 49417
Phone: 616.846.8442 ext. 134
Derrick Arens
derrickarens@anlaan.com
www.anlaan.com

Project: Repairs to Historic US-31 Bascule Plate Girder Bridge, Charlevoix, Michigan

- Dates of work: January 20 - 30 2017
- Brief description of the work performed: This project involved rehabilitation of approach spans and sidewalks of a historic riveted steel bascule bridge. This project involved field riveting and in-kind restoration by Bach as part of a repair project to take place during the winter when the operable bascule bridge does not operate for boats. Bach is responsible for field removal of existing rivets and installation of new rivets as part of floorbeam repairs, and as part of a replacement of the machinery room enclosure.
- Name of the riveting supervisor(s) on the project: Nels Raynor and Derek Pung.
- Bridge Owner: Michigan Department of Transportation.
- Cost of Work Performed By Bach Steel: \$44,091.00

Owner Contact:

Benjamin J. Gowell, P.E.
Construction Engineer

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Derrick Arens
derrickarens@anlaan.com
www.anlaan.com

Project: SR-1029 Over Tunkhannock Creek Bridge Restoration and Relocation, Wyoming County, Pennsylvania

- Dates of Work: November 2015 – April 2018
- Brief description of the work performed: Full in-kind restoration of this rare design lenticular metal truss bridge and relocation to park for pedestrian use. Steel work: Bach Steel was responsible for repair of existing steel (including pack rust removal), and riveting of replacement/replicated sections including replicating new riveted bottom edge bracing and vertical end posts. Bach Steel also responsible for disassembly and reassembly of truss.
- Name of the riveting supervisor(s) on the project: Nels Raynor and Derek Pung
- Bridge Owner: Pennsylvania Department of Transportation
- <http://bachsteel.com/project-gallery/project-gallery-historic-bridge-restoration-pierceville-bridge/>
- Cost of Work Performed By Bach Steel: \$316,114.00



Owner Contact:
Ryan Vitaletti
Project Engineer/Inspector
rvitaletti@pa.gov
PennDOT District 4-0
55 Keystone Industrial Park
Dunmore PA 18512
Main Number: 570-963-4061

Secondary PennDOT Contact:
Kara H. Russell | Historic Preservation Supervisor
PA Department of Transportation
Bureau of Project Delivery
Highway Delivery Division

Environmental Policy and Development Section
P.O. Box 3790 | Harrisburg, PA 17105-3790
Phone: 717.705.1484 | Fax: 717.772.0834
krussell@pa.gov
www.dot.state.pa.us

Project Consulting Engineer Contact:
Brandon J. Newpher E.I.
Structural Designer
McCormick Taylor
office 412-922-68880
cell 814-558-8284
bjnewpher@mccormicktaylor.com

Project: M-86 Bridge Relocation and Restoration, St. Joseph and Cass Counties

- Dates of Work: August 2016 – August 2018 (Completed In 2 Phases)
- Brief description of the work performed: Bach Steel was responsible for the match-marking and non-destructive disassembly of this two lane rivet-connected pony truss bridge of heavy construction. Bach is then responsible for completing in-kind restoration/repair (including hot riveting and pack rust removal) to the existing steel members, followed by reassembly of the bridge at its new location on a county road in Cass County.
- Name of the riveting supervisor(s) on the project: Nels Raynor and Derek Pung.
- Cost of Work Performed By Bach Steel: \$305,156.00
- Bridge Owner: Michigan Department of Transportation and Cass County Road Commission.

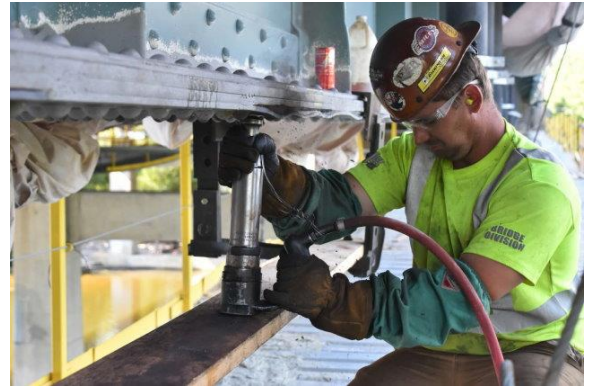


Owner Contact:
Lloyd Baldwin
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Michigan Department of Transportation
E-Mail: baldwinl3@michigan.gov
Phone: 517-241-2702

Prime Contractor Contact:
Todd M. Schrader
President
Hardman Construction
todd@hardmanconstruction.com
242 South Brye Road
Ludington, MI 49431-9362
Phone: (231) 845-1236

Project: M-14 Huron River Plate Girder Bridge Repairs, Ann Arbor, Michigan

- Dates of Work: July 2016 - October 2016
- Brief description of the work performed: This project involved removal of pack rust and straightening of affected steel on this bridge which has fracture critical details and remained open to traffic during the pack rust removal process. The repair areas were primarily the bottom flanges of the plate girders. Doing this work properly involves careful heating of the steel with close monitoring of the temperature of the steel throughout the heating process to insure the integrity of the steel is not compromised. Working with MDOT, Bach Steel developed a procedure to ensure this work could safely be performed with the bridge open to traffic.
- Name of the supervisor(s) on the project: Derek Pung and Lee Pung.
- Bridge Owner: Michigan Department of Transportation.
- <http://bachsteel.com/projects/m14huronriver.pdf>
- Cost of Work Performed By Bach Steel: \$289,422.00



Owner Contact:

Biniam K. Aregawi
MDOT-Design Division, Bridge Section
Van Wagoner Building
425 West Ottawa Street
PO Box 30050 Lansing, Michigan 48909
517.373.0628

Prime Contractor Contact:

C.A. Hull Co., Inc.
8177 Goldie Road
Walled Lake, MI 48390
810.217.0453 Mobile
248.694.8030 Direct Office
(248) 363-3813 General Office
jreed@cahull.com
www.cahull.com

Project: Rehabilitation of Historic M-72 Ausable River Bridge, Grayling, Michigan

- Dates of work: March 2016 – May 2016
- Brief description of the work performed: In-kind restoration of a historic riveted steel bridge. Bach Steel completed shop riveting of replica sidewalk cantilever brackets. This was followed by field riveting of the replica brackets in place on the bridge. Repair of existing steel included removal and replacement of selected abutment rivets, as well as minor pack rust removal.
- Name of the supervisor(s) on the project: Nels Raynor and Derek Pung.
- Bridge Owner: Michigan Department of Transportation
- Cost of Work Performed By Bach Steel: \$45,200.00



Owner Contact:
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(989) 731-5090

Secondary MDOT Contact:
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Historian, Environmental Section
E-Mail: baldwinl3@michigan.gov
Phone: 517-241-2702

Prime Contractor Contact:
Anlaan Corporation
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Grand Haven, MI 49417
Phone: 616.846.8442 ext. 134
Derrick Arens
derrickarens@anlaan.com
www.anlaan.com

Project: Restoration of the St. Joseph Lights, St. Joseph, Michigan

- Dates of work: August 2015 – March 2016
- Brief description of the work performed: In-kind restoration of the historic steel lighthouse, including pack rust removal and replication of partial sections of elevated catwalk for St. Joseph Lighthouses. Hot riveting used throughout project both in the shop and in the field. Heat straightening as needed to correct damaged steel, particularly on the riveted steel legs supporting the elevated catwalks where impact damage existed. Work included replication of riveted steel doors for lighthouses and miscellaneous repair and replication work for lighthouses.
- Name of the supervisor(s) on the project: Nels Raynor (shop) and Derek Pung (field).
- Bridge Owner: City of St. Joseph, Michigan
- <http://bachsteel.com/project-gallery/project-gallery-historic-lighthouse-restoration-st-joseph-lights-and-catwalk/>
- Cost of Work Performed By Bach Steel: \$296,398.00



Owner Contact:
City of St. Joseph
City Clerk/Finance Director: Sara McCallum
Address: 700 Broad Street
Phone: (269) 983-6325

Prime Contractor Contact:
Bob Ziman
Project Manager
Mihm Enterprises, Inc.
Office: 269-751-5522

info@mihmenterprises.com

Project: CR-125 (Providence Road) over Little Brazos River, Robertson County, Texas

- Dates of work: 2012-2014
- Brief description of the work performed: Full in-kind repair and restoration of this historic metal truss bridge for continued vehicular use. Steel work: Bach Steel was responsible for repair of existing steel including heat straightening including repair of moderate impact damage to a vertical member of the truss, riveting of replacement/replicated sections including base of end posts.
- Name of the riveting supervisor(s) on the project: Nels Raynor
- Bridge Owner: Robertson County, Texas, Texas Department of Transportation Oversight.
- <http://bachsteel.com/project-gallery/project-gallery-historic-bridge-restoration-providence-road-bridge/>
- Cost of Work Performed By Bach Steel: \$125,000.00



Owner Contact:

Robertson County Texas

Judge Charles L. Ellison

P. O. Box 427

Franklin, TX 77856

Phone: 979--828-3542

(CONTRACT THROUGH TXDOT):

125 East 11th St.

Austin, TX 78701

(512) 463-8588

Prime Contractor Contact:

Scott Miller

Vice President

Davis Construction, Inc.

5236 Dumond Court Suite A

Lansing, MI 48917

(517) 322-3800 - Office

(517) 712-1160 – Cell

Scott@davisconstruction.us

http://www.davisconstruction.us/company_directory.htm

**Project: CR-120 (Wildcat Bridge Road) over Little Brazos River,
Robertson County, Texas**

- Dates of work: 2012-2014
- Brief description of the work performed: Full in-kind repair and restoration of this historic metal truss bridge for continued vehicular use. Steel work: Bach Steel was responsible for repair of existing steel, including heat straightening of truss members and bracing as needed, riveting of replacement/replicated sections including base of end posts.
- Name of the riveting supervisor(s) on the project: Nels Raynor
- Bridge Owner: Robertson County, Texas, Texas Department of Transportation Oversight.
- <http://bachsteel.com/project-gallery/project-gallery-historic-bridge-restoration-wildcat-bridge/>
- Cost of Work Performed By Bach Steel: \$175,000.00



Owner Contact:
Robertson County Texas
Judge Charles L. Ellison
P. O. Box 427
Franklin, TX 77856
Phone: 979--828-3542
(CONTRACT THROUGH TXDOT):
125 East 11th St.
Austin, TX 78701
(512) 463-8588

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5236 Dumond Court Suite A
Lansing, MI 48917
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(517) 712-1160 – Cell
Scott@davisconstruction.us
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Bunker Mill Bridge, Kalona, Iowa

- Dates of work: 2013-2015
- Brief description of the work performed: Repair and in-kind restoration of this historic metal truss bridge for pedestrian use. Work included heat straightening as needed, pack rust removal as needed, and a new steel deck stringer flooring system for the bridge.
- Name of the riveting supervisor(s) on the project: Nels Raynor
- Bridge Owner: Julie Bowers, Workin' Bridges (North Skunk River Greenbelt Association)



Project: BR 1102(020) CR Piano Bridge Road, Fayette County, Yoakum District, Texas

- Year the work was completed: 2012
- Brief description of the work performed: Full in-kind repair and restoration of this historic metal truss bridge for continued vehicular use. Bach Steel was responsible for repair of existing steel, including heat straightening, hot riveting as needed for fasteners, pack rust removal as needed. Heat straightening work included the heavily impact-damaged portal bracing, bent bottom chord eyebars (a fracture critical member), and impact damaged lattice railing.
- Name of the riveting supervisor(s) on the project: Nels Raynor
- Bridge Owner: Fayette County, Texas, Texas Department of Transportation Oversight.
- <http://bachsteel.com/project-gallery/project-gallery-historic-bridge-restoration-piano-bridge/>
- Cost of Work Performed By Bach Steel: \$185,000.00



Owner Contact:

Fayette County
Judge Ed Janecka
151 North Washington St., Room 301
La Grange, TX 78945
Office Phone: (979) 968-6469
E-mail: ed.janecka@co.fayette.tx.us (CONTRACT THROUGH TXDOT):
125 East 11th St.
Austin, TX 78701
(512) 463-8588

Prime Contractor Contact:

Scott Miller
Vice President
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5236 Dumond Court Suite A
Lansing, MI 48917
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Scott@davisconstruction.us
http://www.davisconstruction.us/company_directory.htm

Project: State Street over Cass River

- Year the work was completed: 2010
- Brief description of the work performed: Extensive restoration of trusses in a shop setting. Trusses disassembled and restored in a shop setting. Some of the more noteworthy work requiring riveting was installation of new cover plate to existing top chord and end posts using riveting, and splicing replicated (riveted) pin plates for vertical members.
- Name of the riveting supervisor(s) on the project: Nels Raynor
- Bridge Owner: Bridgeport Township in Saginaw County. Michigan Department of Transportation Oversight.



- <http://bachsteel.com/project-gallery/project-gallery-historic-bridge-restoration-bridgeport-bridge/>
- Cost of Work Performed By Bach Steel: \$265,000.00

Owner Contact:

BRIDGEPORT CHARTER TOWNSHIP

6206 Dixie Hwy.

Bridgeport, MI 48722

989-777-0940

(CONTRACT THROUGH MDOT):

Michigan Department of Transportation

State Transportation Building

425 W. Ottawa St.

P.O. Box 30050

Lansing, MI 48909

517-373-2090

Prime Contractor Contact:

Scott Miller

Vice President

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Scott@davisconstruction.us

http://www.davisconstruction.us/company_directory.htm

Project: Sterling Road Bridge, Morenci, Michigan

- Year the work was completed: 2004
- Brief description of the work performed: Complete restoration of the truss parts for this bridge which was relocated to Morenci, Michigan for pedestrian use. The extensive deterioration on the bridge required hot metal riveting, and replication of deteriorated sections of truss members, and welding plate to address areas of section loss. Eyebars with section loss were pad welded to repair them. Bach also did selected repairs to the existing floor beams and installed new rivets where needed.
- Name of the riveting supervisor(s) on the project: Nels Raynor
- Bridge Owner: Michigan Department of Transportation Oversight for City of Morenci.
- <http://bachsteel.com/project-gallery/project-gallery-historic-bridge-restoration-sterling-road-bridge/>



Kent Street Bridge in Portland, Michigan

- Year the work was completed: 2004
- Brief description of the work performed:
Restored, reassembled, and reinstalled this large 220 foot through truss span in a new location over the Grand River for pedestrian use on Portland's trail system. The restored bridge is pictured to the left. Due to the size of the bridge and restrictions on the type of work that could be performed in the water, a special tramway system was designed to erect and deploy the bridge over the river in sections.
- Bridge Owner: City of Portland
- <http://bachsteel.com/project-gallery/project-gallery-historic-bridge-restoration-kent-street-bridge/>



Information and details on additional projects available upon request, or at our website
www.bachsteel.com

Bach Steel General Project References

We also encourage you to contact Bach Steel's references below to discuss relevant projects and experience our firm has working with historic metal bridges. Our references are as follows:

Brion Klopff, Michigan Department of Transportation (Reference For Michigan Projects)

Bridge Operations / Steel Fabrication Specialist

(517) 204-6701

klopfb@michigan.gov

Vern Mesler (Reference for Michigan Projects)

VJM Metal Craftsman, Former Project Manager for Historic Bridge Park, Calhoun County, MI

www.historicbridgerestoration.com

Phone: 517-614-9868

Email: meslerv@gmail.com

Jim Reed (Reference for Michigan Projects)

CA Hull

Phone: 810.217.0453 Mobile

Office Phone: 248.694.8030

Email: jreed@cahull.com

Scott Miller, Vice President, Davis Construction (Reference for Michigan and Texas Projects)

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scott@davisconstruction.us

<http://www.davisconstruction.us/>

Letter of Recommendation

Dec 7, 2010

Subject: Letter of Recommendation

To whom it may concern:

I have worked with Nels Raynor on numerous Michigan Department of Transportation projects. He has shown that he has an excellent working knowledge of structural steel, particularly in the preservation of historic bridges. He has disassembled, repaired, and reassembled multiple historic bridges for the Department of Transportation with a superb quality of workmanship which is hard to find. He is a craftsman in the sense of having the ability to restore antique components with modern equipment meeting today's standards and specifications. He has an unlimited all position welding qualification with the Michigan Department of Transportation and has shown an expertise in all the tools required for this type of construction including torch and saw cutting, rivet removal and installation, and repair of section loss. He has my recommendation for any type of structural steel work which you may require.

If you have any questions feel free to contact me at the number listed below or by E-mail at: klopf@michigan.gov
My working title is "Steel Fabrication Specialist".

Thank you;
Brion Klopf
Bridge Operations
(517) 204-6701

Contact Information

Nels Raynor, Owner and President

Address:

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