



MONROE COUNTY  
**R O A D**  
COMMISSION

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840 S. Telegraph Road • Monroe, Michigan 48161 • Phone: (734) 240-5102 • Fax: (734) 240-5101

**PROPOSAL**

**FOR**

**KNAB ROAD BRIDGE AT OTTER CREEK  
TEMPORARY BRIDGE REPAIR**

**LASALLE TOWNSHIP  
MONROE COUNTY, MICHIGAN**

**BID OPENING:**

Tuesday, August 8, 2017 at 10:00 a.m.

**BOARD OF COUNTY ROAD COMMISSIONERS  
OF THE COUNTY OF MONROE**

Paul Iacoangeli, Chairman  
Dan Minton, Vice Chairman  
Stephen J. Pace, Member  
Charles A. Londo, Member  
Greg W. Stewart, Member

**MONROE COUNTY ROAD COMMISSION  
INVITATION TO BID**

Sealed bids will be received by the Board of County Road Commissioners of the County of Monroe until **10:00 a.m.** local time on **Tuesday, August 8, 2017** at their office located at 840 South Telegraph Road, Monroe, Michigan 48161 for the **Knab Road Bridge at Otter Creek Temporary Bridge Repair** project in LaSalle Township, Monroe County, Michigan. Significant bid items of work and approximate quantities are as follows:

Support, Temp, Left In Place – 1 Lump Sum

Bids will be publicly opened and read aloud by the Bid Committee at 10:00 a.m. Proposals may be downloaded from the Road Commission's website at [www.mcrc-mi.org/bids.html](http://www.mcrc-mi.org/bids.html) .

BOARD OF COUNTY ROAD COMMISSIONERS  
OF THE COUNTY OF MONROE, MICHIGAN

**MONROE COUNTY ROAD COMMISSION  
PROPOSAL  
KNAB ROAD BRIDGE AT OTTER CREEK  
TEMPORARY BRIDGE REPAIR**

TO: The Board of County Road Commissioners of the County of Monroe, Michigan

FOR: Fabricate, furnish, and install temporary supports to be left in place for the Knab Road Bridge at Otter Creek, LaSalle Township, Monroe County, Michigan.

Ladies and Gentlemen:

The undersigned bidder hereby affirms that:

1. The proposal is in all respects fair and without any collusion or fraud.
2. The undersigned have examined the site of the proposed project and have made a personal investigation and estimate of quantities.
3. The undersigned will contract to furnish all labor, equipment, tools, material and traffic control devices necessary at the unit prices stated on the attached bid forms and to complete the work in the time specified to the satisfaction of the Board of County Road Commissioners of the County of Monroe, Michigan.

Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State, ZIP: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
By: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Notes:

1. If the bidder is a partnership, each member must sign the proposal.
2. Corporations must execute the proposal by duly authorized officers in accordance with the Articles of Incorporation.

INSTRUCTIONS TO BIDDERS  
and  
GENERAL CONDITIONS

The Michigan Department of Transportation 2012 Standard Specifications for Construction are incorporated as part of these bidding documents and shall govern except as provided in the Invitation to Bid, Instructions to Bidders and General Conditions, and Proposal. Reference to the Department or Commission in the Michigan Department of Transportation 2012 Standard Specifications for Construction shall for this project mean the Board of County Road Commissioners of the County of Monroe, hereinafter referred to as "Board", unless otherwise specified.

OWNER

The owner of the project is the Board of County Road Commissioners of the County of Monroe, also referred to as the "Board."

ENGINEER

The Engineer is the County Highway Engineer or the individual assigned by the County Highway Engineer to be in charge of the Contract. The person assigned as the Engineer may be an employee of the Board, a consultant or an outside contractor hired by the Board.

BIDDER

The Bidder is one who submits a signed bid with the required documentation directly to the Board at the time and place specified.

BID FORMS

Sealed proposals must be submitted on the bid forms furnished by the Board. The proposal shall be submitted in its entirety (pages 1 through 11) with no modifications or changes except as authorized by an addendum and with no pages removed. All proposals must be filled out in ink or typewritten and shall be legibly signed, giving the complete name and address of the Bidder.

All bids must be in a sealed envelope and clearly marked "**Knab Road Bridge Temporary Repairs**".

BIDDER'S SURETY

The proposal must be accompanied by a cashier's check, certified check or a bid bond made payable to the Board of County Road Commissioners of Monroe County, Michigan in the sum of five percent (5%) of the amount of the bid. Upon awarding and signing of a contract, or in the event of bid rejection, such bid surety will be returned to the Bidder. Bids may be held for a period of forty (40) days.

INTERPRETATION AND ADDENDA

All questions about the meaning or intent of the Bidding Documents are to be directed to the Engineer. Interpretation or clarification considered necessary by the Engineer to such questions will be issued by Addenda delivered to all parties recorded by the Engineer as having received the Bidding Documents. Questions received less than seven days prior to the date for opening the bids may not be answered. Only questions answered by formal written Addenda are binding. Oral and other interpretations or clarifications will be without legal effect.

OPENING OF BIDS

Bids will be received by the Board at 840 S. Telegraph Road, Monroe, Michigan, 48161 until **10:00 a.m.** local time on **Tuesday, August 8, 2017** at which time they will be publicly opened and read aloud.

REJECTION OF BIDS

The Board reserves the right to reject any or all bids, including without limitation the right to reject any or all nonconforming, nonresponsive, unbalanced, or conditional bids and to reject the bid of any Bidder if the Board believes that it would not be in the best interest of the project to make an award to that Bidder, whether because the bid is not responsive or if the Bidder is unqualified or of doubtful financial ability or fails to meet any pertinent standards or criteria established by the Board. The Board also reserves the right to waive all informalities in any bid should it be deemed in the best interest of the Road Commission

to do so. Discrepancies between the multiplication of units of work and the unit prices will be resolved in favor of the unit price. Discrepancies between the indicated sum of any column of figures and the correct sum will be resolved in favor of the correct sum. Discrepancies between words and figure will be resolved in favor of words.

#### TITLE VI ASSURANCE

The Monroe County Road Commission, in accordance with Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 USC 2000d to 2000d-4) and Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, hereby notifies all bidders that it assures that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, gender, age, or disability in consideration for an award.

#### PROHIBITION OF DISCRIMINATION

In accordance with Act No. 453, Public Acts of 1976, the Contractor and subcontractors hereby agree not to discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of race, color, religion, national origin, age, sex, height, weight, or marital status. Further, in accordance with Act No. 220, Public Acts of 1976 as amended by Act No. 478, Public Acts of 1980, the Contractor and subcontractors hereby agree not to discriminate against an employee or applicant for employment tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of a disability that is unrelated to the individual's ability to perform the duties of a particular job or position. A breach of the above covenants shall be regarded as a material breach of this contract.

#### CONTRACT EXECUTION

The Bidder to whom the Contract is awarded shall, within ten (10) calendar days after notice of award, enter into a written contract with the Board and furnish proof of insurance as hereinafter specified. Failure to execute the contract or furnish satisfactory proof of insurance will be considered cause for annulment of award.

#### PERFORMANCE AND LIEN BONDS

The successful Bidder to whom the contract is awarded shall furnish two (2) surety bonds as follows:

Performance Bond - To the Board of County Road Commissioners of the County of Monroe, Michigan for the faithful fulfillment of the terms of the contract in the amount of one-hundred (100) percent of the contract amount.

Lien Bond - To the Board of County Road Commissioners of the County of Monroe, Michigan for the payment of all labor and materials used in the work in the amount of one-hundred (100) percent of the contract amount.

#### INCREASED OR DECREASED QUANTITIES

The Board reserves the right to increase or decrease quantities from those originally estimated and such changes will be paid for at the unit price bid so long as the total contract amount is not changed more than ten (10) percent. Changes in excess of that amount will be individually negotiated.

#### PROGRESS SCHEDULE

In no case shall any work be commenced prior to receipt of formal notice of award by the Board.

The low Bidder for the work covered by this proposal will be required to meet with the Board's representative to review the Contractor's proposed work schedule. The schedule for this meeting will be set within one (1) week after the low bidder is determined.

The Board's representative will arrange the time and place for the meeting.

#### TIME OF COMPLETION

All contract work shall be completed on or before **October 28, 2017**.

#### FAILURE TO COMPLETE ON TIME

Liquidated damages in the amount of **\$200** per day will be assessed for each calendar day that the work remains incomplete beyond the completion dates.

#### PAYMENTS TO CONTRACTOR

Payments will be made to the Contractor on a bi-weekly basis. The Board will make a partial payment to the Contractor on the basis of an estimate, prepared by the Engineer, of the work performed on the project during the preceding period less a five (5) percent retainer.

#### FINAL INSPECTION, ACCEPTANCE AND FINAL PAYMENT

The Engineer will make a final inspection of all work included in the contract and notify the Contractor of defects to be remedied prior to final acceptance. The Contractor is required to provide unconditional waivers of lien from all subcontractors and suppliers before preparing a final estimate. Upon satisfactory completion of the work by the Contractor, a final estimate will be prepared. Payment for all work completed and accepted, less previous payments, will be made within thirty (30) days of final acceptance.

#### DISPUTES

The County Highway Engineer's written decision on any question arising under the contract between the Board and Contractor shall be final and binding upon both the Board and the Contractor in the absence of fraud, bad faith, or abuse of discretion.

#### ARBITRATION

All claims, disputes and other matters in question between the Board and the Contractor arising out of, or relating to, the Contract Documents or the breach thereof (except for claims which have been waived by the making or acceptance of final payment) will be decided by arbitration in accordance with the Construction Industry Arbitration Rules of the American Arbitration Association then obtaining subject to the limitations of this section. This agreement so to arbitrate and any other agreement or consent to arbitrate entered into in accordance herewith will be specifically enforceable under the prevailing laws of any court having jurisdiction.

No demand for arbitration of any claim, dispute or other matter that is required to be referred to Engineer initially for decision will be made until the earlier of (a) the date on which Engineer has rendered a decision or (b) the tenth day after the parties have presented their evidence to Engineer if a written decision has not been rendered by Engineer before that date. No demand for arbitration of any such claim, dispute or other matter will be made later than thirty (30) days after the date on which Engineer has rendered a written decision in respect thereof; and the failure to demand arbitration within said thirty (30) days' period shall result in Engineer's decision being final and binding upon Board and Contractor. If Engineer renders a decision after arbitration proceedings have been initiated, such decision may be entered as evidence but will not supersede the arbitration proceedings, except where the decision is acceptable to the parties concerned. No demand for arbitration of any written decision of Engineer will be made later than ten (10) days after the party making such demand has delivered written notice of intention to appeal.

Notice of the demand for arbitration will be filed in writing with the other party to the Agreement and with the American Arbitration Association, and a copy will be sent to Engineer for information. The demand for arbitration will be made within the thirty (30) day or ten (10) day period specified above as applicable, and in all other cases within a reasonable time after the claim, dispute or other matter in question has arisen, and in no event shall any such demand be made after the date when institution of legal or equitable proceedings based on such claim, dispute or other matter in question would be barred by the applicable statute of limitations.

No arbitration arising out of or relating to the Contract Documents shall include by consolidation, joinder or in any other manner any other person or entity who is not a party of this contract unless:

- a) the inclusion of such other person or entity is necessary if complete relief is to be afforded among those who are already parties to the arbitration;
- b) such other person or entity is substantially involved in a question of law or fact which is common to those who are already parties to the arbitration and which will arise in such proceedings, and;
- c) the written consent of the other person or entity sought to be included and of Board and Contractor has been obtained for such inclusion, which consent shall make specific reference to this paragraph; but no such consent shall constitute consent to arbitration of any dispute not specifically described in such consent or to arbitration with any party not specifically identified in such consent.

Notwithstanding the above paragraph, if a claim, dispute or other matter in question between Board and Contractor involves the Work of a Subcontractor, either Board or Contractor may join such Subcontractor as a party to the arbitration between Board and Contractor hereunder. Contractor shall include in all subcontracts a specific provision whereby the Subcontractor consents to being joined in arbitration between Board and Contractor involving the Work of such Subcontractor. Nothing in this paragraph nor in the provision of such subcontract consenting to joinder shall create any claim, right or cause of action in favor of Subcontractor and against Board or Board's Consultants that does not otherwise exist.

The award rendered by the arbitrators will be final, judgment may be entered upon it in any court having jurisdiction thereof, and it will not be subject to modification or appeal.

#### ASSIGNMENT CLAUSE

The contract between the Board and the Contractor may not be assigned to a third party without the written consent of the Board.

#### TAXES

The Contractor shall include, and will be deemed to have included, in its base bid and contract price all applicable Michigan Sales and Use taxes which have been enacted into law as of the date the bid is submitted.

#### BOARD RESPONSIBILITY

The Board shall not supervise, direct or have control or authority over, nor be responsible for, the Contractor's means, methods, techniques, sequences or procedures of construction or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with laws and regulations applicable to the furnishing or performance of the work unless otherwise specified in the Special Provisions. The Board will not be responsible for the Contractor's failure to perform or furnish the work in accordance with the Contract Documents.

#### INDEMNIFICATION, DAMAGE LIABILITY AND INSURANCE

- A. Indemnification. The Contractor must hold harmless, indemnify, defend and represent the Board and its officers, agents and employees against any and all claims for bodily injury or property damage, or any other claim arising out of performance of the work on this contract. The Contractor will not be responsible for claims that result from the sole negligence or willful acts of said indemnitee.
- B. Workers' Compensation Insurance. The Contractor must carry the necessary Workers' Compensation Insurance and submit a certification that it carries Workers' Compensation to the Board.
- C. Bodily Injury and Property Damage. The Contractor must carry adequate insurance, satisfactory to the Board, to afford protection against all claims for damage to public or private property and injuries to persons arising out of performance of the work. Copies of completed certificates must be submitted to the Board.

1. General Liability, Bodily Injury and Property Damage. The Contractor must provide the following minimum limits of property damage and bodily injury liability:

Bodily Injury and Property Damage Liability:

Each Occurrence	\$1,000,000
Aggregate	\$2,000,000

2. Automobile Liability, Bodily Injury and Property Damage. The Contractor must provide the following minimum limits of property damage and bodily injury liability:

Bodily Injury Liability:

Each Person	\$500,000
Each Occurrence	\$1,000,000

Property Damage Liability:

Each Occurrence	\$1,000,000
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Combined Single Limit for Bodily Injury and Property Damage Liability:

Each Occurrence	\$2,000,000
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3. Umbrella Policy. The Contractor may meet the requirements of above minimum limits of bodily injury and property damage liability through an umbrella policy.

- D. Additional Insured. The Bodily Injury and Property Damage Policy must include the following endorsements, verbatim:

“Additional Insured: The Board of County Road Commissioners of the County of Monroe, the Monroe County Road Commission and its officers, agents and employees.”

“Provide written notice ten (10) days prior to cancellation, expiration, termination or reduction in coverage for nonpayment of the premium and written notice thirty (30) days prior to cancellation, expiration, termination or reduction in coverage for all other reasons.”

- E. Per Project Aggregate. The Bodily Injury and Property Damage Policy must be endorsed with an endorsement that provides the General Aggregate Limit to each designated construction project.
- F. Notice. The Contractor must ensure that all insurance policies and binders include an endorsement by which the insurer agrees to notify the Department in writing at least 30 days before there is a cancellation or material change in coverage. The Contractor must stop operations if any insurance is canceled or reduced, and must not resume operations until new issuance is in force.
- G. Reports. The Contractor or insurance carrier shall report to the Board any claims received, inspections made and the disposition of claims. The Board will withhold final payment release until either the Contractor pays the claim or until final disposition of the claim by the Contractor's insurance company has been received by the Board.

#### MAINTENANCE OF TRAFFIC

See the Special Provision for Maintaining Traffic attached to the proposal. All cost associated with furnishing, placing, operating, maintaining, and removing the traffic control as detailed in the Special Provision for Maintaining Traffic shall be considered included in the lump sum pay item Support, Temp, Left In Place and will not be paid for separately.

#### SPECIFICATIONS

All work not otherwise specified shall be done in accordance with the Michigan Department of Transportation 2012 Standard Specifications for Construction. Within these specifications all references to the Michigan Department of Transportation shall mean the Board.



## MATERIALS

All materials shall be in accordance with the Michigan Department of Transportation 2012 Standard Specifications for Construction except as modified herein.

## SPECIAL PROVISIONS AND NOTICES TO BIDDERS

The following special provisions and notices to bidders are attached to this proposal:

1. Progress Clause
2. Special Provision for Maintaining Traffic
3. Special Provision for Support, Temp, Left In Place
4. Log of Project
5. Notice to Bidders Utility Coordination

## ERRATA

Errata to the 2012 Standard Specifications, MDOT 12SS-001A-13

The above referenced document can be found on the Michigan Department of Transportation website at [www.michigan.gov/mdot](http://www.michigan.gov/mdot).

## UTILITY COORDINATION

For the protection of underground utilities, the contractor shall notify "Miss Dig" at 1-800-482-7171 or 811, a minimum of three working days, excluding weekends or holidays prior to excavating and otherwise fully comply with the provisions of Act 174 of 2013 and as amended. Miss Dig members will thus be routinely notified. This does not relieve the Contractor of the responsibility of notifying utility owners who may not be part of the Miss Dig system.

The Contractor shall conduct operations in such a manner as to ensure that those utilities not requiring relocation will not be disturbed.

## COMMUNICATIONS

Any questions regarding this bid shall be directed to the person listed below:

Name: Frank Westenkirchner  
Phone: 734-240-5142  
Email: [fwestenkirchner@mcrc-mi.org](mailto:fwestenkirchner@mcrc-mi.org)

**MONROE COUNTY ROAD COMMISSION  
UNIT PRICE CONTRACT  
KNAB ROAD BRIDGE AT OTTER CREEK  
TEMPORARY BRIDGE REPAIR**

TO: Board of County Road Commissioners of Monroe County, Michigan

The undersigned, having full knowledge of the site, proposal, plans and specifications for the **KNAB ROAD BRIDGE AT OTTER CREEK TEMPORARY BRIDGE REPAIR** in LaSalle Township, Monroe County, Michigan including Bidders' Addenda \_\_\_\_\_, and the conditions of these Contract Documents, hereby agrees to furnish all services, labor, materials, tools, equipment, transportation, and incidentals necessary to perform the entire Work; to complete the contract by the date specified in the Instructions to Bidders and General Provisions, according to the Proposal, Plans and Specifications; and to accept in full, compensation for all work necessary to complete the project at the unit prices named below:

<b>UNIT PRICE WORK</b>					
<b>Item Code</b>	<b>Item Description</b>	<b>Approx. Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Bid Amount</b>
7077051	Support, Temp, Left In Place	1	LSUM	\$	\$
<b>Total Bid =</b>					<b>\$</b>

Contractor Signature: \_\_\_\_\_

Printed Name and Title: \_\_\_\_\_

Quantities are not guaranteed. Final payment will be based on actual quantities.

Bidder agrees that the work will be completed and ready for final payment in accordance with the General Conditions. Work on the **KNAB ROAD BRIDGE AT OTTER CREEK TEMPORARY BRIDGE REPAIR** project is to be completed by **October 28, 2017** as detailed in the Time of Completion section above.

Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the work on time.

The following documents are attached to and made a condition of this Bid:

Required Bid Security in the form of either:

Certified Check or a Bidder's Bond in the amount of:

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

Communications concerning this Bid shall be addressed to the Bidder's representative.

Name of Representative: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, ZIP: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Fax Number: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

The terms used in this Bid, which are defined in subsection 101.03 of the Michigan Department of Transportation 2012 Standard Specifications of the Construction, have the meanings assigned to them in the Standard Specifications for Construction.

SUBMITTED on: \_\_\_\_\_, 2017

If Bidder is:

An Individual

By: \_\_\_\_\_ (SEAL)  
Individual's Name

Doing Business As: \_\_\_\_\_

Business Address: \_\_\_\_\_  
\_\_\_\_\_

Phone No: \_\_\_\_\_

A Partnership

By: \_\_\_\_\_ (SEAL)  
Firm Name  
\_\_\_\_\_  
General Partner

Business Address: \_\_\_\_\_  
\_\_\_\_\_

Phone No.: \_\_\_\_\_

A Corporation

By: \_\_\_\_\_ (Corporate SEAL)  
Corporate Seal

\_\_\_\_\_  
State of Incorporation

By: \_\_\_\_\_  
Name of Person Authorized to Sign

\_\_\_\_\_  
Title

Business Address: \_\_\_\_\_

\_\_\_\_\_

Phone No.: \_\_\_\_\_

A Joint Venture

By: \_\_\_\_\_  
Name

Business Address: \_\_\_\_\_

\_\_\_\_\_

Phone No.: \_\_\_\_\_

By: \_\_\_\_\_  
Name

Business Address: \_\_\_\_\_

\_\_\_\_\_

Phone No.: \_\_\_\_\_

(Each joint venture must sign. The manner of signing for each individual, partnership and corporation that is a party to the joint venture should be in the manner indicated above.)

**KNAB ROAD BRIDGE AT OTTER CREEK  
TEMPORARY BRIDGE REPAIR  
PROPOSAL ATTACHMENTS**

1. Progress Clause
2. Special Provision for Maintaining Traffic
3. Special Provision for Support, Temp, Left In Place
4. Log of Project
5. Notice to Bidders Utility Coordination

## PROGRESS CLAUSE

MCRC:FW

1 of 1

07-06-17

Submit a complete, detailed and signed Progress Schedule (Form 1130) to the Engineer within seven (7) calendar days of confirmation of the low bid by the Monroe County Road Commission. Review and approval of the Progress Schedule by the Engineer is required prior to award of the contract.

The Progress Schedule must include, at a minimum, the controlling work items for the completion of the project and the planned dates (or work days for a work day project) that the work items will be the controlling operations. When specified in the proposal or contract documents, the open to traffic date, the final project completion date, all interim completion dates, and any other controlling dates must be included in the Progress Schedule.

After award and prior to the start of work, the Contractor must attend a preconstruction meeting with the Engineer. The schedule for this meeting will be determined by the Engineer after submittal of the Progress Schedule. The Engineer will arrange the day, time and place for the preconstruction meeting.

The named subcontractor(s) for Designated and/or Specialty Items, as shown in the proposal, are recommended to be at the preconstruction meeting if such items materially affect the work schedule.

Start work within ten (10) days after receiving the Notice of Award or on a date agreed upon with the Engineer. In no case shall any work be commenced prior to the receipt of a formal notice of award from the Monroe County Road Commission.

All contract work shall be completed on or before **October 28, 2017**.

Failure by the Contractor to meet interim or final completion dates will result in the assessment of liquidated damages in accordance with the Proposal.

MONROE COUNTY ROAD COMMISSION

SPECIAL PROVISION  
FOR  
**MAINTAINING TRAFFIC**

MCRC:FW

1 of 2

07-06-17

**a. Description.**

This work shall consist of all labor, materials, and equipment required to maintain traffic as specified herein.

**b. General.**

Maintain traffic in accordance with Sections 104.11 and 812 of the Michigan Department of Transportation 2012 Standard Specifications for Construction, the Michigan Manual of Uniform Traffic Devices 2011 Edition as revised, any typical or supplemental specifications in the proposal as applicable and as herein stated and as directed by the Engineer.

The contractor shall notify the Engineer a minimum of 72 business hours prior to the implementation of lane closures and major traffic shifts.

The Contractor shall be responsible for furnishing, placing, operating, maintaining and removing all temporary traffic control signs and devices to completely close the bridge to all traffic for duration of the work.

Distances between construction warning, regulatory and guide signs shown on the typicals are approximate and may require field adjustment, as directed by the Engineer.

**c. Construction Influence Area (CIA).**

The Construction Influence Area (CIA) shall consist of the width of the existing right-of-way from the project point of beginning to the point of ending. The CIA shall extend a sufficient distance in each direction beyond the project beginning and ending to warn motorists of construction ahead. In addition, the CIA shall include the rights-of-way of any intersecting streets adjacent of the work zone for a distance of approximately 500 feet from the project road. Within the CIA, the Contractor shall provide, erect and maintain plastic drums and minor traffic devices and take all necessary precautions for the protection of the public in accordance with the MMUTCD, Section 812 of the Standard Specifications for Construction, or as otherwise directed by the Monroe County Road Commission.

**d. Traffic Restrictions.**

The bridge shall be completely closed to all traffic for the duration of the work. No detour route signing shall be required as part of the traffic control due to the local nature and low volume of traffic.

The Contractor shall provide local traffic reasonable access to their property within the road closure zone.

**e. Traffic Control Devices.**

Place and maintain temporary traffic control signs, devices, and barricades in accordance with the current Michigan Manual of Traffic Control Devices.



Place "Road Closed to Thru Traffic" signs at the South Otter Creek Road and LaPlaisance/North Otter Creek Road intersections along with two lighted Type III Double Sided Barricades at each intersection.

Place one "Road Closed Ahead" sign 500 feet north of the bridge on Knab Road. Place four "Road Closed Ahead" signs on South Otter Creek Road and LaPlaisance/North Otter Creek Road 500 feet from the intersections with Knab Road.

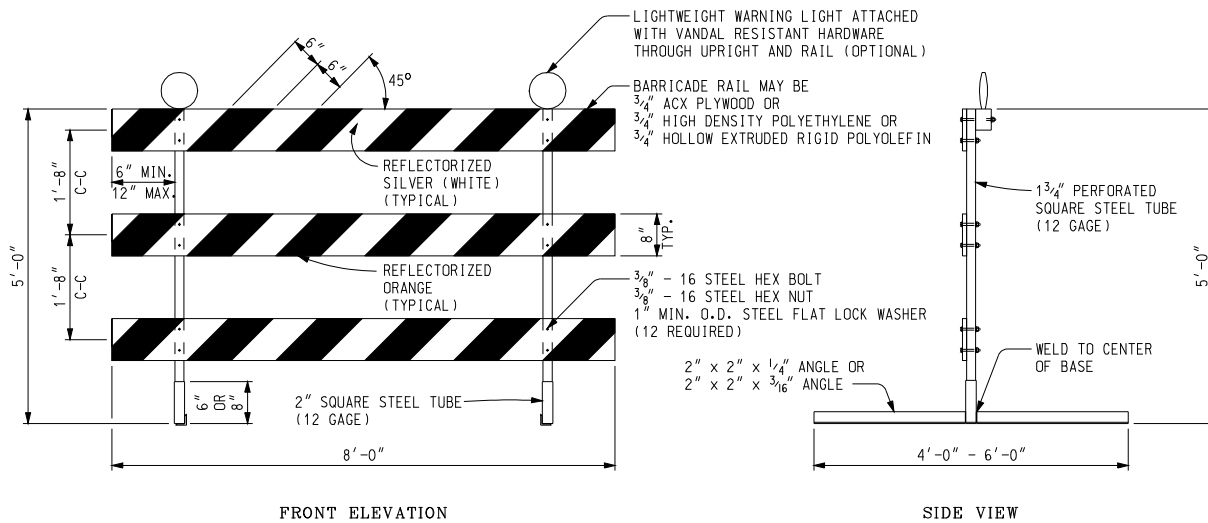
Place two lighted Type III Barricades, per side, at the south and north ends of the bridge with one "Road Closed" sign at the barricades per side. No overnight equipment or material storage will be permitted in the road right of way outside of these barricades.

All traffic control devices and their usage shall conform to the Michigan Manual of Uniform Traffic Control Devices (MMUTCD), 2011 edition, and as specified herein.

Sign	Description	Size (inch)	Size (inch)	Quantity (Each)	Area (sft)
R11-4	Road Closed to Thru Traffic	30	60	2	25
W20-3	Road Closed Ahead	48	48	5	80
R11-2	Road Closed	30	48	2	20
	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn			4	
	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper			4	
	Barricade, Type III, High Intensity, Lighted, Furn			4	
	Barricade, Type III, High Intensity, Lighted, Oper			4	

**f. Measurement and Payment.**

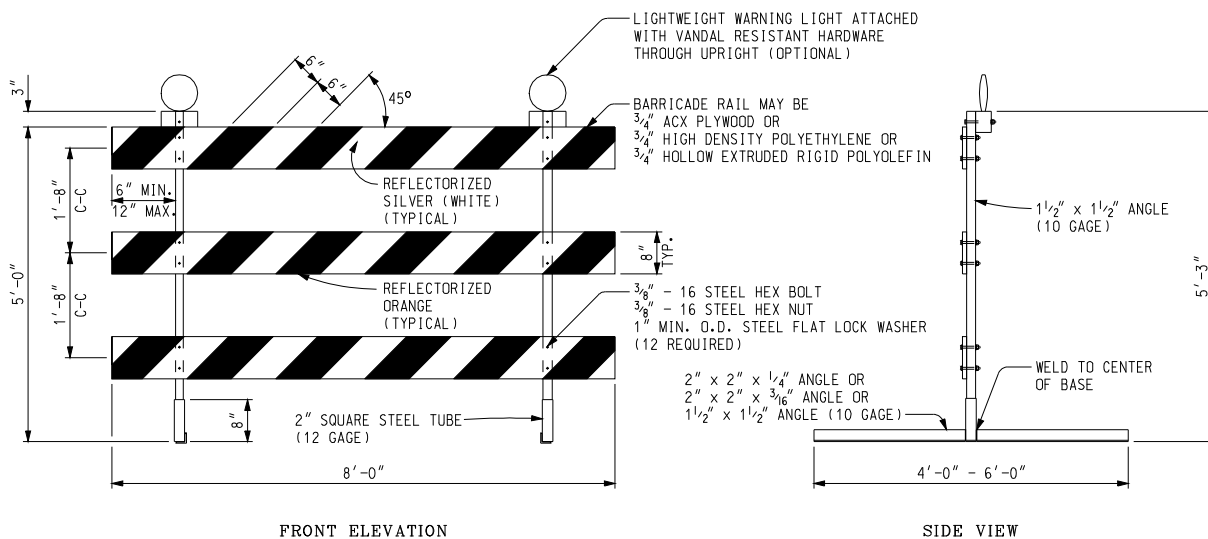
All cost associated with furnishing, placing, operating, maintaining, and removing all temporary traffic control signs and devices as detailed in the Special Provision for Maintaining Traffic shall be considered included in the lump sum pay item **Support, Temp, Left In Place** and will not be paid for separately.



FRONT ELEVATION

SIDE VIEW

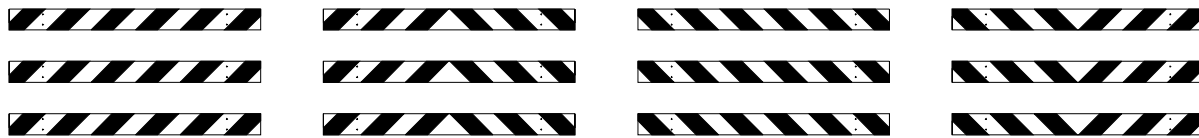
PERFORATED SQUARE STEEL TUBE OPTION



FRONT ELEVATION

SIDE VIEW

ANGLE IRON OPTION



LEFT DIRECTIONAL

BI-DIRECTIONAL

RIGHT DIRECTIONAL

CLOSURES

BARRICADE RAIL SHEETING OPTIONS  
TYPE III BARRICADES

Other Type III Barricades meeting current NCHRP crash worthy criteria can be found on the FHWA Safety website at [http://safety.fhwa.dot.gov/roadway\\_dept/road\\_hardware/wzd.htm](http://safety.fhwa.dot.gov/roadway_dept/road_hardware/wzd.htm)

NOT TO SCALE

File: T&S/Typ/Signs/WorkZones/wzd 125 d

Rev. 09/22/09 PJ



PREPARED BY  
TRAFFIC AND SAFETY

ENGINEER OF DELIVERY

ENGINEER OF DEVELOPMENT

(SPECIAL DETAIL)

FHWA APPROVAL DATE

MICHIGAN DEPARTMENT OF TRANSPORTATION  
BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN FOR

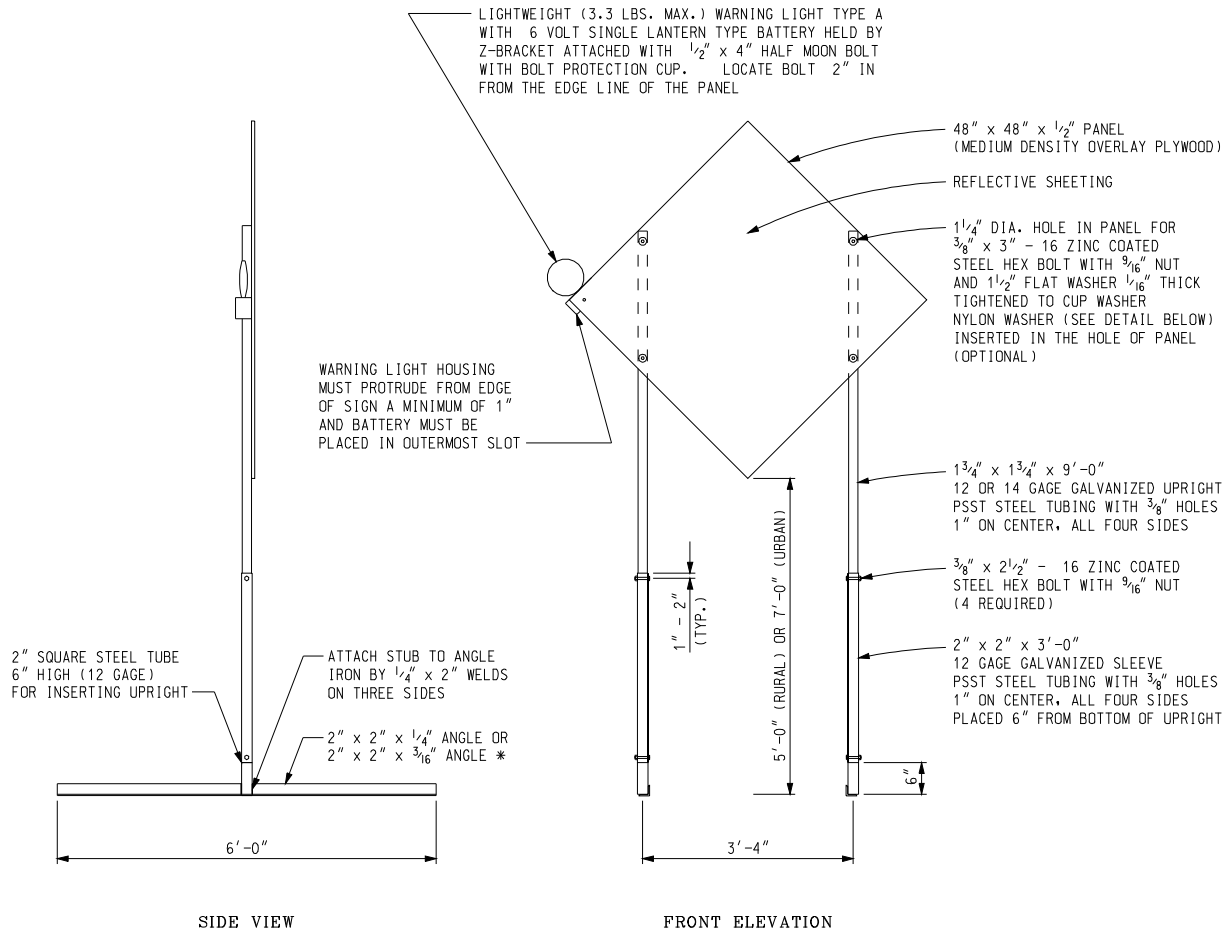
Temporary  
Traffic Control Devices

9/22/09  
PLAN DATE

WZD-125-E

SHEET  
1 of 3

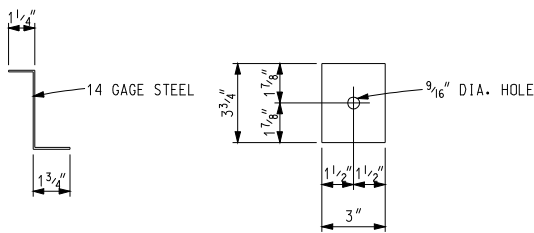
NOTE: THE ORIGINAL SIGNED COPY IS KEPT ON FILE AT THE MICHIGAN DEPARTMENT OF TRANSPORTATION.



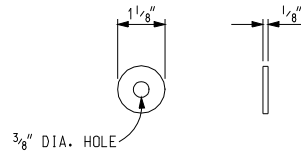
### TEMPORARY SIGN SUPPORT

(WARNING LIGHT PLACED ON SIDE CLOSEST TO TRAFFIC)

\* SIGN STAND IS BALLASTED WITH FOUR OR MORE 35 LB SANDBAGS. A MINIMUM OF ONE ON EACH END.  
 UPRIGHTS SHALL NOT EXTEND ABOVE THE SIGN PANEL.



Z-BRACKET DETAIL



OPTIONAL NYLON WASHER

Other temporary sign supports meeting current NCHRP crash worthy criteria can be found on the FHWA Safety website at [http://safety.fhwa.dot.gov/roadway\\_dept/road\\_hardware/wzd.htm](http://safety.fhwa.dot.gov/roadway_dept/road_hardware/wzd.htm)

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION  
 BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN

(SPECIAL DETAIL)  
 FHWA APPROVAL DATE

9/22/09  
 PLAN DATE

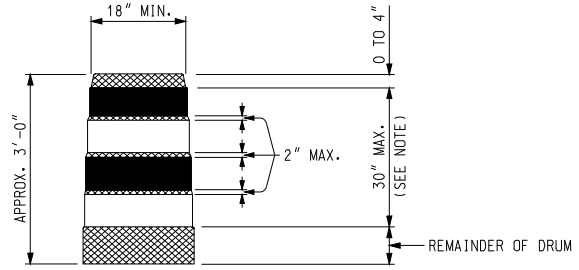
WZD-125-E

SHEET  
 2 of 3

NOTE: THE ORIGINAL SIGNED COPY IS KEPT ON FILE AT THE MICHIGAN DEPARTMENT OF TRANSPORTATION.

- PLASTIC DRUM
- ▲▲▲ PROPOSED TYPE III BARRICADE
- △△△ EXISTING TYPE III BARRICADE

SYMBOLS TO BE USED ON PLANS



- REFLECTORIZED ORANGE
- REFLECTORIZED WHITE
- ▨ NON REFLECTORIZED ORANGE

NOTE:  
 DRUMS SHALL HAVE AT LEAST 4 HORIZONTAL REFLECTORIZED STRIPES (2 ORANGE AND 2 WHITE) OF 6" UNIFORM WIDTH, ALTERNATING IN COLOR WITH THE TOPMOST REFLECTORIZED STRIPE BEING ORANGE. NON REFLECTORIZED SPACES BETWEEN THE HORIZONTAL REFLECTORIZED ORANGE AND WHITE STRIPES SHALL BE ORANGE IN COLOR AND EQUAL IN WIDTH.

PLASTIC DRUM

NOTES:

2" PERFORATED SQUARE STEEL TUBES MAY BE USED TO FABRICATE THE HORIZONTAL BASE OF THE TYPE III BARRICADE.

WARNING LIGHTS SHALL BE PLACED ACCORDING TO THE CURRENT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND ALL OTHER PROVISIONS IN THE CONTRACT WHEN THEY ARE USED ON TYPE III BARRICADES.

SEE ROAD STANDARD PLANS R-113-SERIES FOR TEMPORARY CROSSOVERS FOR DIVIDED ROADWAY, AND R-126-SERIES FOR TYPICAL LOCATION AND SPACING OF PLASTIC DRUMS FOR PLACEMENT OF TEMPORARY CONCRETE BARRIER.

SIGNS, BARRICADES, AND PLASTIC DRUMS SHALL BE FACED WITH PRESSURE-SENSITIVE REFLECTIVE SHEETING ACCORDING TO THE CURRENT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

SANDBAGS SHALL BE USED WHEN SUPPLEMENTAL WEIGHTS ARE REQUIRED TO ACHIEVE STABILITY OF THE BARRICADE. THE SANDBAGS SHALL BE PLACED SO THEY WILL NOT COVER OR OBSTRUCT ANY REFLECTIVE PORTION OF THE TRAFFIC CONTROL DEVICE.

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	(SPECIAL DETAIL) FHWA APPROVAL DATE	9/22/09	WZD-125-E	SHEET 3 of 3
File: T&S/Typ/Signs/WorkZones/wzd 125 d	Rev. 09/22/09 PJ	PLAN DATE		

NOTE: THE ORIGINAL SIGNED COPY IS KEPT ON FILE AT THE MICHIGAN DEPARTMENT OF TRANSPORTATION.

MONROE COUNTY ROAD COMMISSION

SPECIAL PROVISION  
FOR  
**SUPPORT, TEMP, LEFT IN PLACE**

MSG:MTM

1 of 2

07-06-2017

**a. Description.** This work consists of furnishing all equipment, materials, and labor required to fabricate, install, and leave temporary supports in place. It also includes associated items of work at location in order to access the site (mobilization, clearing, scaffolding, etc.). The work described herein must be performed in accordance with sections 707, 712 and 713 of the Standard Specifications for Construction.

**b. Materials.** Provide materials in accordance with the following:

Structural Steel.....	707
Epoxy Resin Adhesive.....	914
High Strength Bolts, Lag Screws, and Hardware.....	906
Structural Timber and Lumber .....	912

Furnish White Oak No. 1 Heartwood timbers that are 12 inches by 12 inches (actual dimensions) with square edges in lengths as shown on the plans.

Furnish Fabreeka SA-47 Random Fiber (ROF) Pads in the dimensions shown on the plans or an approved equivalent.

Hot dip galvanize all of the materials for the steel support per *ASTM A 123* after fabrication. Hot dip galvanize high strength steel bolts, nuts, threaded rod, washers and lock washers for field connections per *ASTM A 153*.

**c. Construction.** Construct temporary supports in accordance with subsections 713.03.B and 713.03.B.1 of the Standard Specifications for Construction.

Field verify the height and spacing of temporary supports prior to ordering materials. The work required to field verify the height and spacing is included in the pay item.

Adhesive anchors shall be installed and proof tested in accordance with section 712 of the Standard Specifications for Construction.

Install Fabreeka pads, support frames, hardware, white oak timbers and shims as shown on the plans.

Flame cutting will not be permitted to remove existing connection bolts and welds.

**d. Fabrication and Welding**

1. General Requirements. Temporary supports are defined to be primary members and must follow the *AASHTO/AWS D1.5:2010, Bridge Welding Code* (as modified by 12SP-707A - Structural Steel and Aluminum Construction), hereafter called *AWS D1.5*, and in accordance with section 707.03 of the Standard Specifications for Construction, except as modified herein. Temporary supports are subject to 100 percent visual testing (VT) inspection

for all welds, magnetic particle (MT) inspection for fillet welds and partial joint penetration welds, ultrasonic testing (UT) inspection for complete joint penetration welds, and penetrant testing (PT) inspection for partial and complete joint penetration weld terminations. Weld inspector qualification requirements are specified in section 707.03 of the Standard Specifications for Construction.

2. **Welder Requirements.** Ensure the temporary support welder is a MDOT Qualified Welder tested by the Department in accordance with subsection 707.03.C.9 of the Standard Specifications for Construction for shop welding. Welders must pass the welder qualification test for the welding process and position proposed in the Welding Procedure Specification (WPS) and present a copy of the endorsement to the Engineer prior to welding on Department projects. Welder qualification remains in effect for 2 years for field welders and 3 years for shop welders, unless the welder does not engage in welding for at least 3 months, or a specific reason exists to question the welder's ability. The Engineer may require a confirming qualification test during the progress of the work.

For additional information about the MDOT Welder Qualification Program visit the web location listed below:

[http://www.michigan.gov/documents/mdot/Welder\\_Qualification\\_Program\\_Portfolio\\_071014\\_462432\\_7.pdf](http://www.michigan.gov/documents/mdot/Welder_Qualification_Program_Portfolio_071014_462432_7.pdf)

3. **Field Welding Plan.** Submit the MDOT Form 0395 (MDOT AASHTO/AWS D1.5 – Field Welding Plan) in Adobe portable document format (PDF) for review and approval by the Engineer. Submit the field welding plan for review to the Engineer a minimum of 5 working days before the start of welding. Do not perform temporary support welding until the field welding plan has been approved by the Engineer.

4. **Shop WPS.** Submit all WPS's in Adobe portable document format (PDF) for review and approval by the Engineer a minimum of 5 working days before the start of welding. Do not perform temporary support welding until the field welding plan has been approved by the Engineer.

**e. Measurement and Payment.** The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

<b>Pay Item</b>	<b>Pay Unit</b>
Support, Temp, Left in Place .....	LUMP SUM

**Support, Temp, Left in Place** includes the completed work as described above and in the plans attached. All mobilization, site access work, materials, fabrication, galvanizing, scaffolding, equipment and labor required to concrete core drill, epoxy anchor threaded rods, erect support frames, install blocking and perform all other work to install the **Support, Temp, Left in Place** per this special provision, and detailed drawing, is included with this pay item.

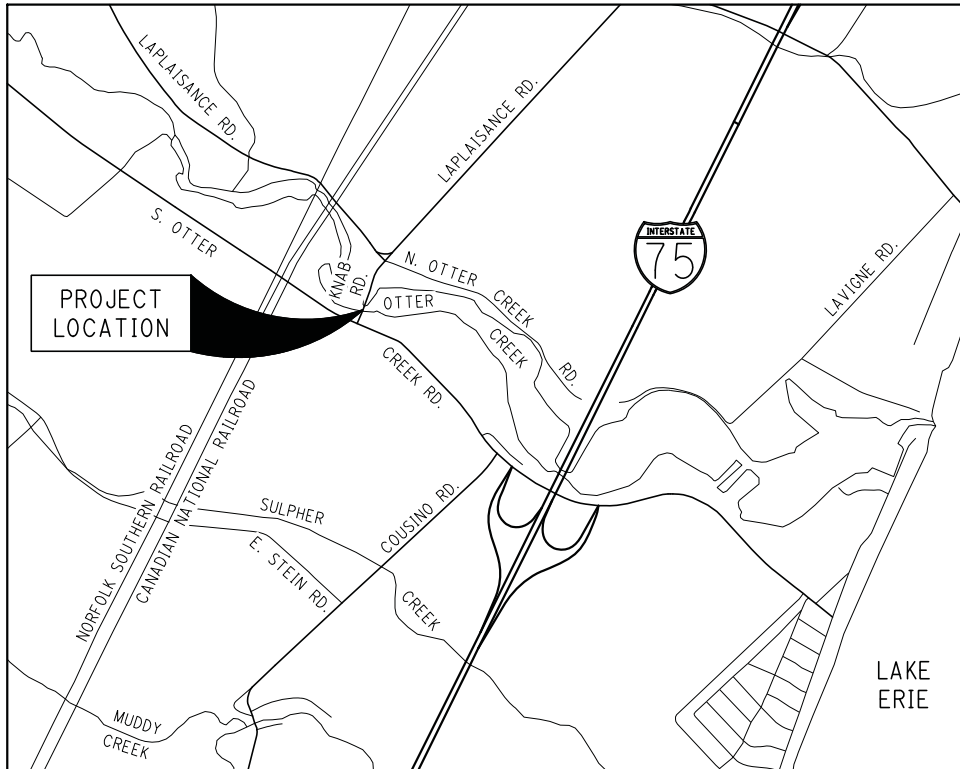
# MONROE COUNTY ROAD COMMISSION

## CONSTRUCTION PLANS FOR

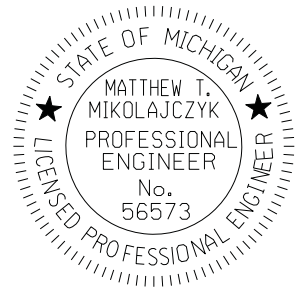
# KNAB ROAD BRIDGE OVER OTTER CREEK

## TEMPORARY BRIDGE REPAIR

LASALLE TOWNSHIP  
MONROE COUNTY



LOCATION MAP



PREPARED UNDER THE SUPERVISION OF:

*Matthew T. Mikolajczyk*  
MATTHEW T. MIKOLAJCZYK, P.E.  
REGISTRATION NO. 56573

July 6, 2017  
DATE

COUNTY ROAD COMMISSION APPROVAL

APPROVED BY: *Frank Westenkirchner*  
FRANK WESTENKIRCHNER, P.E.

July 6, 2017  
DATE



**Monroe County Road Commission**  
840 S. Telegraph Road  
Monroe, MI 48161  
Phone 734 240 5100  
Fax 734 240 5101

DESIGN UNIT: M. MIKOLAJCZYK

JN: 460-009-179009

MONROE COUNTY ROAD COMMISSION

KNAB ROAD OVER OTTER CREEK

TITLE SHEET

DATE: 06/27/17

DRAWING SHEET

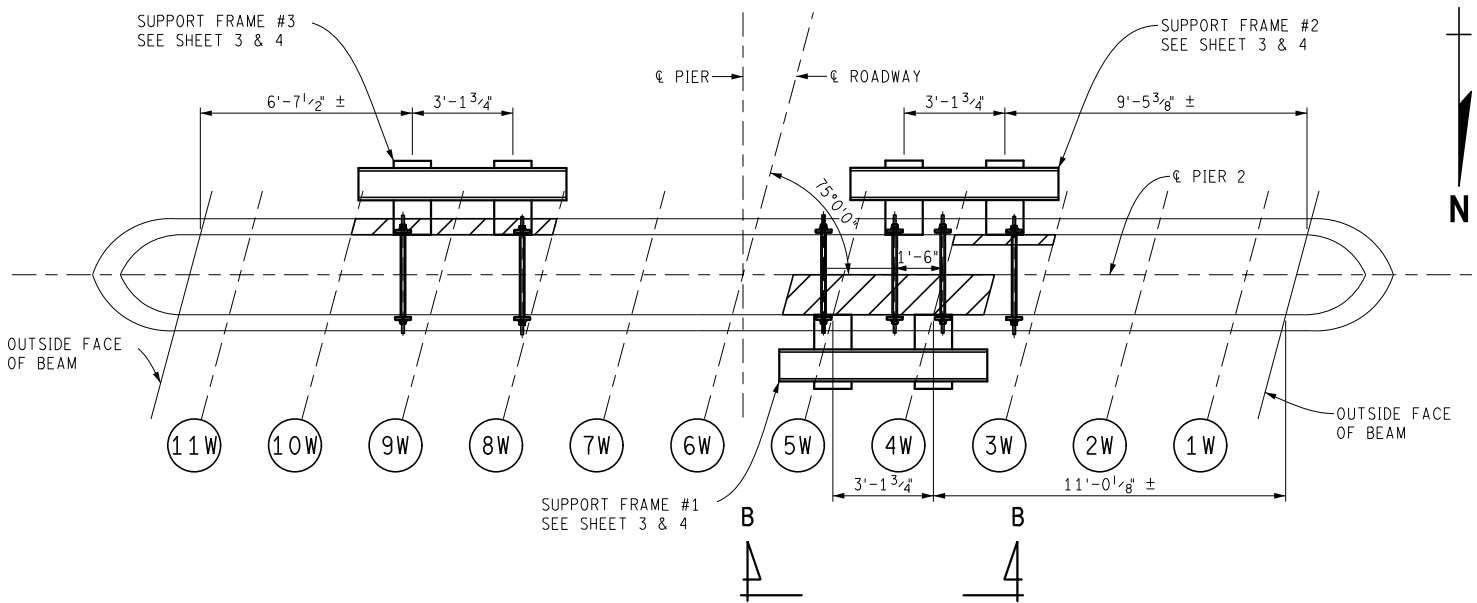
KNAB  
TS  
001

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FILE: MCR0060\_TS01.DGN

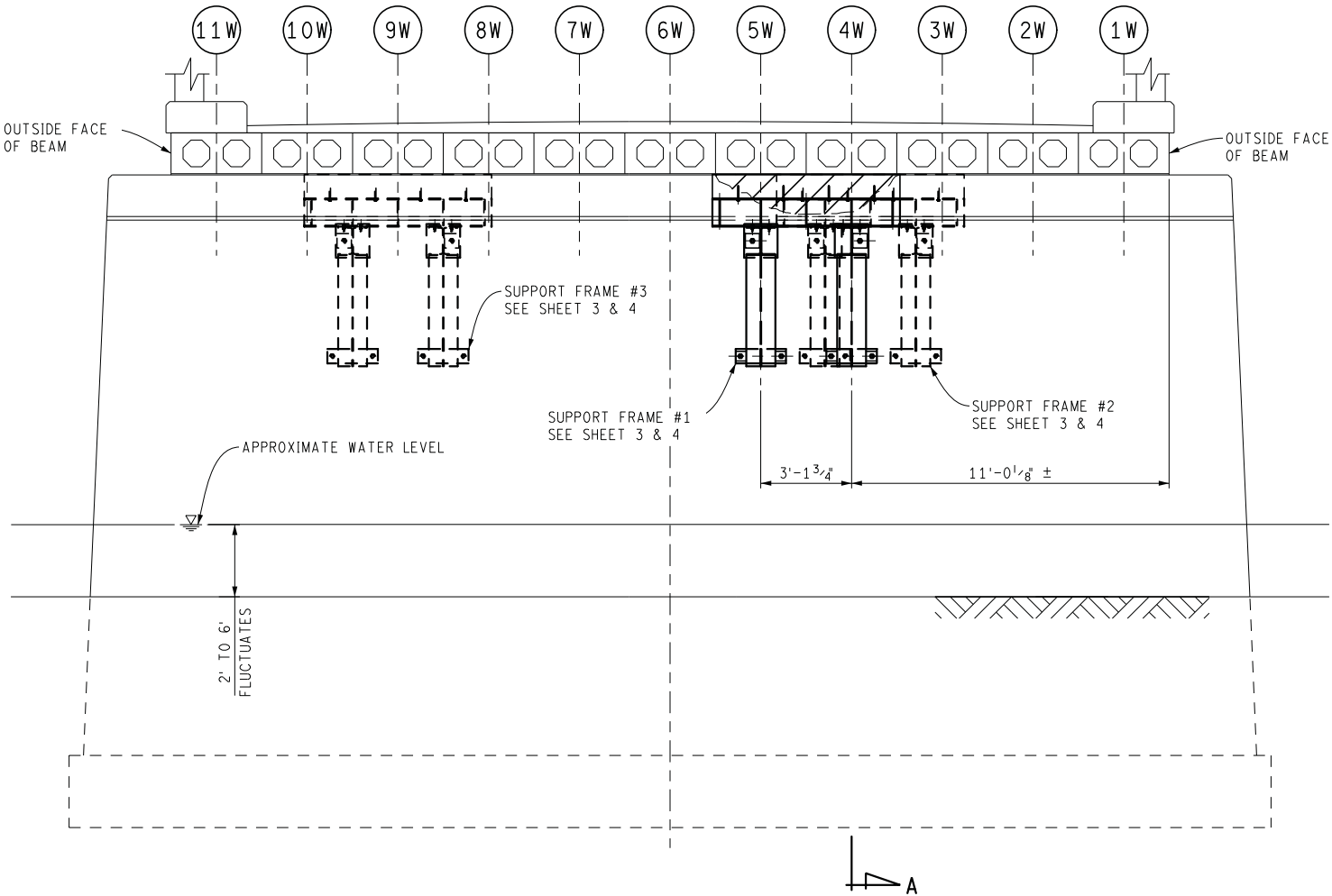
DRAWN BY: DAB

CHK'D BY: MTM



**PLAN**

BEAMS, RAILING, AND DECK NOT SHOWN



**PIER 2 - NORTH ELEVATION**

DENOTES TOP OF PIER DAMAGE AREA

**Mannik Smith GROUP**  
TECHNICAL SKILL. CREATIVE SPIRIT.  
 www.MannikSmithGroup.com

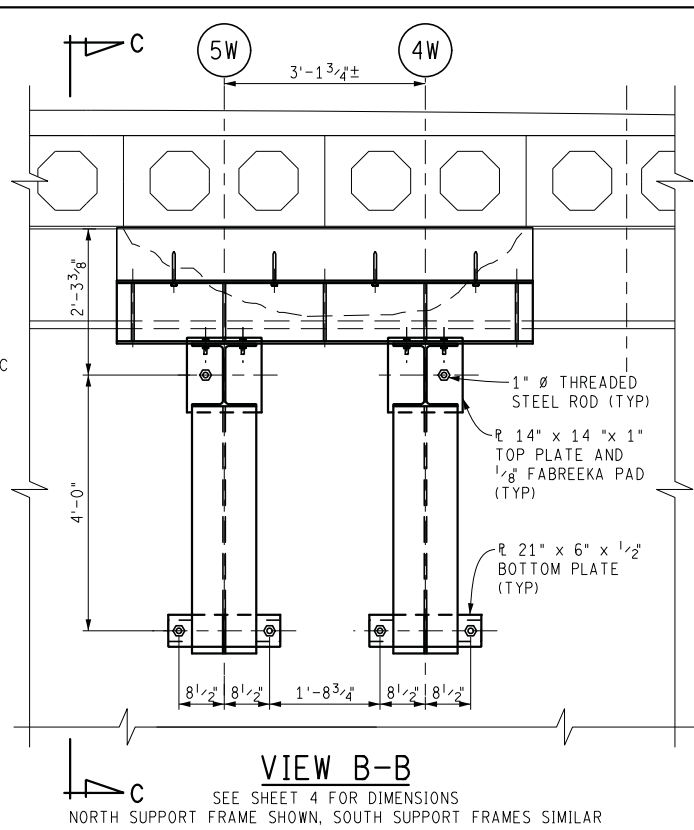
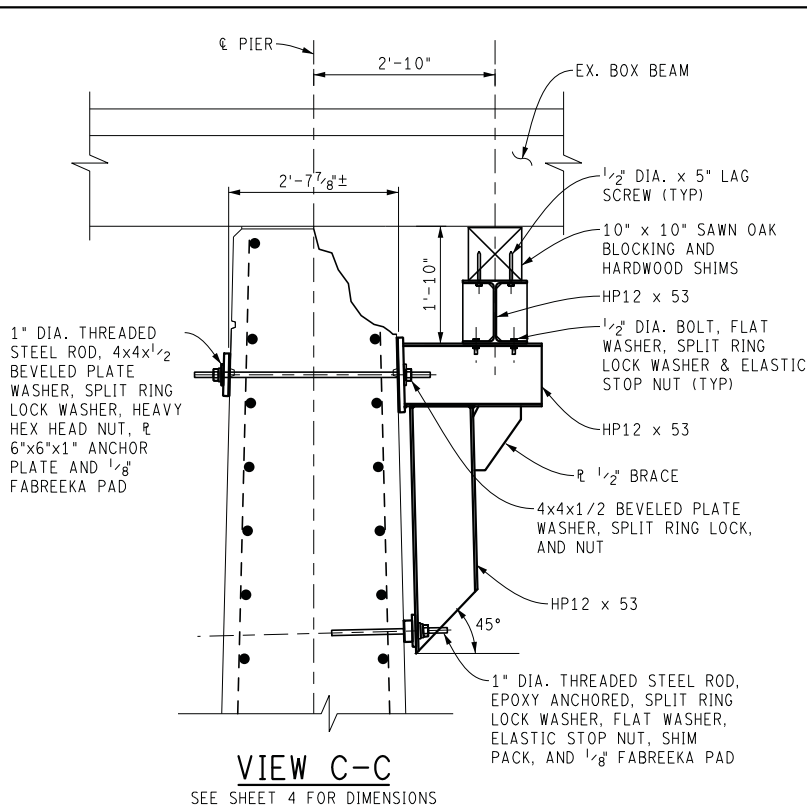
**Monroe County Road Commission**  
 840 S. Telegraph Road  
 Monroe, MI 48161  
 Phone 734 240 5100  
 Fax 734 240 5101

DESIGN UNIT: M. MIKOLAJCZYK
JN: 460-009-179009

MONROE COUNTY ROAD COMMISSION	
KNAB ROAD OVER OTTER CREEK	
PIER 2 DETAIL	

DATE: 06/27/17
DRAWING SHEET
KNAB DET 001
2





**NOTES:**

EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS, OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED HEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE ACCORDING TO THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 2012 EDITION.

BIDDERS WILL BE FURNISHED WITH SCANNED IMAGES OF PLAN SHEETS OF THE EXISTING STRUCTURE IF REQUESTED.

THE DESIGN OF THE STRUCTURAL MEMBERS IS BASED ON MATERIAL OF THE FOLLOWING GRADES AND STRESSES:

- STRUCTURAL STEEL: PLATES  
AASHTO M270 GRADE 36                      Fy = 36,000 psi
- STRUCTURAL STEEL: ROLLED SHAPES  
AASHTO M270 GRADE 50                      Fy = 50,000 psi
- STRUCTURAL STEEL: THREADED STEEL ROD  
ASTM A722 GRADE 150                      Fu = 150,000 psi

ALL STRUCTURAL STEEL MEMBERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED.

**INSTALLATION PROCEDURE FOR TIMBER LAG SCREWS:**

- A) THE HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK (0.5 INCHES), AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK (2.0 INCHES).
- B) THE LEAD HOLE FOR THE THREADED PORTION OF THE LAG SCREW SHALL HAVE A DIAMETER OF 11/32" AND SHALL BE THE LENGTH OF THE THREADED PORTION OF THE LAG SCREW (3.0 INCHES).
- C) COAT THREADED PORTION OF THE LAG SCREW WITH ADHESIVE.
- D) THE THREADED PORTION OF THE LAG SCREW SHALL BE INSERTED INTO ITS LEAD HOLE BY TURNING WITH A WRENCH. DRIVING LAG SCREWS BY THE USE OF A HAMMER IS PROHIBITED.

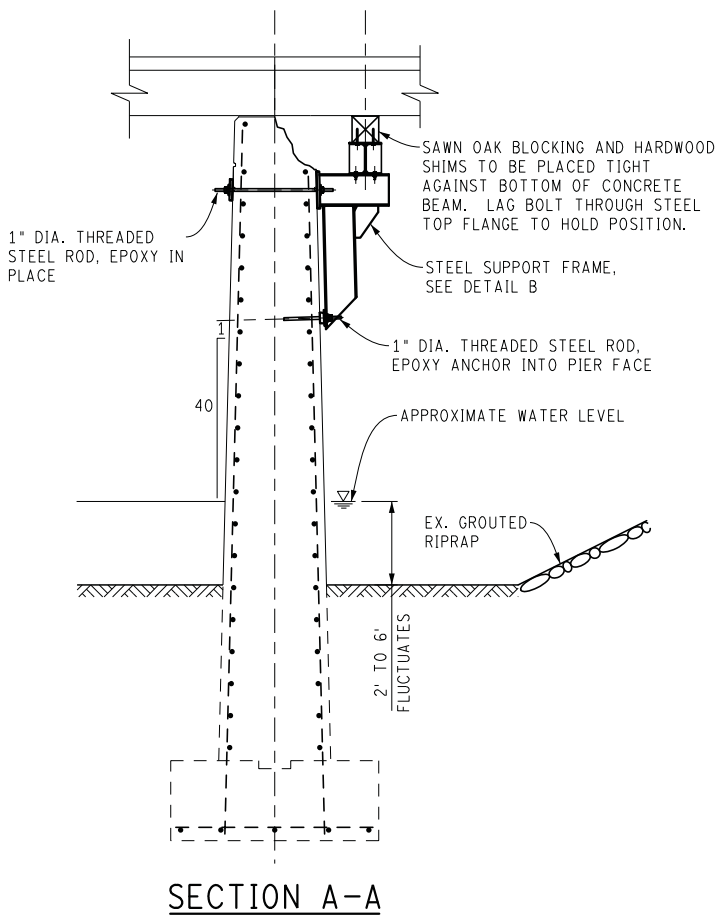
ALTERNATE DESIGNS OF THE TEMPORARY SUPPORT SHALL BE BASED ON LOADS AS FOLLOWS:

- 6 TONS VERTICAL GIRDER DEAD SERVICE LOAD.
- 13 TONS VERTICAL GIRDER LIVE SERVICE LOAD.
- 19 TONS VERTICAL GIRDER TOTAL SERVICE LOAD.

SYSTEMS FOR ANCHORING HORIZONTAL REINFORCEMENT AND THREADED ROD IN EXISTING CONCRETE SHALL BE CHOSEN FROM THE QUALIFIED PRODUCTS LIST IN THE CURRENT MDOT MATERIALS SOURCE GUIDE.

ALL CONCRETE ANCHORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

ATTACH FABREEKA PAD TO TOP PLATE WITH CONSTRUCTION ADHESIVE.

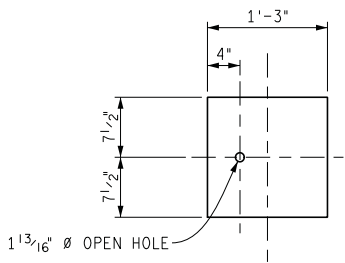


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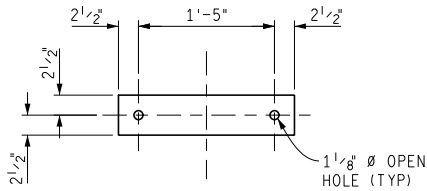
DESIGN UNIT: M. MIKOLAJCZYK  
JN: 460-009-179009

MONROE COUNTY ROAD COMMISSION  
KNAB ROAD OVER OTTER CREEK  
TEMPORARY SUPPORT DETAILS

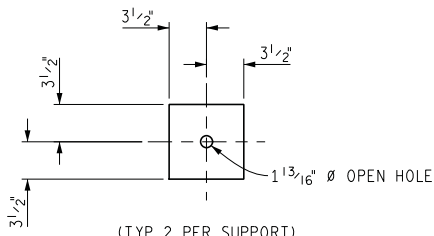
DATE: 06/27/17  
DRAWING SHEET  
KNAB DET 002  
3



(TYP 2 PER SUPPORT)

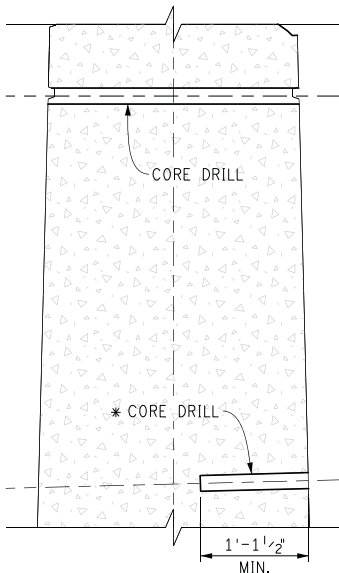


(TYP 2 PER SUPPORT)



(TYP 2 PER SUPPORT)

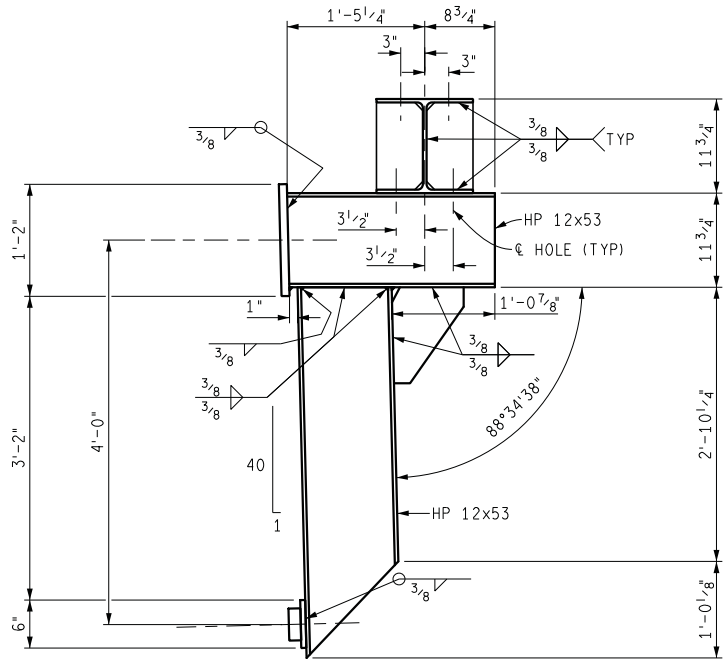
### FABREEKA PADS



\* CORE DRILL TO THE DIAMETER SPECIFIED BY ADHESIVE ANCHOR MANUFACTURER

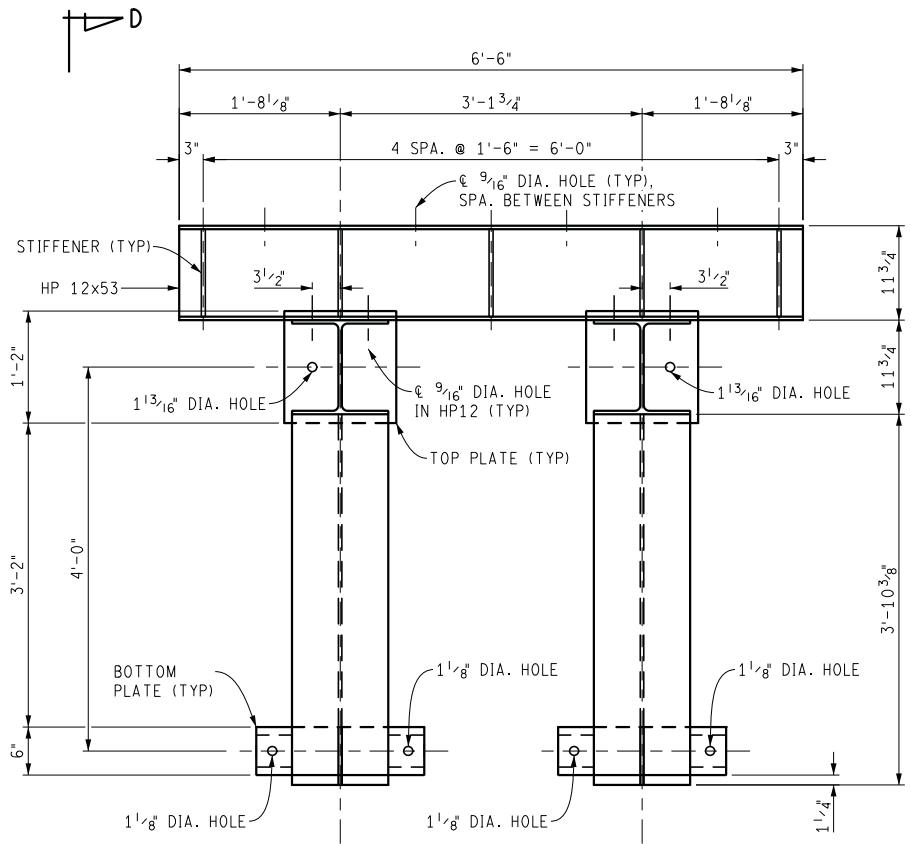
### DOWEL HOLES

SCALE 1/2" = 1'



### SECTION D-D

SCALE 1/2" = 1'



### SUPPORT FRAME ELEVATION

SCALE 1/2" = 1'



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MONROE COUNTY ROAD COMMISSION

KNAB ROAD OVER OTTER CREEK

TEMPORARY SUPPORT DETAILS

DATE: 06/27/17

DRAWING SHEET

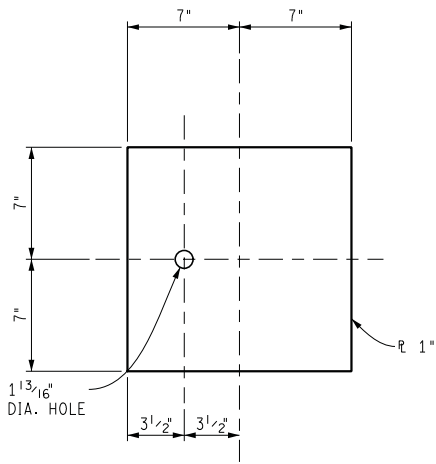
KNAB DET 003

4

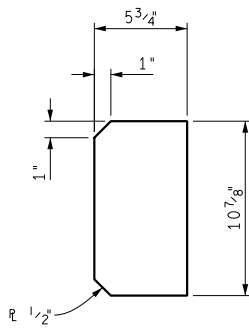
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DRAWN BY: DAB

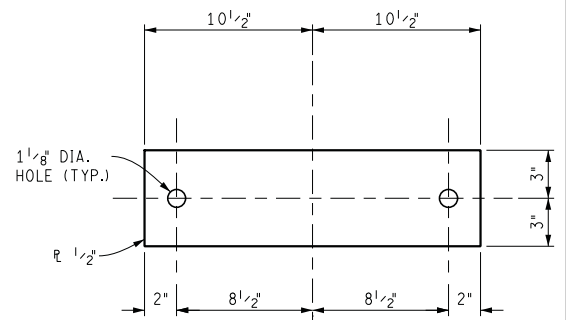
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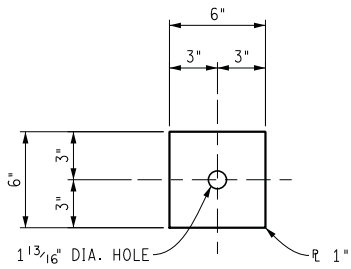
**TOP PLATE**  
(TYP 2 PER SUPPORT)



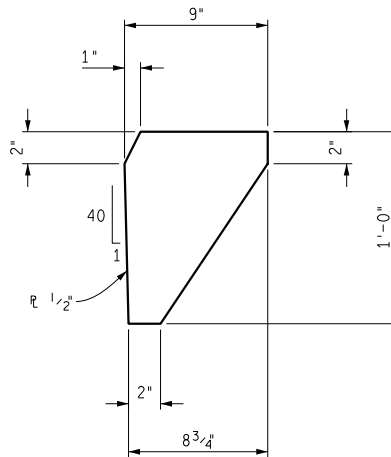
**STIFFENER**  
(TYP 10 PER SUPPORT)



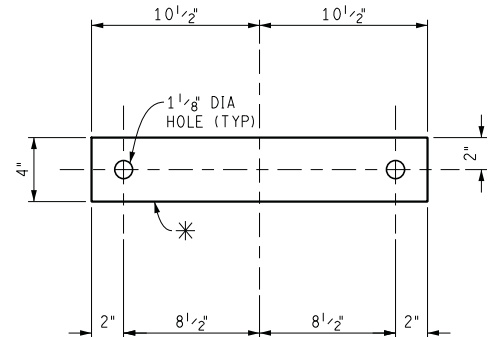
**BOTTOM PLATE**  
(TYP 2 PER SUPPORT)



**ANCHOR PLATE**  
(TYP 2 PER SUPPORT)



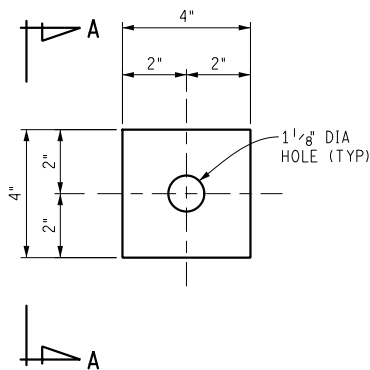
**BRACE**  
(TYP 2 PER SUPPORT)



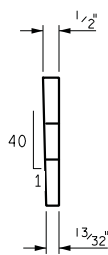
- \* SHIM PACK CONSIST OF 6 SHIMS OF THE FOLLOWING THICKNESSES:  
 2 - 1/8" THICK  
 1 - 1/4" THICK  
 1 - 1/2" THICK  
 1 - 3/4" THICK  
 1 - 1 1/2" THICK

**SHIM PACK**

(TYP 2 PER SUPPORT)  
 A MAXIMUM OF 3 SHIM SHALL BE USED UNDER BOTTOM PLATE



**PLAN**



**SECTION A-A**

**BEVELED PLATE WASHER**

(TYP 4 PER SUPPORT)



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MONROE COUNTY ROAD COMMISSION  
 KNAB ROAD OVER OTTER CREEK  
 TEMPORARY SUPPORT DETAILS

DATE: 06/27/17  
 DRAWING SHEET  
 KNAB DET 004  
 5

NOTICE TO BIDDERS  
**UTILITY COORDINATION**

MCRC:FW

1 of 1

07-05-17

The Contractor shall cooperate and coordinate construction activities with the owners of utilities as stated in subsection 104.08 of the Michigan Department of Transportation 2012 Standard Specifications for Construction. In addition, for the protection of underground utilities, the contractor shall follow the requirements in subsection 107.12 of the Michigan Department of Transportation 2012 Standard Specifications for Construction. Contractor delay claims, resulting from a utility, will be determined based upon subsection 108.09 of the Michigan Department of Transportation 2012 Standard Specifications for Construction.

For the protection of underground utilities and in conformance with Public Act 174 of 2013, the Contractor shall contact MISS DIG by calling (800) 482-7171 or by dialing 8-1-1 a minimum of three full working days, excluding Saturdays, Sunday and holidays, prior to beginning an excavation in an area where public utilities have not been previously located. Members will thus be routinely notified. This does not relieve the Contractor of the responsibility of notifying utility owners who are not a part of the MISS DIG System.

Public Utilities

The following Public Utilities have facilities located within the Right-of-Way:

ELECTRIC

Consumers Energy  
1955 West Parnell Road  
Jackson, MI 49201  
David Southward  
517-788-2400  
david.southward@cmsenergy.com

PHONE

AT&T  
17651 Michigan Ave.  
Dearborn, MI 48126  
Joe Raczak  
313-240-5314  
jr1983@att.com

WATER

South County Water System  
9489 Lewis Avenue  
Temperance, MI 48182  
Chris Schmidt  
734-847-0579

CABLE

Charter Communications  
1145 South Telegraph Road  
Monroe, MI 48161  
Larry Clendening  
734-240-4015  
lawrence.clendening@charter.com

The owners of existing service facilities that are within the grading limits will protect or move them to locations designated by the Engineer or will remove them entirely from the highway Right-of-Way. Owners of Public Utilities will not be required by the County to move additional poles or structures in order to facilitate the operation of construction equipment unless it is determined by the Engineer that such poles or structures constitute a hazard to the public or are extraordinarily dangerous to the Contractor's operations.