

BEAVER COUNTY CLERK
KELLY YEOMANS
P. O. BOX 338
BEAVER, OKLAHOMA 73932
PHONE 580 625-3151

TO WHOM IT MAY CONCERN:

Bids will be received until **October 8, 2021 at 5:00 P.M.** in the Beaver County Clerk's Office of the Beaver County Courthouse in Beaver, Oklahoma.

Said bids will be publicly opened and considered by the Board of Beaver County Commissioners in the Commissioner's Office on the **12th day of October, 2021 at 10:00 A.M.** with the right being reserved to reject any or all bids.

The following criteria should be met when submitting a bid:

1. The bid shall be made on the enclosed "Invitation to Bid" and the Affidavit of Non-Collusion must be signed and notarized.
2. All prices quoted shall be F.O.B. Beaver County.
3. Place your bid in a sealed envelope clearly marked, "**SEALED BID #2**". This ensures that the bid will not be voided due to accidental opening.
4. On all bids requiring services or contract labor, proof of liability insurance with at least \$1,000,000.00 liability and Workmen's Compensation is required. If you cannot furnish these you must furnish us with a Certificate of Non-Coverage.
5. **All bids on public construction contracts exceeding \$50,000.00 shall accompany the bid with a certified check, cashier's check or bid bond equal to 5% of the bid, which shall be deposited with the awarding public agency as a guaranty. Or, an irrevocable letter of credit issued by a financial institution, insured by the FDIC on behalf of the awarding public agency, in an amount equal to 5% of the bid.**
6. **Contract will not be executed until all bonds (Payment, Performance and Warranty) and insurance are provided.**

NOTE: ALL BID PROPOSALS WILL BE DEEMED INVALID AND THEREFORE REJECTED WHICH DO NOT CONTAIN THE "INVITATION TO BID" AND THE SIGNED AND NOTARIZED "NON-COLLUSION AFFIDAVIT".

Thank you for your cooperation and participation in this bidding procedure. Should you have any questions, please feel free to contact the Beaver County Clerk's Office at (580) 625-3151.

Respectfully,

Kelly Yeomans,
Beaver County Clerk

CONTRACT DOCUMENTS
AND
PLANS AND SPECIFICATIONS

for

Beaver County

Materials for Bridge Project

Bridge over Indian Creek

04E0340N1570006

Prepared for

Beaver County

August 2021

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* See ODOT 2009 Standard Specifications for Highway Construction

Beaver County, Oklahoma
COUNTY PURCHASING OFFICE
 Beaver County Courthouse
 Beaver, OK 73932

INVITATION TO BID

| PLEASE REVIEW TERMS AND CONDITIONS ON REVERSE SIDE RELATING TO SUBMISSION OF THIS BID. | | | | DATE ISSUED | |
|---|----------|--|--|--|-------|
| Notarized Affidavit completions and signature required on reverse side. | | | | Page 1 of <u> 2 </u> | |
| BID NUMBER <p style="text-align: center;">2</p> | | BID CLOSING DATE AND HOUR <p style="text-align: center;">October 8th, 2021 at 5:00 P.M.</p> | | REQUIRED DELIVERY DATE _____ Days after award of Purchase Order | |
| TERMS: Bidding documents shall be obtained from the Beaver County Courthouse. Bids will be opened at 10.00 A.M. on October 12th, 2021. | | | | DATE OF DELIVERY: | |
| Item | Quantity | Unit of Issue | Description | Unit Price | Total |
| | | | Materials for Construction of `Bridge Bridge over Indian Creek 04E0340N1570006 Pre-Bid Meeting Non-Mandatory Date: September 28th, 2021 Time: 10:00 A.M. Location: Project Bridge Site | | |

TERMS AND CONDITIONS

1. Sealed bids will be opened in the Beaver County Courthouse, 111 Second St., Beaver, OK 73932 at the time and date shown on the invitation to bid form.
2. Late bids will not be considered. Bids must be received in sealed envelopes (one to an envelope) with bid number and closing date written on the outside of each envelope.
3. Unit prices will be guaranteed correct by the bidder.
4. Firm prices will be F.O.B. destination.
5. Purchases by Beaver County, Oklahoma are not subject to state or federal taxes.
6. This bid is submitted as a legal offer and any bid when accepted by the County constitutes a firm contract.
7. Oklahoma laws require each bidder submitting a bid to a county for goods or services to furnish a notarized sworn statement of non-collusion. A form is supplied below.
8. Bids will be firm until _____ .
(Date)

AFFIDAVIT: I, the undersigned, of lawful age, being first duly sworn on oath say that he (she) is the agent authorized by the bidder to submit the above bid. Affiant further states that the bidder has not been a party to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding; or with any state official or employee as to quantity; quality or price in the prospective contract or any other terms of said prospective contract; or in any discussions between bidders and any state official concerning exchange of money or other thing of value for special consideration in the letting of a contract; that the bidder/contractor has not paid, given or donated or agreed to pay, give or donate to any officer or employee of the State of Oklahoma (or other entity) any money or other thing of value, either directly or indirectly in the procuring of the award of a contract pursuant to this bid.

Subscribed and sworn before this _____ day
of _____, 20_____.

(SEAL)

Firm: _____

My commission expires: _____

Signed by: _____ Title: _____
(Manual Signature of Undersigned)

NOTARY PUBLIC (CLERK OR JUDGE)

Address: _____ Phone: _____

City: _____ State: _____

Zip: _____

PROPOSAL

TO: Beaver County Commissioners
Beaver County, Oklahoma

Gentlemen:

Pursuant to the notice inviting proposals, the undersigned bidder herewith submits his proposal.

He declares he has carefully examined the Plans, Specifications and forms of Contract and bonds as set forth in the proceedings for:

**Beaver County
Materials for Bridge Project
Bridge over Indian Creek
04E0340N1570006**

and that he has reached a full understanding of everything required on said Plans and Specifications, and that he has informed himself as to the kind and quantities of various materials to be furnished and/or the nature and location of the work to be done, and all other matters affecting the work.

The undersigned bidder proposes and agrees that if his proposal is accepted, to enter into contract with the County, on forms prescribed, with approved sureties, within seven (7) days, after notice of award to execute the Contract, and to furnish to the County a satisfactory Performance and Statutory Bond in the sum of 100% of the contract price, guaranteeing the faithful performance of the work and payment of bills.

To do any extra work not covered by the following schedule of prices or stipulated lump sum price which may be ordered by the Engineer and to accept as full compensation therefor such prices as may be agreed upon in writing by the Engineer and the Contractor in accordance with Section 108.04 of the General Provisions.

It is further agreed that the Contractor shall begin the work on the date indicated in the Notice to Proceed and to prosecute said work in such a manner as to complete all work contracted for within 120 calendar days following the Notice to Proceed. The Notice to Proceed shall become effective within 30 calendar days of the bid opening.

The Contractor shall take out and maintain public liability insurance in accordance with Section 106.25 of the General Provisions of the Specifications. A copy of said Specifications is now on file in the Office of the County Clerk.

Upon completion of the Contract, the Contractor shall furnish to the County a satisfactory Maintenance Bond in the amount of 100% of the final contract price, guaranteeing the maintenance of the work for a period of ONE (1) year after acceptance by the County.

Accompanying this proposal is a proposal guaranty for 5% of the total bid, payable to Beaver County, which is to be forfeited, as liquidated damages, if, in the event that this proposal is accepted, the undersigned shall fail to execute the contract and furnish satisfactory contract bond under the conditions and within the time specified in this proposal. Otherwise said proposal guaranty is to be returned to the undersigned.

**PROPOSAL
Beaver County
Materials for Bridge Project
Bridge over Indian Creek
04E0340N1570006**

(Labor, Beams and Concrete Not Included)

| BRIDGE OVER INDIAN CREEK SCHEDULE OF MATERIALS | | | |
|--|------|--|---|
| Qty | Unit | ITEM | Bid Price for Material Over Planned Quantity |
| 60.00 | L.F. | 5 3/4" x 1/2" FLAT, BENT CAP STIFFENER | L.F. |
| 100.00 | L.F. | C7" X 9.8# CHANNEL, DECK SIDES | L.F. |
| 340.00 | L.F. | C8" x 11.5# CHANNEL, BACKWALL BRACING | L.F. |
| 60.00 | L.F. | C10" x 20# CHANNEL, DECK ENDS | L.F. |
| 75.00 | L.F. | C12" x 25# CHANNEL, WING CAP | L.F. |
| 380.00 | L.F. | 3" x 3" x 1/4" ANGLE | L.F. |
| 140.00 | L.F. | 5" x 3" x 1/4" ANGLE | L.F. |
| 9,420.00 | L.F. | REBAR, #4 | L.F. |
| 84.00 | EA. | SLAB BOLSTERS, 1" | EA. |
| 84.00 | EA. | SLAB BOLSTERS, 2" | EA. |
| 1.00 | ROLL | REBAR TIES, 6" | ROLL |
| 154.00 | EA. | WELD STUDS, 5/8" x 6" | EA. |
| 2,421.00 | S.F. | BACKWALL SHEETING, INTERLOCKING GALV. 10 GA. | S.F. |
| 1,42800 | S.F. | GALV. DECK FORM | S.F. |
| 120.00 | L.F. | W6" x 20#, GUARDRAIL POST | L.F. |
| 360.00 | L.F. | HP10" x 42#, WING PILES (12 PILES x 30') | L.F. |
| 480.00 | L.F. | HP10" x 42#, ABUTMENT PILES (12 PILES x 40') | L.F. |
| 60.00 | L.F. | HP12" x 53#, CAPS (2 CAPS x 30') | L.F. |
| | | | |
| | | | |
| | | | |
| | | | |
| | | Total | |

PROPOSAL

A Bidder's Bond, Certified or Cashier's Check is enclosed in the amount of \$ _____, as required.

STATE OF _____)
) SS:
COUNTY OF _____)

_____ ; of lawful age, being first duly sworn, upon his oath, deposes and says, that he executed the accompanying bid on behalf of the bidder named therein for the construction of the above improvement in BEAVER COUNTY, OKLAHOMA, that he had lawful authority so to do and that the bidder has not been a party to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding; or with any State or County official or employee as to quantity, quality, or price in the prospective contract, or any other terms of said prospective contract; or in any discussions between bidders and any State or County officials concerning exchange of money or other thing of value for special consideration in the letting of a contract; said bidder has neither directly nor indirectly entered into any agreement, express or implied, with any bidder or bidders, having for its object the controlling of the price or amount of such bid or bids, the limiting of the bids or bidders, the parceling or farming out to any bidder or bidders, or other persons of any part of the contract or any part of the profits thereof and that he has not and will not divulge the sealed bid on such public improvement to any person whatsoever, except those having a partnership or other financial interest with him in said bid or bids, until after the sealed bid or bids are opened.

If partnership, give name and address of each partner

By: _____

Address: _____

Incorporated under the laws of the State of: _____

Subscribed and sworn to before me this _____ day of _____, 20_____.

(SEAL)

Notary Public
My Commission Expires:

(if none, so state)

Further, Affiant saith not.

Signature of Authorized Agent

Title (printed)

Subscribed and sworn to before me this _____ day of _____, 20_____.

(SEAL)

My commission expires:

Notary Public

CONSTRUCTION CONTRACT

This Contract is made and entered into this _____ day of _____, 20____, by and between Beaver County, Oklahoma hereinafter called "County" and _____, a(n) _____, hereinafter called "Contractor."

WITNESSETH

WHEREAS, in accordance with the state law and the Public Competitive Bidding act of 1974, 61 Okla. Stat. §§ 101 et seq. (hereinafter collectively referred to as "state law"), the County has caused to be prepared certain plans, specifications, and other bidding documents (the "Bidding Documents") for the work hereinafter described; and,

WHEREAS, in accordance with state law, the County has approved and adopted all of said Bidding Documents and has caused an Invitation to Bid to be given and advertised and has received sealed bids for the furnishing of all labor and materials for:

**Beaver County
Materials for Bridge Project
Bridge over Indian Creek
04E0340N1570006**

as outlined and set out in the Bidding Documents and in accordance with the terms and provisions of this Contract; and,

WHEREAS, Contractor, in response to said Invitation to Bid, has submitted to the County, in the manner and at the time specified, a sealed bid in accordance with the terms of the Bidding Documents; and,

WHEREAS, the County, in the manner provided by state law, has publicly opened, examined and canvassed the bids submitted and has determined and declared the above-named Contractor to be the lowest responsible bidder on the above described project; and,

WHEREAS, the County has duly awarded this Contract to said Contractor, for the sum named in the bid, to-wit:

Dollars and Cents spelled out here (\$.).

NOW THEREFORE, in consideration of the mutual promises, covenants, and conditions herein stated and in consideration of the mutual benefits, which will accrue to the parties, the sufficiency of which is acknowledged by the parties, the parties agree as follows:

1. Incorporation of Bidding Documents. This Contract hereby incorporates, as if fully set out herein, the Plans, Specifications, General Provisions, Special Provisions, Contractor's Proposal and any and all Addendums issued. All of these documents have been provided to and/or by the Contractor and are on file in the Office of the County Clerk. Hereinafter, these documents shall be collectively referred to as "Bidding Documents."

2. Engagement of Contractor. The County hereby engages Contractor to perform certain construction services for the benefit of the County. Contractor accepts such engagement pursuant to the terms and conditions set forth herein.

3. Scope of Engagement. Contractor shall, in a good and first-class, workmanlike manner, at its own cost and expense, furnish all labor, materials, tools and equipment required to perform and complete said work in strict accordance with the Bidding Documents, with the following additions and/or exceptions: (if none, so state.)

(NONE)

4. Payments to Contractor. The County shall make payments to the Contractor in the following manner:

a. On or about the first (1st) day of each month, the Engineer, or other appropriate person, will make accurate estimates of the value, based on contract prices, of the work done and materials incorporated in the work and of materials suitably stored at the site thereof during the preceding calendar month. The Contractor shall furnish to the Engineer such detailed information as he may request to aid him as a guide in the preparation of the monthly estimates. Ninety-five percent (95%) of such estimated sum shall be paid to the Contractor within five (5) days after the first regularly scheduled meeting of the County of the following month.

b. On completion of the work, but prior to the acceptance thereof by the County, it shall be the duty of the Engineer for the County, or other appropriate person, to determine that said work has been completely and fully performed in accordance with this Contract and all incorporated documents; and upon making such determination, said official shall make his final certification to the County.

c. The Contractor shall furnish proof that all claims and obligations incurred by him in connection with the performance of said work have been fully paid and settled; said information shall be in the form of an affidavit, which shall bear the approval of the surety on the contract bonds, for payment of the final estimate to the Contractor; thereupon, the final estimate (including retainage, but less any liquidated damages), will be approved and paid, within five (5) days after the first regularly scheduled meeting of the County of the following month.

5. Bargaining. The County and the Contractor have had the opportunity to seek independent legal counsel before entering into this Contract. The language of this Contract shall be construed simply, according to its fair meaning, and not strictly for or against either party.

6. Third Party Beneficiaries. Nothing in this Contract, expressed or implied, is intended to confer upon any person other than the parties hereto and their respective assigns, any rights or remedies under or by reason of this Contract, except as provided expressly herein.

6. Notices. Whenever a notice is required to be given in writing and under the terms of this Contract, or any extension hereunder, such notice shall either be hand-delivered or mailed by certified mail, return receipt requested, and directed to the respective parties at the following addresses:

7. If to the County:

If to Contractor:

Beaver County Commissioners

Beaver County Courthouse, 111 Second St.

Beaver, OK 73932

or at such other address as a party shall specify by like notice to the other party hereto. Notices shall be effective on the date of delivery.

8. Counterparts. This Contract may be executed in any number of counterparts, and when each party has signed and delivered to the other at least one (1) such counterpart, each counterpart shall be deemed an original, and when taken together with other signed counterparts, shall constitute one (1) agreement; provided, however, this Contract shall not be binding upon the parties hereto until signed by all of the parties.

9. Integration and Amendments. This Contract constitutes the entire agreement between the parties and may not be amended, altered, modified or changed in any way except in writing signed by all parties to this Contract and which specifically references this Contract. There are no other agreements, representations or warranties, whether oral or written, regarding the subject matter of this Contract. No course of dealings involving the parties hereto and no usage of trade shall be relevant or admissible to interpret, supplement, explain or in any way vary any of the terms expressly set forth in this Contract. Any amendment to this Contract shall be attached to this Contract and all of the terms in this Contract not addressed in the amendment shall remain in full force and effect.

10. Binding Effect. This Contract binds the parties and any successors and assigns of the parties.

11. Severability. If any one or more of the sections, sentences, clauses, or parts be held invalid for any reason, the invalidity of such section, sentence, clause, or part shall not affect nor prejudice the applicability and validity of any other provision of this Contract.

IN WITNESS WHEREOF, the parties hereto have caused this Contract to be executed on the day and year last written below.

Date: _____

Beaver County Commissioners,

Chairman

(SEAL)

ATTEST:

County Clerk

Approved as to form:

District Attorney

Date: _____

a(n) _____

Signature

Printed Name

Title

ATTEST:

Secretary and/or Witness

State of Oklahoma)
) ss.
County of _____)

_____, of lawful age, being first duly sworn, on oath, says that (s)he is the agent authorized by the Contractor to submit the above Contract to Beaver County. Affiant further states that Contractor has not paid, given or donated, or agreed to pay give or donate to any officer or employee of Beaver County, any money or other valuable thing, either directly or indirectly, in the procuring of this Contract.

Signature

Printed Name/Title

Subscribed and sworn to before me this _____ day of _____, _____.

(SEAL)

Notary Public

My Commission Expires: _____

My Commission Number: _____

MAINTENANCE BOND

KNOW ALL MEN BY THESE PRESENT, that _____, Principal, and _____, a corporation organized under the laws of the State of _____, and authorized to transact business in the State of Oklahoma, as Surety, are held firmly bound unto Beaver County, in the penal sum of _____ Dollars (\$_____) in lawful money of the United States of America, said sum being the contract price, for the payment of which, well and truly to be made, we bind ourselves and each of us, our heirs, executors, administrators, trustees, successors, and assigns, jointly and severally, firmly by these presents.

Dated this _____ day of _____, 20_____.

The condition of this obligation is such that:

WHEREAS, said Principal entered into a written contract with Beaver County, dated _____, 20_____, for:

**Beaver County
Materials for Bridge Project
Bridge over Indian Creek
04E0340N1570006**

all in compliance with the plans and specifications therefor, made a part of said contract and on file in the Office of the County Clerk, located in the County Courthouse Building in Beaver, Oklahoma.

NOW, THEREFORE, if said Principal shall pay or cause to be paid to Beaver County, Oklahoma, all damage, loss, and expense which may result by reason of defective materials and/or workmanship in connection with said work, occurring within a period of **one (1) year** from and after acceptance of said project by Beaver County, Oklahoma; then this obligation shall be null and void, otherwise to be and remain in full force and effect.

It is further expressly agreed and understood by the parties hereto that no changes or alterations in said contract and no deviations from the plan or mode of procedure herein fixed shall have the effect of releasing the sureties, or any of them, from the obligations of this bond.

IN WITNESS WHEREOF, the said Principal has caused these presents to be executed in its name and its corporate seal to be hereunto affixed by its duly authorized officers, and the same Surety has caused these presents to be executed in its name and its corporate seal to be hereunto affixed by its attorney-in- fact, duly authorized so to do, the day and year first above written.

Principal:

By: _____

Title

(SEAL)
ATTEST:

Secretary

Surety:

By: _____

Attorney-in-Fact

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENT, that _____,
Principal, and _____, a corporation organized under the laws of the State of
, and authorized to transact business in the State of Oklahoma, as Surety, are held firmly bound Beaver
County, Oklahoma, in the penal sum of _____ Dollars (\$ _____)
in lawful money of the United States of America, for the payment of which, well and truly to be made, we
bind ourselves and each of us, our heirs, executors, administrators, trustees, successors, and assigns,
jointly and severally, firmly by these presents.

Dated this _____ day of _____, 20____.

The condition of this obligation is such that:

WHEREAS, said Principal entered into a written contract with Beaver County Oklahoma,
dated _____, 20____, for:

**Beaver County
Materials for Bridge Project
Bridge over Indian Creek
04E0340N1570006**

all in compliance with the plans and specifications therefor, made a part of said contract and on file in the
Office of the County Clerk, located in the County Courthouse Building in Beaver, Oklahoma.

NOW, THEREFORE, if said Principal shall in all particulars, well, truly, and faithfully perform and
abide by said contract and each and every covenant, condition, and part thereof and shall fulfill all
obligations resting upon said principal by the terms of said contract and specifications and if said principal
shall protect and save harmless Beaver County, Oklahoma from any pecuniary loss resulting from the
breach of any of the items, covenants and conditions of said contract resting upon said principal, then this
obligation shall be null and void, otherwise to be and remain in full force and effect.

It is further expressly agreed and understood by the parties hereto that no changes or alterations in
said contract and no deviations from the plan or mode of procedure herein fixed shall have the effect of
releasing the sureties, or any of them, from the obligations of this bond.

IN WITNESS WHEREOF, the said Principal has caused these presents to be executed in its name
and its corporate seal to be hereunto affixed by its duly authorized officers, and the same Surety has caused
these presents to be executed in its name and its corporate seal to be hereunto affixed by its
attorney-in-fact, duly authorized so to do, the day and year first above written.

Principal:

By: _____
Title

(SEAL)
ATTEST:

Secretary

Surety:

By: _____
Attorney-in-Fact

STATUTORY BOND

KNOW ALL MEN BY THESE PRESENT, that _____,
Principal, and _____, a corporation organized under the laws of the State of
, and authorized to transact business in the State of Oklahoma, as Surety, are held firmly bound unto Beaver
County, Oklahoma, in the penal sum of _____ Dollars (\$ _____)
in lawful money of the United States of America, for the payment of which, well and truly to be made, we
bind ourselves and each of us, our heirs, executors, administrators, trustees, successors, and assigns,
jointly and severally, firmly by these presents.

Dated this _____ day of _____, 20_____.

The condition of this obligation is such that:

WHEREAS, said Principal entered into a written Contract with Beaver County Oklahoma,
dated _____, 20_____, for:

**Beaver County
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all in compliance with the plans and specifications therefor, made a part of said contract and on file in the
Office of the County Clerk, located in the County Courthouse Building in Beaver, Oklahoma.

NOW, THEREFORE, if said Principal shall fail or neglect to pay all indebtedness incurred by said
Principal or subcontractors of said Principal who performs work in the performance of such contract, for
labor and materials and repairs to and parts of equipment used and consumed in the performance of said
contract within thirty (30) days after the same becomes due and payable, the person, firm, or corporation
entitled thereto may sue and recover on this bond, the amount so due and unpaid.

It is further expressly agreed and understood by the parties hereto that no changes or alterations in
said contract and no deviations from the plan or mode of procedure herein fixed shall have the effect of
releasing the sureties, or any of them, from the obligations of this bond.

IN WITNESS WHEREOF, the said Principal has caused these presents to be executed in its name
and its corporate seal to be hereunto affixed by its duly authorized officers, and the same Surety has caused
these presents to be executed in its name and its corporate seal to be hereunto affixed by its
attorney-in-fact, duly authorized so to do, the day and year first above written.

Principal:

By:

Title

(SEAL)
ATTEST:

Secretary

Surety:

By:

Attorney-in-Fact

NOTICE TO PROCEED

TO:

FROM: Beaver County Commissioners, Beaver County, Oklahoma

YOU ARE HEREBY NOTIFIED that all contract documents have been executed and accepted in relation to the contract on

**Beaver County
Materials for Bridge Project
Bridge over Indian Creek
04E0340N1570006**

entered into on the ___ day of _____, 20 ____, by and between the County and

_____ and that work may now be commenced in accordance with said Contract. With a contract time of **120** calendar days, the completion date is the ___ day of _____, _____.

DATED at Beaver County, Oklahoma this _____ day of _____, 20____.

Beaver County Commissioners, Beaver County, Oklahoma

By: _____
Chairman

cc: County Clerk

INVOICE AFFIDAVIT

STATE OF _____)
) SS.
COUNTY OF _____)

The undersigned (architect, contractor, supplier, engineer, or supervisory official) of lawful age, being first duly sworn, on oath says that this invoice, claim or contract is true and correct. Affiant further states that the work, services, or materials as shown by this invoice or claim have been completed or supplied in accordance with the plans, specifications, orders or requests furnished to the affiant. Affiant further states that (s) he has made no payment, given or donated or agreed to pay, give or donate either directly or indirectly to any elected official, officer or employee of the State of Oklahoma, of money or any other thing of value to obtain payment or the award of this contract.

**Beaver County
Materials for Bridge Project
Bridge over Indian Creek
04E0340N1570006**

Project Name

Project No.

Signature - Contractor or Supplier

Company Name (Print or Type)

Address

City, State, Zip

Subscribed and sworn to before me this _____ day of _____, 20_____.

_____, Notary Public

My Commission Expires: _____

GENERAL NOTES

The road will be closed to traffic during construction of the bridge. Type III barricade and advance warning signs shall be placed on the road at least 1/2 mile in advance of the construction zone and at least 100 feet in advance of the bridge site. The county shall be responsible for construction zone and advance warning signs, including but not limited to, barricades, lights, etc. according to the standards set forth in the Manual on Uniform Traffic Control Devices, 2009 Edition. All cost of necessary items for construction signing will be included in other items of work. All construction and materials shall be in accordance with the 2009 Oklahoma Standards Specifications for Highway Construction.

Equipment for driving piles shall meet the requirements of Section 514.03 of the Standard Specifications. Length of piling is estimated to be 40'. Piling under bridge seat shall have a spacing of 20 tons. Piling bulldoze, if required, will be paid for at the unit price bid for steel piling.

Bidders shall be responsible for the construction of the bridge using materials provided by the county.

Bidders may bid on the 50' steel beam type bridge shown on the plans or may bid other alternate types of bridge structures provided they meet the approval of the Engineer and the County Commission and provide a detailed description of the proposed bridge structure. The bid shall include features on shown on the plans, if a bridge design different from those shown, in the plans of the bid. The County Commission reserves the right to accept or reject a proposed bridge design. The County Commission reserves the right to reject any alternate type bridge or alternate design shown on the plans.

The bid is good until the completion of the project.

The Top of Deck elevation shall be approximately 12.5 feet above the finished elevation of the creek.

All material shall be new and delivered to the project site.

The new bridge alignment is to be approved by the County Commissioner or the Engineer.

The contractor shall cut the beams to length at the Beaver County District 1 shop prior to the county delivering the beams to the project site.

CONSTRUCTION NOTES

- (1) QUANTITY CALCULATED AT 60' ASSUMING 20' PIECES, INCLUDES 6' FOR WASTE.
- (2) QUANTITY CALCULATED AT 100' ASSUMING 20' PIECES, INCLUDES 0' FOR WASTE.
- (3) QUANTITY CALCULATED AT 340' ASSUMING 20' PIECES, INCLUDES 31' FOR WASTE.
- (4) QUANTITY CALCULATED AT 60' ASSUMING 20' PIECES, INCLUDES 4' FOR WASTE.
- (5) QUANTITY CALCULATED AT 75' ASSUMING 20' PIECES, INCLUDES 11' FOR WASTE.
- (6) QUANTITY CALCULATED AT 380' ASSUMING 20' PIECES, INCLUDES 44' FOR WASTE.
- (7) QUANTITY CALCULATED AT 140' ASSUMING 20' PIECES, INCLUDES 22' FOR WASTE.
- (8) QUANTITY CALCULATED AT 9,420' ASSUMING 20' PIECES, INCLUDES 760' FOR WASTE.
- (9) BOLSTERS ASSUMED TO BE 5' LONG.
- (10) THE PAY ITEM "TUBULAR RAIL" IS TO INCLUDE ALL HARDWARE REQUIRED TO ATTACH THE TWO 12 GA. W BEAM MEMBERS WELDED AS SHOWN IN STANDARD TR-2. TO BE SUPPLIED BY COUNTY AND INSTALLED BY CONTRACTOR.
- (11) TO BE SUPPLIED BY COUNTY AND INSTALLED BY CONTRACTOR.
- (12) QUANTITY IS ESTIMATED AS 74 SHEETS OF 1'-7 5/8" WIDE X 20' LONG.
- (13) THE PAY ITEM "DECK FORM" IS TO BE PRIME MATERIAL MEETING PLAN SPECIFICATIONS. QUANTITY IS ESTIMATED AS 34 SHEETS OF 14' LONG X 3' WIDE.
- (14) QUANTITY CALCULATED AT 120' ASSUMING 20' PIECES, INCLUDES 22' FOR WASTE.
- (15) QUANTITY CALCULATED AT 39 C.Y., INCLUDES 5 C.Y. FOR WASTE. CLASS AA CONCRETE SHALL INCLUDE THE COST OF BOTH PURCHASING AND PLACING THE CONCRETE.

RESPONSIBILITIES OF COUNTY FORCES

Making and retaining force if required.
 Obtaining right-of-way.
 Obtaining location of utilities, if necessary.
 Providing approach beyond bridge ends.
 Providing 10 ea.-40'x380'x50' long Beams to the project site.
 Providing 4-beam rail, 4-beam End Sections, and Tubular Rail to the project site.

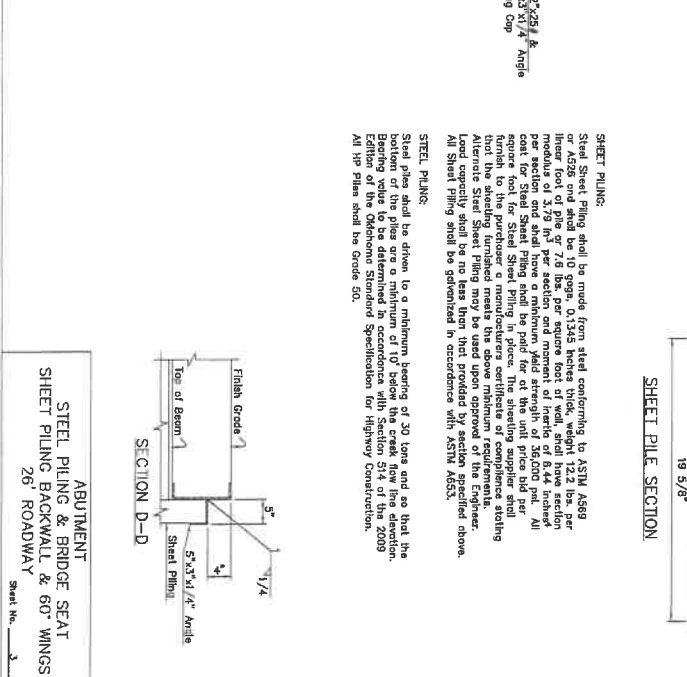
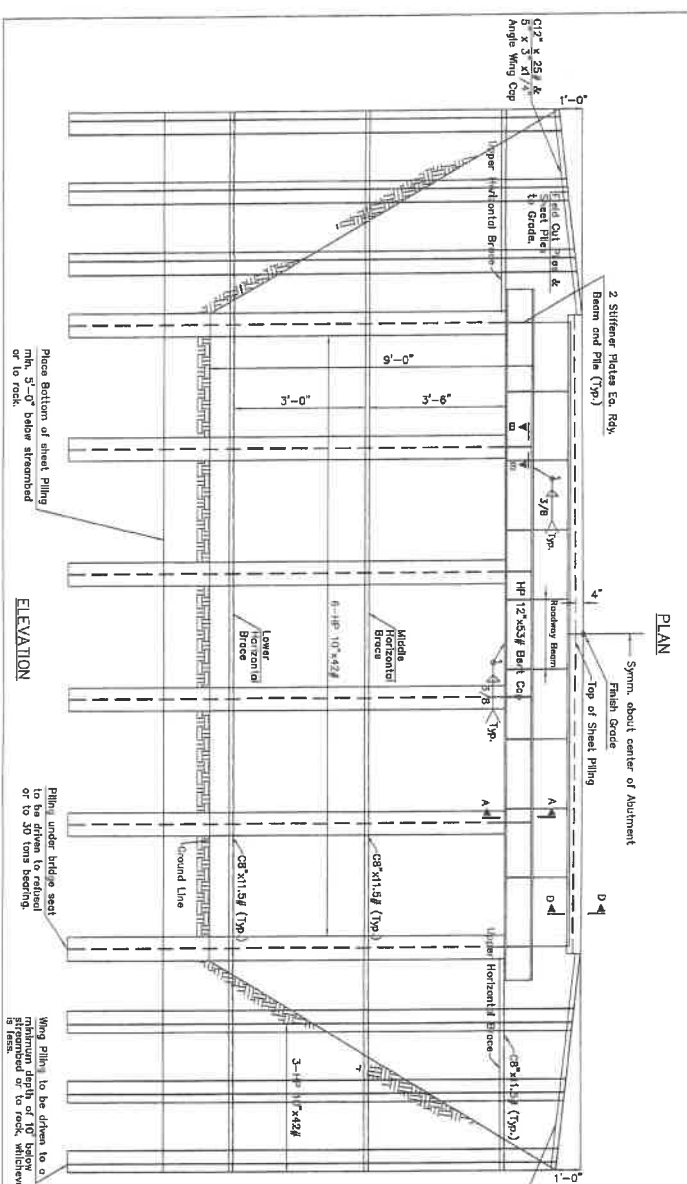
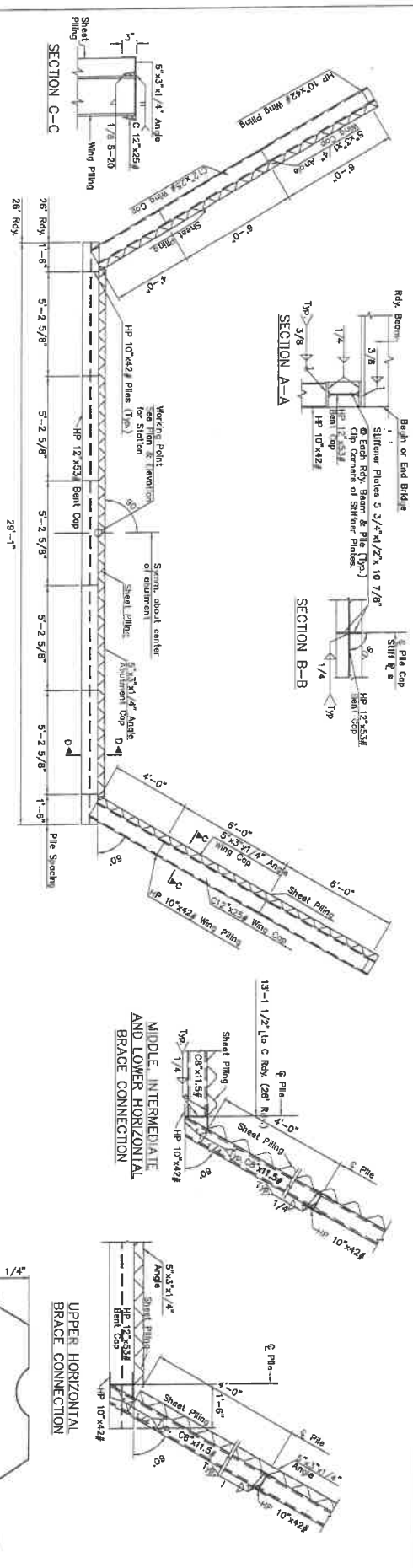
Contractor to call Okla 1-800-822-8543 for utility location before construction begins.

DESIGN DATA

CONCRETE: CLASS "AA"
 REINFORCING STEEL: (GR. 60)
 STRUCTURAL STEEL: (A 36)
 LINDERS: 20# (92AMS)
 DESIGN--ASHOTO Standard Specifications for Highway Bridges 1999 and American Welding Society Specifications

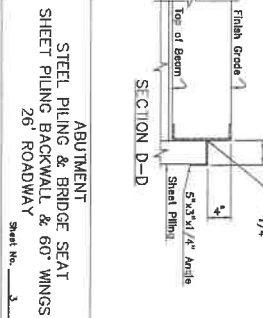
| P A Y Q U A N T I T I E S | | | |
|---|-----------|----------|--|
| ITEM | UNIT | QUANTITY | |
| BRIDGE (A)- 50' LONG X 27' 1" OUT TO OUT SKEW 90° | | | |
| 5 3/4" X 1/2" FLAT Bent Cap Stirrer | (1) L.F. | 60.00 | |
| C7 X 9.5# CHANNEL, Deck Sides | (2) L.F. | 100.00 | |
| C8 X 11.5# CHANNEL, Backseat Bending | (3) L.F. | 340.00 | |
| C10 X 20# CHANNEL, Deck Ends | (4) L.F. | 60.00 | |
| C12 X 20# CHANNEL, Wing Cap | (5) L.F. | 78.00 | |
| 5" X 3" X 1/4" ANGLE | (7) L.F. | 380.00 | |
| 5" X 3" X 1/4" ANGLE | (7) L.F. | 140.00 | |
| REBAR #4 | (8) L.F. | 9420.00 | |
| SLAB BOLSTERS, 1" | (9) EA. | 84.00 | |
| SLAB BOLSTERS, 2" | (9) EA. | 84.00 | |
| REBAR TIES, 6" | ROLL | 1.00 | |
| WELD STUDS, 5/8" X 6" | EA. | 154.00 | |
| TUBULAR RAIL | (10) L.F. | 100.00 | |
| W-BEAM END SECTION (FLARED) | (11) S.F. | 4.00 | |
| BACKWALL SHEETING, INTERLOCKING GALV. 10 GA. | (12) S.F. | 2421.00 | |
| GALV. DECK FORM | (13) S.F. | 1,428.00 | |
| W 8" X 20# QUADRANT POST | (14) L.F. | 120.00 | |
| CLASS AA CONCRETE | (15) C.Y. | 38.00 | |
| HP10" X 42#, WING PILES (12 PILES X 30') | L.F. | 360.00 | |
| HP10" X 42#, ALIGNMENT PILES (12 PILES X 40') | L.F. | 480.00 | |
| HP12" X 53#, CAPS (2 CAPS X 30') | L.F. | 60.00 | |
| REMOVAL OF EXISTING 10-FOOT DRAINAGE STRUCTURE | LSM | 1.00 | |

GENERAL NOTES



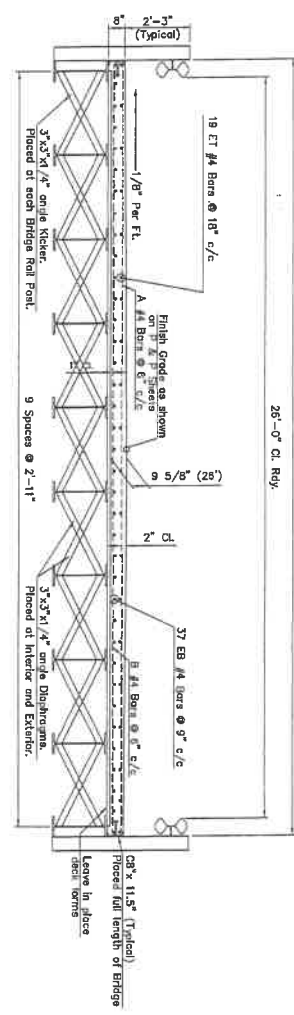
SHEET PILING

Steel sheet piling shall be made from steel conforming to ASTM A589 for the upper portion and ASTM A572 for the lower portion. The minimum yield strength shall be 36 ksi for the upper portion and 50 ksi for the lower portion. The minimum tensile strength shall be 58 ksi for the upper portion and 65 ksi for the lower portion. The minimum elongation shall be 20% for the upper portion and 22% for the lower portion. The minimum thickness shall be 1/2 inch for the upper portion and 3/4 inch for the lower portion. The minimum width shall be 19 5/8 inches for the upper portion and 24 inches for the lower portion. The minimum depth shall be 10 feet for the upper portion and 12 feet for the lower portion. The minimum spacing shall be 12 feet for the upper portion and 10 feet for the lower portion. The minimum embedment shall be 5 feet for the upper portion and 6 feet for the lower portion. All sheet piling shall be galvanized in accordance with ASTM A653.



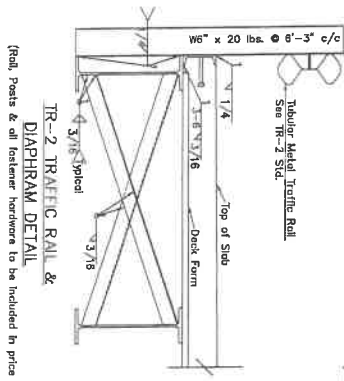
ABUTMENT
STEEL PILING & BRIDGE SEAT
SHEET PILING BACKWALL & 60\"/>

27'-1" Deck Width
26'-0" Cl. Rdy.



BRIDGE SECTION
Diaphragms at ends and 1/3 points of 50' span.

The minimum lap splice length for #5 reinforcing steel bars shall be 2'-5" and the minimum lap splice length for #4 reinforcing steel bars shall be 1'-8". The lap splice shall be staggered.



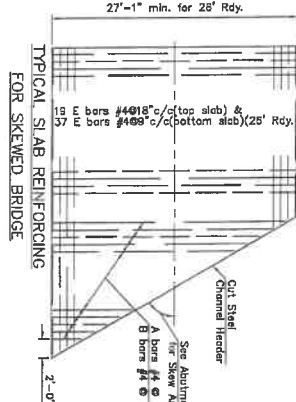
(Rail, Posts & all fastener hardware to be included in price bid for handrail)



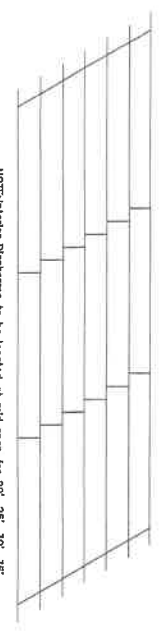
METAL DECK FORM DETAIL

Deck Form shall be tough, tapered cold rolled steel, sheet, formed to a corrugated rib pattern with a maximum depth of 1 5/16". The steel shall have an average minimum yield strength of not less than 80,000 psi. Steel shall conform to AISC, Grade 50 with zinc coating conforming to ASTM A523, G90. Deck Form shall have a minimum thickness of 1/4". Deck Form shall be placed with ribs perpendicular to beams and with side laps up, allow 3/8" for end laps and center all and laps over beams. Do not allow bottom steels to extend beyond edge of support flange. Install adjacent rows end to end, side laps over corrugation ribs with previously placed section.

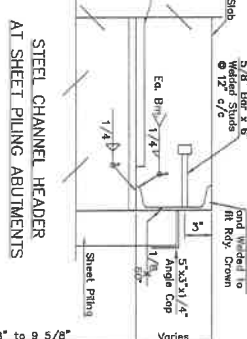
Deck Form material shall be electric arc welded to the supporting steel beams and adjoining deck sheets in accordance with manufacturer's specifications. Weld shall not exceed 12" on center at end lap joints and 18" on center on beams. All skew cutting shall be done in the field.



TYPICAL SLAB REINFORCING FOR SKEWED BRIDGE

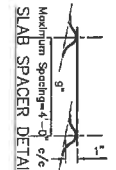
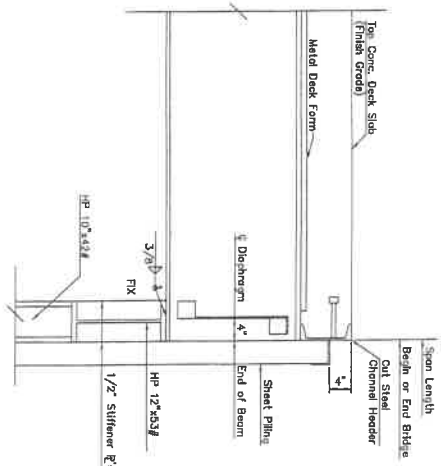


DIAPHRAM LOCATIONS—SKEWED BRIDGE



STEEL CHANNEL HEADER AT SHEET PILING ABUTMENTS

SHEET PILING ABUTMENTS



DEAD LOAD DEFLECTION DIAGRAM
NOTE: The Contractor shall adjust the Finish grade lines to provide for the Dead Load Deflection.

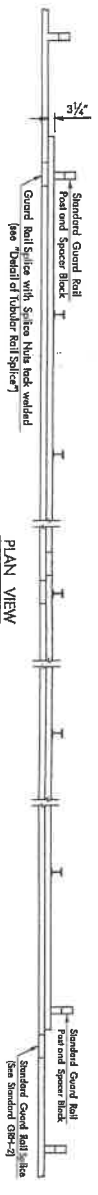
| SPAN | LENGTH OF A & B BARS |
|------------|----------------------|
| 20' to 30' | 26'-9" |
| 35' to 50' | 26'-9" |
| 55' to 70' | 26'-9" |
| 75' to 80' | 28'-8" |

CONCRETE DECK SLAB
Class "AA" Concrete and Maximum Aggregate 1" x All construction shall conform to the 2009 Oklahoma Standard Specifications. Surface of roadway shall slope 1/8" per foot each way from centerline of bridge. Reinforcing steel in the concrete shall be placed in accordance with the following: Reinforcing steel in the top of slab shall be supported on approved continuous steel spacers. The spacing of the spacers shall be a maximum of 4'-0" on center. Bottom layers of reinforcing steel shall be supported on continuous steel spacers or shims. Longitudinal bars shall begin one end 1' from end of slab.

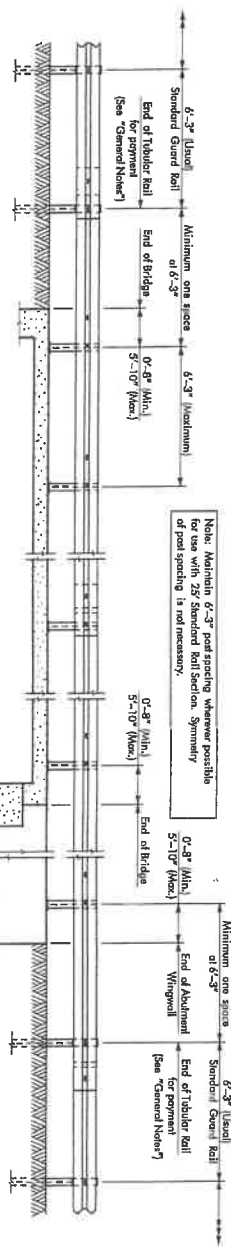
DESIGN DATA

CONCRETE: CLASS "AA" (Gr. 40)
REINFORCING STEEL: (A 36)
STRUCTURAL STEEL: (BEAMS) (A 36)
MINIMUM COMPRESSIVE STRENGTH FOR CLASS AA CONCRETE
NOTE: SHALL BE 4,000 psi AT 28 DAYS.
LOADING HS 20-44

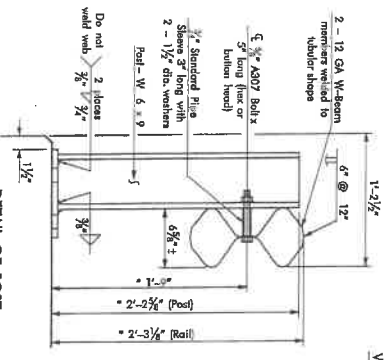
I-BEAM SUPERSTRUCTURE NON-COMPOSITE CONCRETE DECK
26'-0" CL. RDY.
Sheet No. 4



PLAN VIEW

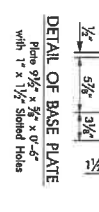


ELEVATION OF RAIL - ROADWAY FACE



DETAIL OF POST

Note: Posts should be welded only at locations shown. NO ADDITIONAL WELDING WILL BE PERMITTED.

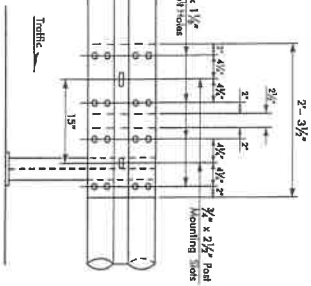


DETAIL OF BASE PLATE

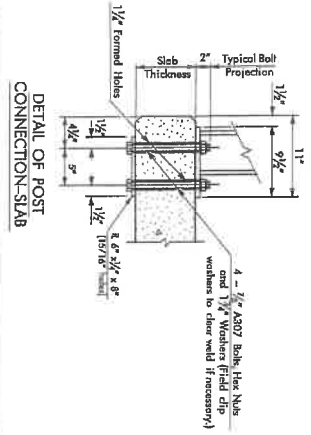
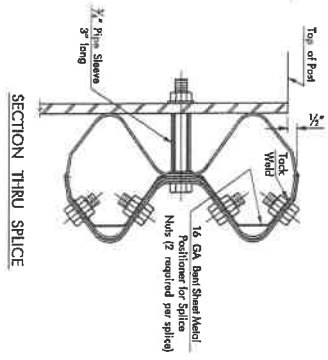
Note: Posts should be welded only at locations shown. NO ADDITIONAL WELDING WILL BE PERMITTED.

ELEVATION VIEW

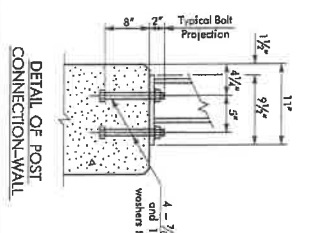
DETAIL OF TUBULAR RAIL SLICE



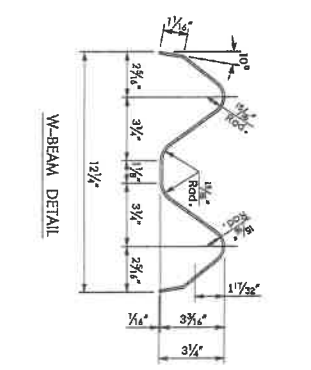
SECTION THRU SLICE



DETAIL OF POST CONNECTION-SLAB



DETAIL OF POST CONNECTION-WALL



W-BEAM DETAIL

GENERAL NOTES:

THIS RAIL HAS BEEN SUCCESSFULLY EVALUATED BY FULL SCALE IMPACT TESTS CONDUCTED IN ACCORDANCE WITH THE FEDERAL ROAD ADMINISTRATION'S STUDY 2-5-78-230 "RIBBED RAIL TO CONTAIN HEAVY TRUCKS AND BUSES, TRUCKS AND TRAILERS". THE TESTS WERE CONDUCTED AT THE TRANSPORTATION RESEARCH INSTITUTE, OCTOBER 1978.

TUBULAR METAL TRAFFIC RAIL SHALL BE SPACED AT 6'-3" CENTERS WHENVER POSSIBLE AND SET PERPENDICULAR TO THE ROADWAY FRONT EDGE AND CROSS SLOPE. APPROXIMATELY 10% OF THE POSTS MAY BE PLACED AT OTHER 6'-3" CENTERS. APPROXIMATELY 10% OF THE POSTS MAY BE PLACED AT OTHER 6'-3" CENTERS. APPROXIMATELY 10% OF THE POSTS MAY BE PLACED AT OTHER 6'-3" CENTERS. APPROXIMATELY 10% OF THE POSTS MAY BE PLACED AT OTHER 6'-3" CENTERS. APPROXIMATELY 10% OF THE POSTS MAY BE PLACED AT OTHER 6'-3" CENTERS.

RAIL POSTS ON THE BRIDGE SHALL BE SPACED AT 6'-3" CENTERS WHENVER POSSIBLE AND SET PERPENDICULAR TO THE ROADWAY FRONT EDGE AND CROSS SLOPE. APPROXIMATELY 10% OF THE POSTS MAY BE PLACED AT OTHER 6'-3" CENTERS. APPROXIMATELY 10% OF THE POSTS MAY BE PLACED AT OTHER 6'-3" CENTERS. APPROXIMATELY 10% OF THE POSTS MAY BE PLACED AT OTHER 6'-3" CENTERS. APPROXIMATELY 10% OF THE POSTS MAY BE PLACED AT OTHER 6'-3" CENTERS.

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| | |
|-------------------------------------|--------|
| APPROVED BY BRIDGE ENGINEER | DATE: |
| OTLADOMKA, DEPT. OF TRANSPORTATION | |
| CODIFYING BRIDGE STANDARD (ENGLISH) | |
| TUBULAR METAL TRAFFIC RAIL | |
| 1789 SPECIFICATIONS | |
| TR-2 | OE |
| | 53-31E |