

CONTRACT DOCUMENTS
AND
PLANS AND SPECIFICATIONS

for

**Grant County
Bridge Project**

CN 207

27E0220N3020003

Prepared for

Grant County,

August 8, 2016

Bid No. 17-2016

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Grant County, Oklahoma
COUNTY PURCHASING OFFICE
 Grant County Courthouse
 Medford, OK 73759

INVITATION TO BID

PLEASE REVIEW TERMS AND CONDITIONS ON REVERSE SIDE RELATING TO SUBMISSION OF THIS BID.				DATE ISSUED August 8, 2016	
Notarized Affidavit completions and signature required on reverse side.				Page 1 of <u>2</u>	
BID NUMBER 17-2016			BID CLOSING DATE AND HOUR September 2 nd , 2016 at 4:00 p.m.		REQUIRED DELIVERY DATE ____ Days after award of Purchase Order
TERMS: Bidding documents shall be obtained from the Grant County Courthouse. Bids will be opened during the commissioners meeting on Tuesday, September 6 th , 2016.				DATE OF DELIVERY:	
Item	Quantity	Unit of Issue	Description	Unit Price	Total
			Bridge CN 207 27E0220N3020003 Pre-Bid Meeting Non-Mandatory Date: August 23, 2016 Time: 10:00 a.m. Location: Grant County District 2 Shop 524 N. Front Street Medford, OK 73759		

TERMS AND CONDITIONS

1. Sealed bids will be opened in the Commissioners Conference Room, Grant County Courthouse, 112 E. Guthrie, Room 104, Medford, OK 73759 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 Grant 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: Grant County Commissioners
Grant 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:

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Bridge Project
CN 207
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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 Grant 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
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PAY QUANTITIES					
Item	Description	Units	Quantity	Unit Price	Total Price
1	Bridge Construction Labor	L. Sum	1.00		
2	Pile Driving beyond plan quantity	L.F.	40.00		

TOTAL BID_____

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 GRANT 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:

NON-COLLUSION AFFIDAVIT
To Accompany Contractor's Bid

STATE OF _____)
) ss:
COUNTY OF _____)

(Contractor's Authorized Agent), of lawful age, being
first duly sworn upon his/her oath, states:

1. I am the duly authorized agent of _____ (Bidder's Company Name), the bidder submitting the attached competitive bid (the "bid"), for the purpose of certifying the facts pertaining to the existence or nonexistence of collusion among bidders or between bidders and municipal officials or employees, as well as facts pertaining to the giving or offering of things of value to government personnel in return for special consideration in the award of any contract associated with the bid attached to this document;
2. I am fully aware of the facts and circumstances surrounding the making of the bid and have been personally and directly involved in the proceedings leading to the submission of such bid;
3. Neither the bidder nor anyone subject to the bidder's direction or control has been a party to: Any collusion among bidders to restrain the freedom of competition by agreement to bid at a fixed price or to refrain from bidding; Any collusion with any county official or employee as to quantity, quality, or price in the bid or contemplated contract, or as to any other terms of such bid or contemplated contract; nor any discussions between bidders and any county official or employee concerning the exchange of money or other thing of value for special consideration in the award of the contemplated contract.

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

BUSINESS RELATIONSHIP AFFIDAVIT

To Accompany Contractor's Bid

STATE OF _____)

) ss:

COUNTY OF _____)

(Contractor's Authorized Agent), of lawful age, being
first duly sworn upon his/her oath, states:

1. I am the duly authorized agent of _____ (Bidder's
Company Name), the bidder submitting the attached competitive bid (the "bid").

2. My position in the above named company is _____.

3. Affiant further states the nature of any partnership, joint venture, or other business
relationship presently in effect, or which existed within one (1) year prior to the date of this
Affidavit, with the architect, engineer, or other party to the project is as follows:

(if none, so state)

4. Affiant further states that any such business relationship presently in effect or which existed
within one (1) year prior to the date of this Affidavit between any official or director of the
architectural or engineering firm or any other party to the project is as follows:

(if none, so state)

5. Affiant further states that the names of all persons who have any such business relationship
and the positions they hold with their respective companies or firms are as follows:

(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 Grant 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:

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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.
7. 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:

If to the County:

If to Contractor:

Grant County Commissioners
Grant County Courthouse, 112 E Guthrie, Rm 104
Medford, OK 73759

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: _____

Grant County Commissioners,

Chairman

Vice Chair

Member

(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 Grant 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 Grant 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 Grant 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 Grant County, dated _____, 20____, for:

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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 Medford, Oklahoma.

NOW, THEREFORE, if said Principal shall pay or cause to be paid to Grant 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 Grant 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 Grant 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 Grant County Oklahoma, dated _____, 20____, for:

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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 Medford, 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 Grant 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
Grant 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 Grant County Oklahoma,
dated _____, 20_____, for:

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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 Medford, 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: Grant County Commissioners, Grant County, Oklahoma

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

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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 _____, 20____.

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

Grant County Commissioners, Grant County, Oklahoma

Chairman

Vice Chair

Member

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.

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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: _____

DESIGN SPEED = 45 MPH

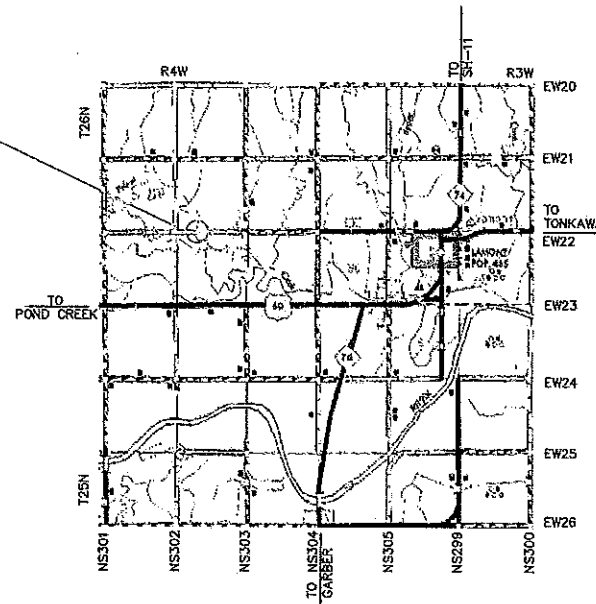
PLAN OF PROPOSED COUNTY BRIDGE FOR GRANT COUNTY BRIDGE PLANS

BRIDGE STRUCTURE NO. 27E0220N3020003
LOCAL NO. 207 NBI NO. N/A

SHEET NO.	DESCRIPTION
1	TITLE
2	SUMMARY OF PAY QUANTITIES & GENERAL NOTES
3	ABUTMENT
4	I-BEAM SUPERSTRUCTURE
5	PIER DETAIL
	TR2-2-00E

SCALES 1" = 50'
1" = 50'
1" = 5'
1" = 5,280'

BRIDGE LENGTH= 79 FT



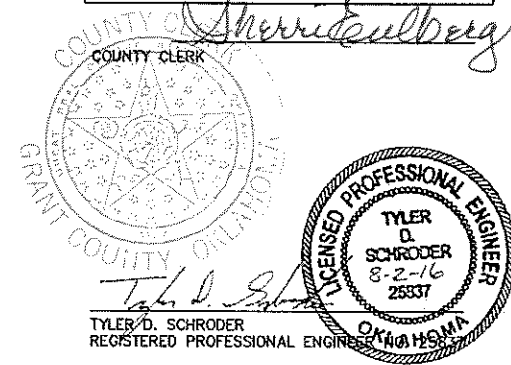
GRANT COUNTY COMMISSIONERS

DATE 08-08-2016

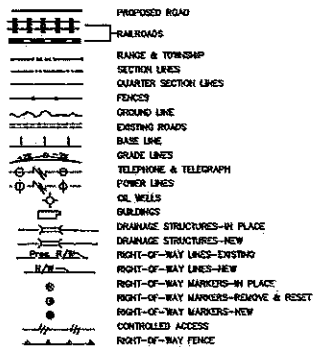
DIST. 1 Max S. Hess

DIST. 2 Gregg B. Gribble

DIST. 3 John W. ...

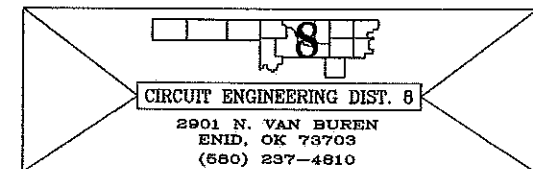


CONVENTIONAL SIGNS



PROJECT LENGTHS BASED ON CRL

BRIDGE LENGTH _ _ _ _ _ 79.00 FT.
PROJECT LENGTH _ _ _ _ _ 79.00 FT.
EXCEPTIONS _ _ _ _ _ NONE
EQUATIONS _ _ _ _ _ NONE



GENERAL NOTES

The road will be closed to traffic during construction of the bridge. Type III barricade and advance warning signs will be required at each end of the bridge construction zone and at road intersections each side of Bridge site. The county shall be responsible for placement and maintenance of all construction signs, barricade, 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 shown is estimated. Piling under bridge seat shall have a capacity of 30 tons. Piling buildups, 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 79" 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 equivalent clear roadway, waterway opening, and safety features as shown on the plans. If a bridge design different from those shown in the plans is low bid the contractor shall submit complete plans and specifications prepared by a registered engineer for review and approval by the County Commission prior to the award of contract. The County Commission reserves the right to reject any alternate type bridge or alternate design features which in their judgement would not provide a structure at this location which is equivalent to that shown on the plans.

The bid is good until the completion of the project.

The Top of Deck elevation should be approximately 18 feet above the Flowline elevation of the creek.

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

All material will be delivered to the project site by the county.

The contractor shall cut all of the beams to the required length and weld two beams together over the pier. All costs associated with this work will be included in the price bid for bridge construction.

CONSTRUCTION NOTES

- (1) THE PAY ITEM "DECK FORM" IS TO BE PRIME MATERIAL MEETING PLAN SPECIFICATIONS. QUANTITY IS ESTIMATED AS 48 SHEETS OF 14' LONG X 3' WIDE.
- (2) 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 TR2-2.
- (3) SHEAR CONNECTORS SHALL BE ADDED TO THE BEAMS TO INSURE A MAXIMUM SPACING OF 12". AN ESTIMATED 321 SHEAR CONNECTERS SHALL BE ADDED TO THE BEAMS.
- (4) QUANTITY IS ESTIMATED AS 74 SHEETS OF 1'-7 5/8" WIDE X 25' LONG.
- (5) QUANTITY CALCULATED AT 60' ASSUMING 20' PIECES, INCLUDES 16' FOR WASTE.
- (6) QUANTITY CALCULATED AT 40' ASSUMING 20' PIECES, INCLUDES 18' FOR WASTE.
- (6) QUANTITY CALCULATED AT 100' ASSUMING 20' PIECES, INCLUDES 4' FOR WASTE.
- (7) QUANTITY CALCULATED AT 500' ASSUMING 20' PIECES, INCLUDES 31' FOR WASTE.
- (8) QUANTITY CALCULATED AT 60' ASSUMING 20' PIECES, INCLUDES 5' FOR WASTE.
- (9) QUANTITY CALCULATED AT 125' ASSUMING 25' PIECES, INCLUDES 7' FOR WASTE.
- (10) QUANTITY CALCULATED AT 1080' ASSUMING 20' PIECES, INCLUDES 110' FOR WASTE.
- (11) QUANTITY CALCULATED AT 140' ASSUMING 20' PIECES, INCLUDES 22' FOR WASTE.
- (12) QUANTITY CALCULATED AT 2360' ASSUMING 20' PIECES, INCLUDES 18' FOR WASTE.
- (13) QUANTITY CALCULATED AT 10,400' ASSUMING 20' PIECES, INCLUDES 15' FOR WASTE.
- (14) 124 - 3" CONTINUOUS SLAB BOLSTERS MAY BE SUBSTITUTED FOR 5" REBAR CHAIRS. BOLSTERS ASSUMED TO BE 5' LONG.
- (15) QUANTITY CALCULATED AT 200' ASSUMING 20' PIECES, INCLUDES 34' FOR WASTE.
- (16) THIS PAY ITEM IS TO BE BID FOR EACH ADDITIONAL FOOT OF HP 10"x42# PILING NEEDED OVER PLAN QUANTITY. QUANTITY ESTIMATED AT 40' ASSUMING A 40' PIECE.

RESPONSIBILITIES OF COUNTY FORCES

Moving and replacing fence if required.
Providing for relocation of utilities, if necessary.
Obtaining right-of-way if required.
Placing guardrail beyond bridge ends.
Placing approach embankments and surface.
Removal of the existing bridge.
Providing 6-33"x130# x 49',65',79',80',81',81' long Beams to the project site.

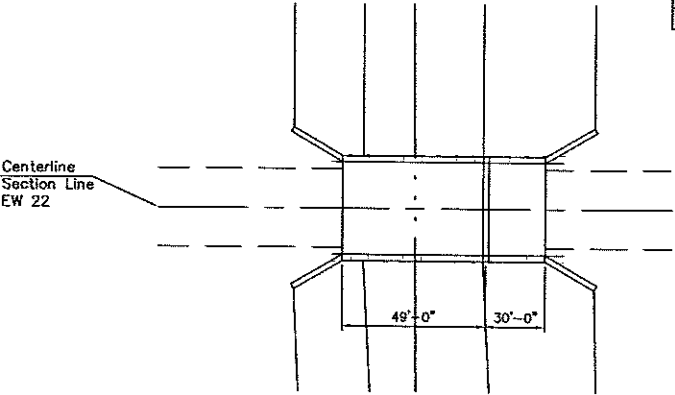
Contractor to call Okie 1-800-522-6543 for utility location before construction begins.

DESIGN DATA

CONCRETE: CLASS "AA"
REINFORCING STEEL: (GR. 60)
STRUCTURAL STEEL: (A 36)
STRUCTURAL STEEL: (BEAMS)
DESIGN--AASHTO Standard Specifications for Highway Bridges 1999 and American Welding Society Specifications

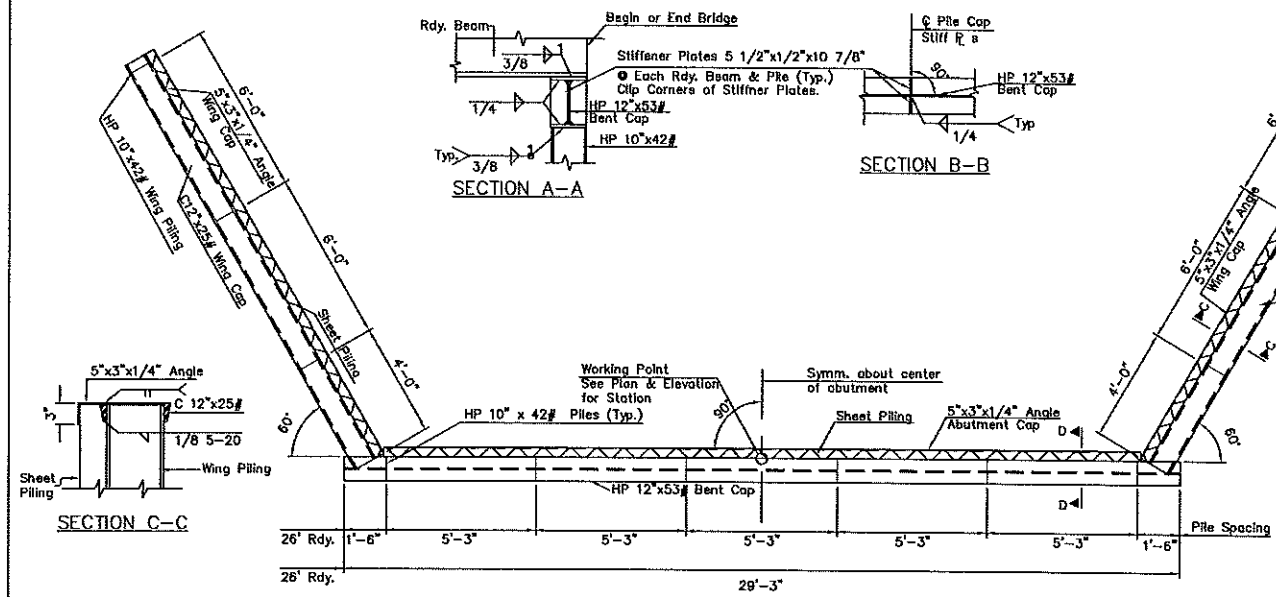
f'c=4,000 psi
fy=60,000 psi
fy=36,000 psi
fy=36,000 psi

P A Y Q U A N T I T I E S		
BRIDGE (A): 49'-30' LONG SPANS X 27' 1" OUT TO OUT' SKEW 90°		
ITEM	UNIT	QUANTITY
HP 10" X 42# (30-40' PCS), Piles	L.F.	1,200.00
HP 10" X 42#, Additional Pile	(10) EA, L.F.	40.00
HP 12" X 53# (2-30' PCS), Bent Caps	L.F.	60.00
HP 14" X 73# (1-30' PC), Pier Cap	L.F.	30.00
5 1/2" X 1/2" FLAT, Bent Cap Stiffener	(8) L.F.	60.00
7" X 1/2" FLAT, Pier Cap Stiffener	(8) L.F.	40.00
C8" X 11.5# CHANNEL, Backwall Bracing	(7) L.F.	500.00
C10" X 15# CHANNEL, Deck Ends	(8) L.F.	60.00
C12" X 25# CHANNEL, Wing Cap	(9) L.F.	125.00
3" X 3" X 1/4" ANGLE	(10) L.F.	1090.00
5" X 3" X 1/4" ANGLE	(11) L.F.	140.00
REBAR, #4	(12) L.F.	2,360.00
REBAR, #5	(13) L.F.	10,400.00
SLAB BOLSTERS, 1"	EA.	124.00
STEEL REBAR CHAIRS, 5"	(14) EA.	168.00
REBAR TIES, 6"	ROLL	2.00
WELD STUDS, 3/4" X 4"	(3) EA.	321.00
WELD STUDS, 5/8" X 6"	EA.	214.00
TUBULAR RAIL	(2) L.F.	160.00
GUARDRAIL ENDS	EA.	4.00
BACKWALL SHEETING, INTERLOCKING GALV. 10 GA.	(4) S.F.	3,026.00
DECK FORM	(1) S.F.	2,016.00
GUARDRAIL POST, W 6" X 20#	(15) L.F.	200.00

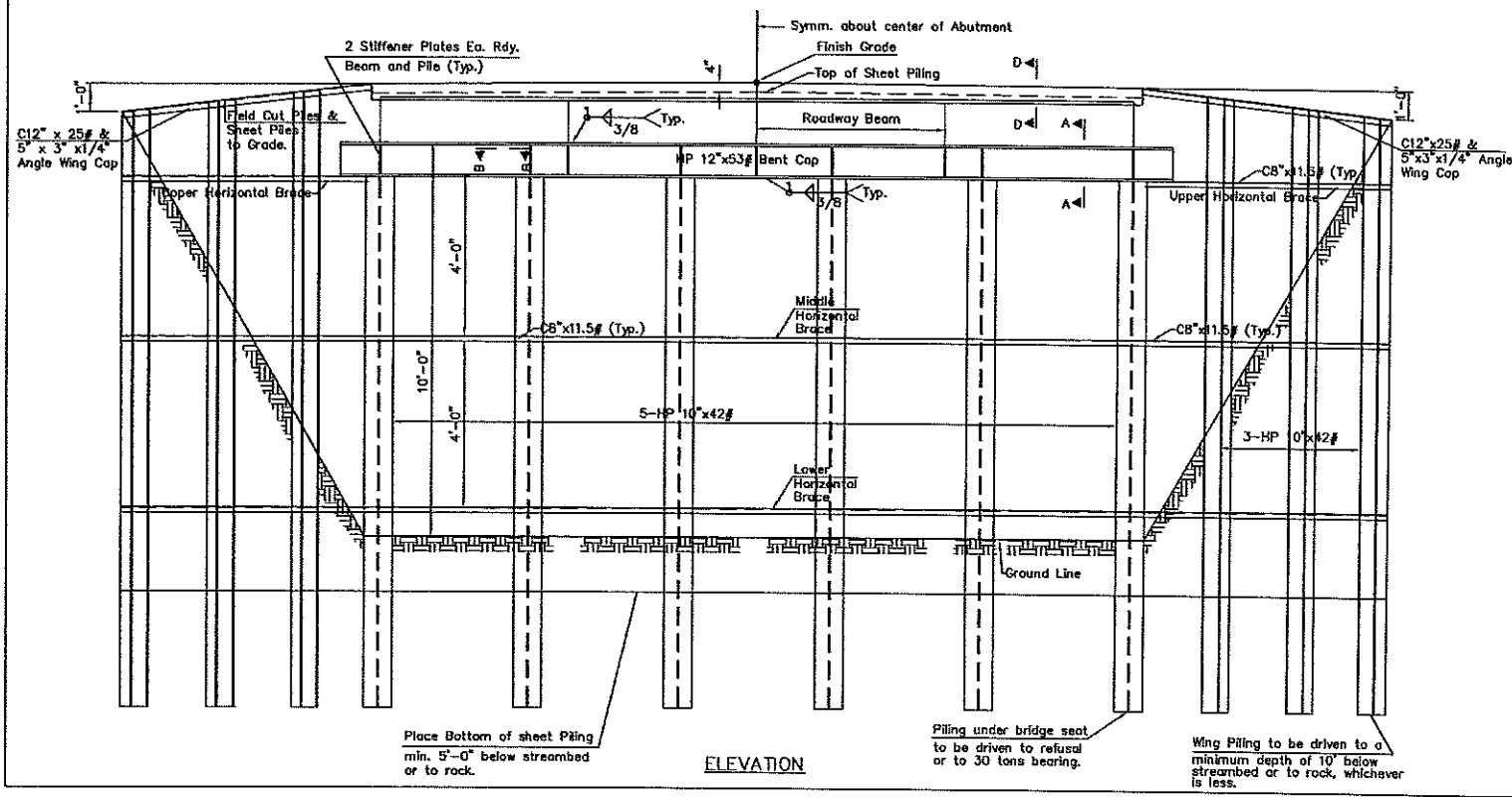
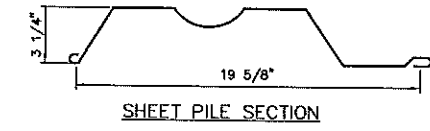
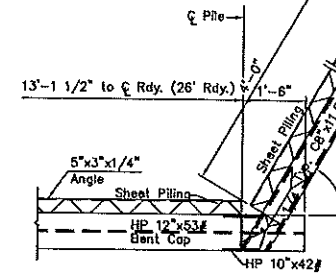


BRIDGE "A"

GENERAL NOTES

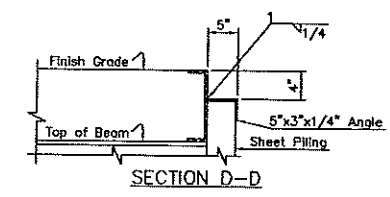


MIDDLE, INTERMEDIATE
AND LOWER HORIZONTAL
BRACE CONNECTION

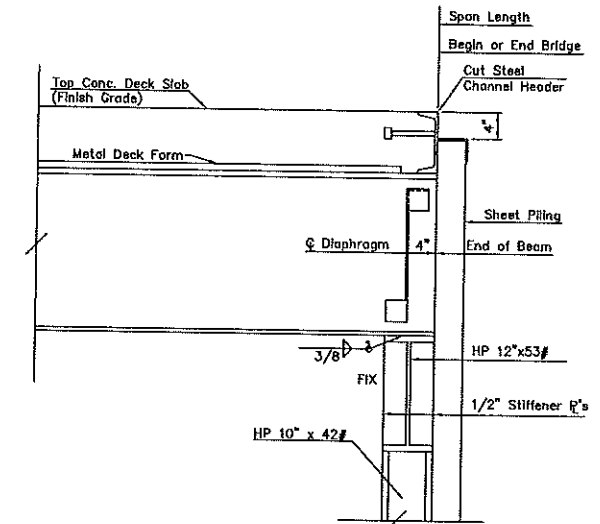


SHEET PILING:
 Steel Sheet Piling shall be made from steel conforming to ASTM A569 or A526 and shall be 10 gage, 0.1345 inches thick, weight 12.2 lbs. per linear foot of pile or 7.8 lbs. per square foot of wall, shall have section modulus of 3.78 in³ per section and moment of inertia of 6.44 inches⁴ per section and shall have a minimum yield strength of 36,000 psi. All cost for Steel Sheet Piling shall be paid for at the unit price bid per square foot for Steel Sheet Piling in place. The sheeting supplier shall furnish to the purchaser a manufacturers certificate of compliance stating that the sheeting furnished meets the above minimum requirements. Alternate Steel Sheet Piling may be used upon approval of the Engineer. Load capacity shall be no less than that provided by section specified above. All Sheet Piling shall be galvanized in accordance with ASTM A653.

STEEL PILING:
 Steel piles shall be driven to a minimum bearing of 30 tons and so that the bottom of the piles are a minimum of 10' below the creek flow line elevation. Bearing value to be determined in accordance with Section 514 of the 2009 Edition of the Oklahoma Standard Specification for Highway Construction. All HP Piles shall be Grade 50.



ABUTMENT
STEEL PILING & BRIDGE SEAT
SHEET PILING BACKWALL & 60' WINGS
26' ROADWAY



W6 x 20 lbs. 6" 7" c/d

Tubular Metal Traffic Roll
See IR-2 Std.

Top of Slab

Deck Form

3-5 3/16

3" x 3" x 1/4" angle deck supports at 4" centers

3- 3/4" # x 4" Long Welded Studs

11.5"

2 spaces
4" = 8"

SHEAR CONNECTOR

Shear Connectors shall be spaced

25'-9" min. for 26' Rdg.

28 E bars #4 @ 17" c/c (top slab) &
28 EB bars #5 @ 17" c/c (bottom slab)

Cut Steel Channel Header

See Abutment Sheet for Skew Angle

A bars #5 @ 6" c/c (top slab)
B bars #5 @ 9" c/c (bottom slab)

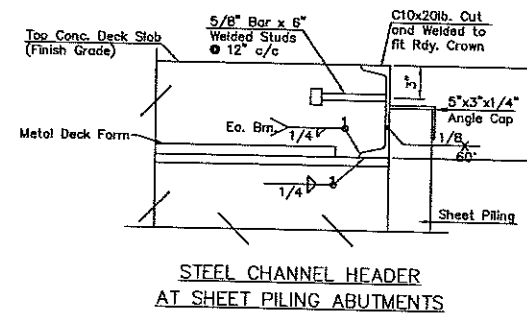
2'-0"

TYPICAL SLAB REINFORCING

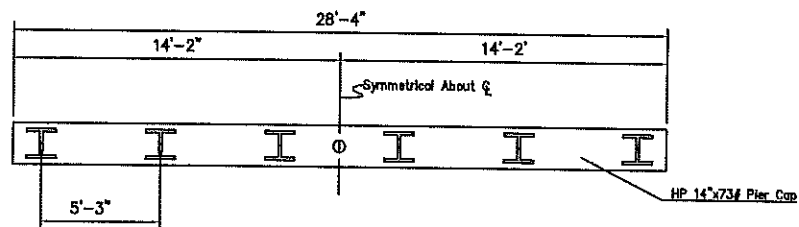
A diagram showing a horizontal beam with a central vertical axis. On either side of the axis, there is a point labeled "C Bmg." with a small circle around the "C".

LENGTH OF A & B BARS	
SPAN	26' CL. RDY.
20' to 30'	26'-9"
35' to 50'	26'-9"
55' to 70'	26'-9"
75' to 80'	26'-9"

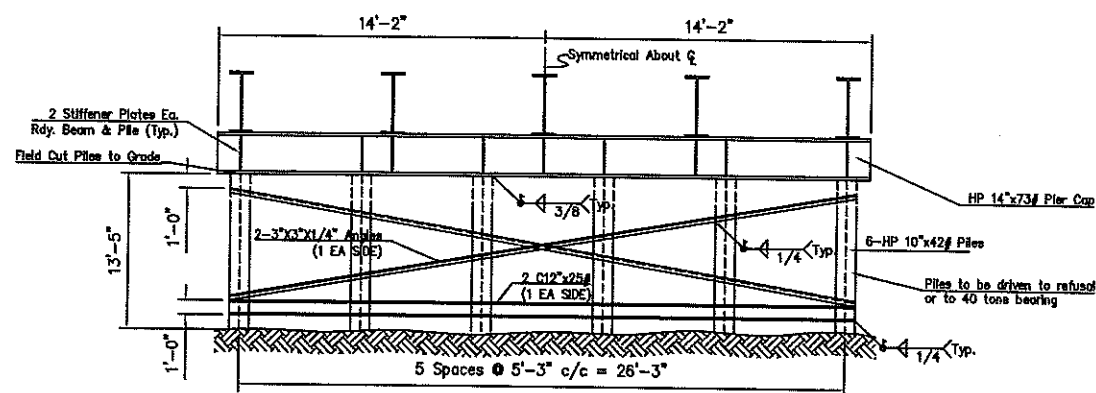
I-BEAM SUPERSTRUCTURE
COMPOSITE
CONCRETE DECK
26' CL. RDY.



DIAPHRAM LOCATIONS—SKEWED BRIDGE

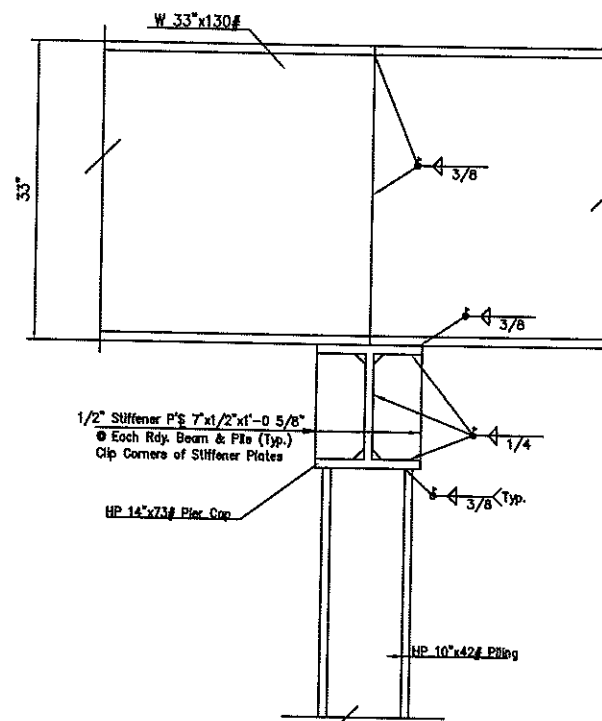


PLAN



ELEVATION

NOTE:
 The Height of the Pier may be adjusted in the field.
 The Height of the Pier may not exceed 1/2 of the Pile Length.
 The Height of the Pier may not exceed 15 feet measured from ground line to the bottom of the Pier Cap.



BEARING ASSEMBLY DETAIL

Design	
Drawn	T.D.S.
Checked	
Approved	
Squad	CEDB

PIER DETAIL

Sheet No. 5

