STARKE COUNTY
53 E. Mound Street
Knox, Indiana 46534

PROJECT SPECIFICATIONS

FOR

BRIDGE NUMBER 36 REPLACEMENT PROJECT

I hereby certify that these plans and specifications were prepared by me, or under by direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Indiana.

Date 7/20/17

Mark E. Wilson
Registered Professional Engineer
State of Indiana No. 80328
NOTICE TO BIDDERS FOR PUBLIC WORKS
PROJECT IN STARKE COUNTY, INDIANA

Notice is hereby given, that the Board of Commissioners of Starke County, Indiana, hereinafter referred to as the Owner, will receive sealed bids for the Bridge Number 36 Replacement Project.

The work for which bids are being requested generally includes: removal of the existing bridge structure; construction of the proposed bridge structure and appurtenances; earthwork; and roadway paving.

Sealed bids are invited and may be delivered or forwarded by registered mail, addressed to the Starke County Board of Commissioners c/o the Starke County Auditor, 53 E. Mound Street, Knox, Indiana 46534, until 4:00 p.m. (Central Daylight Savings Time) on Monday, October 2nd, 2017. Bids received after such time may be rejected. Bids received prior to this time shall be opened and publicly read at the Monday, October 2nd, 2017 Starke County Commissioners’ meeting, which starts at 6:00 p.m. (Central Daylight Savings Time) at 43 E. Mound Street, Knox, Indiana, 46534.

The contract documents will be shared electronically at no cost via Skysite System as provided/hosted by ARC Document Solutions. Following request for the contract documents by the potential bidder, the Engineer will provide appropriate file sharing permissions to view and download these documents. Bidders may request access to the Contract Documents by email to mwilson@jpr1source.com.

Hard copies of the contract documents can be purchased from the local ARC Document Solutions branch (please contact them directly for pricing, etc.). The documents are also available for public inspection at the Starke County Highway Superintendent's office, 3835 East 250 North, Knox, Indiana, 46534.

Neither the Starke County nor its Engineer will be responsible for partial sets of documents so obtained from any other source.

The work to be performed and the bid to be submitted shall include sufficient and proper sums for all general construction, mechanical installation, labor, materials, permits, licenses, insurance, and so forth incidental to and required for the construction of the Project. The Contractor shall submit an itemized bid for the approximate quantities and components of labor and materials to complete the contract. Said bid shall be upon the standard bid sheet used by the Owner, and said sheet must contain an authorized signature of the Contractor, or the bid of the Contractor may, at the discretion of the Owner, be rejected and declared invalid. The bid shall be accompanied by a non-collusion affidavit as required by the statutes of Indiana. Bids shall be included in a sealed envelope, bearing the title of the Project and the name and address of the bidder.

Each bid shall be accompanied by a certified check or acceptable bid bond made payable to the Owner in a sum of not less than ten percent (10%) of the total amount of the bid, which check or bond will be held by the Owner as evidence that the bidder will, if awarded the contract, enter into the same with the Owner upon notification for him to do so within ten (10) days of said notification.

Approved performance and payment bonds guaranteeing faithful and proper performance of the work and materials, to be executed by an acceptable surety company, will be required of the Contractor at the time he executes his contract. The bond will be in the amount of 100% of the
Contract Price and must be in full force and effect throughout the term of the Construction Contract plus a period of twelve (12) months from the date of substantial completion. Liquidated damages in the amount of One Thousand Dollars ($1,000.00) per day of delayed or unsatisfactory completion of the Contract, beyond the agreed upon completion date, shall be paid by the Contractor to the Owner pursuant to the terms and conditions of the written contract ultimately entered into by the successful bidder and Owner.

The Owner reserves the right to reject any bid, or all bids, or to accept any bid or bids, or make such combination of bids as may seem desirable, and to waive any and all informalities in bidding. Any bid may be withdrawn prior to the above scheduled time for the opening of bids or authorized postponement thereof. Any bid received after the time and date specified may be rejected. No bids may be withdrawn after the scheduled closing time for receipt of bids for at least sixty (60) days.

A conditional or qualified Bid will not be accepted. Award will be made to the lowest, responsible and responsive bidder. The lowest responsive and responsible bidder shall be determined by the Owner.

All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction shall apply to the Project throughout.

Bids shall be properly and completely executed on bid forms included in the Specifications. Bids shall include all information requested by Indiana Form 96 (current edition). Under Section III of Form 96, the Bidder shall submit a financial statement. The Bidder shall also submit a statement of experience, a proposed plan or plans for performing the public work, and the equipment that the Bidder has available for the performance of the public work on forms prescribed by the State Board of Accounts. The Owner may make such investigations as deemed necessary to determine the ability of the Bidder to perform the work and the Bidder shall furnish to the Owner all such information and data for this purpose as the Owner may request. The Owner reserves the right to reject any bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the County that such Bidder is properly qualified to carry out the obligations of the Agreement and to complete the work contemplated therein.

Each Bidder is responsible for inspecting the Project site and for reading and being thoroughly familiar with the Contract Documents and Specifications. The failure or omission of any bidder to do any of the foregoing shall in no way relieve any Bidder from any obligation with respect to its Bid.

The Owner is exempt from all federal, state, and local taxes, and will not be responsible for any taxes levied on the Bidders as a result of any contract award.

Board of Commissioners
Starke County, Indiana
Don Binkley
Board President

Published in the Leader of Starke County on September 8 and September 15, 2017.
CONTRACT

THIS AGREEMENT, made as of the ___ day of __________________________, 2017
by and between __________________________ a Corporation organized and existing under the laws
of the State of Indiana, hereinafter called the "Contractor", and Starke County, INDIANA,
hereinafter called the "Owner";

WITNESSETH, that the Contractor and the Owner, for the consideration stated herein,
mutually agree as follows:

For Starke County, Indiana

Article 1. WORK

Bridge Number 36 Replacement Project

Article 2. CONTRACT PRICE  $________________________

Owner shall pay Contractor for performance of the work in accordance with the Contract
Documents in current funds. Where estimated quantities were provided in the itemized bid,
payment shall be made to Contractor for the actual number of units used multiplied by the unit
price bid. Payment shall be as follows:

The Contractor shall be paid progress payments in accordance with verified payment requests
submitted in a timely fashion.

It is agreed that the amount to be paid per each pay request shall in no case exceed ninety
percent (90%) of the value of the work properly performed or for materials or equipment
delivered under the Contract. The remaining ten percent (10%) shall be reserved by the Owner
as part security for the faithful performance and shall become due to the Contractor within sixty-
one (61) days after the date of substantial completion of the work and delivery of the final
certificates to the Engineer and after payment by the Contractor of all claims for labor and
materials furnished in the performance of all work under this Contract. Notwithstanding the
above, however, Owner may require Contractor to submit pay requests in advance of the
performance of the work or material or equipment delivery in order to fully utilize available funds
for the Contract. In the event of any such advanced payment by Owner to Contractor,
Contractor shall continue to submit payment requests in a timely fashion for review and
verification and shall not be entitled to additional progress payments until any advance
payments have been fully earned to include required retainage amounts. Owner may also
direct and require Contractor to submit payment requests in a timely fashion to a designated
general contractor being utilized by the Owner on a related project. Any payments received
from such designated general contractor shall accrue to the benefit of and be credited to the
Owner on this Contract.

Article 3. CONTRACT DOCUMENTS

The Contract will consist of the current INDOT Standard Specifications, and the following
sections which are attached hereto and are as fully a part of this Contract as if herein set out
verbatim:
SECTIONS

1. This Agreement
2. Supplemental Specifications
3. Special Notes & Requirements
4. Project Specifications
5. Itemized Bid
6. Acknowledgement of any Addenda
7. Bid Form 96
8. Performance and Labor and Materials Bond
   (To be submitted by the Contractor upon award and made a part of this Contract)
9. Certificate of Liability Insurance by Contractor
   (To be submitted by the Contractor upon award and made a part of this Contract)

Article 4. CONSTRUCTION SCHEDULE

4.1 Each bid shall be accompanied by a construction schedule detailing the time frame and order of work within the allowable contract time as described in Article 5.2 below. The schedule shall include, but not be limited to the activities required to perform the following:

A. Mobilization
B. Removal of Existing Bridge Structure
C. Construction of Proposed Bridge Structure and Appurtenances
D. Roadway Paving
E. Miscellaneous Construction

4.2 Contractor shall submit to the Owner for acceptance proposed adjustments in the construction schedule that will not change the Contract Times. Such adjustments will conform generally to the construction schedule then in effect and additionally will comply with any provisions of the General Requirements applicable thereto.

Article 5. CONTRACT TIME

5.1 The work is to begin within 10 calendar days of the release of Notice to Proceed, as weather permits, as approved by the Starke County Highway Department and is to be diligently prosecuted at such a date and in such a manner as in the opinion of the Engineer is necessary for the completion within the time herein specified.

5.2 The Contractor hereby agrees to complete the Work within ninety (90) calendar days of the start date of the work as approved by the Starke County Highway Department. To accomplish the work in this time frame may require the Contractor working longer hours or Saturdays. The construction start date is anticipated to be in Spring or Summer of 2018.

The County will release a Notice to Proceed to the Contractor prior to the approved time of the start of work. No work shall be done by the Contractor prior to the release of Notice to Proceed by the County.
5.3 Owner and Contractor recognize that time is of the essence of this Agreement and that Owner will suffer financial loss if the Work is not completed within the times specified in paragraph 5.2 above. It is agreed between the parties hereto that if the Contractor shall not complete the work by the date herein specified, the Owner may:

A. Withhold from such sums as may be payable to the Contractor under the terms of this Contract, an amount equal to One Thousand Dollars ($1,000) for each calendar day elapsing between the day so fixed for the completion of said Work and the date upon which said work shall be completed and accepted by the Owner; and

B. Relet said Work after giving the notice required by law, and the Contractor shall, on demand, pay to the Owner the cost of said reletting and the difference between the cost of construction or completing said improvement under said new contract, and the cost thereof under this contract.

C. The amounts above are hereby agreed upon as the just and liquidated damages which the Owner has sustained by reason of the noncompletion of said work within the time herein before fixed for the completion.

Article 6. MISCELLANEOUS

6.1 No assignment by a party hereto of any rights under or interests in the Contract Documents will be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law). Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

6.2 Contractor, its successors, assigns, and legal representatives shall perform and comply with all covenants, agreements, and obligations contained in the Contract Documents.

6.3 Owner shall comply with the covenants and agreements contained in the Contract Documents.

6.4 The Contractor shall be responsible for the providing of testing by an independent agency, incidental to the Contract. Testing shall include: proctor and in-place density on subgrade, backfill and subbase; slump, air content, yield, and flexural strength beams or compression strength cylinder tests of concrete. Other testing for internal cured concrete, if awarded, shall be required as described in the Project Specifications.

Test reports shall be promptly submitted to the Owner and where substandard results are found, corrective measures and retesting for standard results shall be documented.

6.5 The Contractor shall furnish the Owner with a performance bond and payment bond in the amount equal to the total contract price within ten (10) days after awarding the contract.

The performance bond shall be conditioned on the faithful performance of the work in accordance with these specifications and contract documents, including any plans and drawings; the payment bond shall be conditioned on the full payment of and for all subcontractors and materials. The bonds must specify that: a modification, omission or addition to the terms and conditions of the public work contract, plans, specifications, drawings or profile;
a defect in the public work contract; or a defect in the proceedings preliminary to the letting and awarding of the public work contract does not discharge the surety. The surety of the bonds may not be released until one (1) year after the date of Owner’s final settlement with the Contractor.

As a condition of awarding the contract, the successful bidder must furnish the bonds within ten (10) days after awarding the contract. Failure to do so within this time may be interpreted, at the discretion of the Owner, as failure to perform the obligations set forth in these specifications and contract documents. The Owner may then consider other bids, and/or rebid the project.

6.6 The Contractor shall furnish a maintenance bond in an amount equal to ten percent (10%) of the total contract price within 10 days after the date of acceptance of the project by the Owner. The maintenance bond shall guarantee for a period of one (1) year after the date of acceptance the work by the Owner that all workmanship and materials used in the project are in accordance with the specifications and contract documents. The Contractor shall be responsible for removing all defects due to faulty workmanship and/or materials and shall pay for any damage to other work resulting there from, which shall appear within the guarantee period.

6.7 Contractor shall defend, indemnify, and hold harmless the Owner from and against any and all liabilities, claims, demands, actions, and causes of action arising from or out of the actions or omissions of Contractor and Contractor’s employees, agents, representatives, and subcontractors in the performance of this Contract or in the failure to comply with the requirements of this Contract.

6.8 The Contractor shall be responsible for providing accurate estimated quantities of the completed work. The Owner shall verify the estimated quantities prior to payment to the Contractor for the work.

6.9 The types and minimum amount of insurance to be provided for by the Contractor shall be as follows:

   A. Workmen’s Compensation and Occupational Disease Insurance

      The Contractor shall provide Workmen’s Compensation and Occupational Disease Insurance as required by law. Such policy shall specifically include coverage for the State of Indiana.

   B. Employer’s Liability Insurance

      The Contractor shall provide Employer’s Liability with a minimum coverage of $1,000,000.

   C. Comprehensive General Liability Insurance

      The Contractor shall maintain Comprehensive General Liability Insurance with combined bodily injury and property damage limits of no less than $1,000,000 each occurrence and no less than $2,000,000 general aggregate. The insurance policy shall include the following:

      1. Premises/Operations: The policy shall include coverage for the following special hazards when applicable to the project:
i) Property damage arising out of blasting or explosion.

ii) Property damage arising out of collapse of or structural injury to any building or structure due to grading of land, excavation, borrowing, filling, backfilling, tunneling, pile driving, cofferdam work or caisson work or to moving, shoring, underpinning, raising, or demolition of any building or structure or rebuilding of any structural support thereof.

iii) Injury to or destruction of wires, conduits, pipes, mains, sewers, and other similar property of any apparatus in connection therewith below the surface of ground, if caused by use of mechanical equipment.

2. Contractual (Broad Form Indemnification): The Contractor agrees to indemnify and save harmless the Owner and its agents and employees, from and against all loss or expense (including costs and attorneys’ fees) by reason of liability imposed by law upon the Owner for damages because of bodily injury, including death, at any time resulting there from, sustained by any person or persons or on account of damage to property due or claimed to be due to negligence of the Contractor, his Subcontractors, employees or agents.

3. Contractor’s Protective: The Contractor shall maintain this type of coverage on a “Blanket” basis to cover the operations of any subcontractors.

D. Vehicle Liability Insurance

The Contractor shall maintain Comprehensive Vehicle Liability Insurance with combined bodily injury and property damage limits of no less than $1,000,000 each occurrence and no less than $2,000,000 general aggregate. This coverage may be provided either as a separate policy or as a part of the Comprehensive General Liability Policy described previously. The vehicle insurance must include coverage for all owned, non-owned and hired vehicles.

E. Umbrella Policy Insurance

The Contractor shall maintain a minimum $1,000,000 Umbrella Policy in addition to its primary insurance.

F. Contractor shall not commence work until it has obtained all insurance specified herein, has filed with the Owner one (1) copy of Certificate of Insurance, and such insurance has been approved by the Owner.

Should any Coverage approach expiration during the Contract period, it shall be renewed prior to its expiration, and Certificate again filed with the Owner.
If any such policies are canceled or are changed so as to reduce the coverage evidenced by the Certificate, at least ten (10) days prior written notice by registered mail of such cancellation or change shall be sent to the Owner.

All insurance provided for under this Section shall be written by insurance companies licensed to do business in Indiana.

All insurance shall be maintained in full force and effect until the Contract has been fully and completely performed.

6.10 Contractor shall pay and satisfy all debts, claims or entitlements for payment of subcontractors, laborers, material suppliers, and those performing services on the Work, as engaged or employed by Contractor. Owner shall withhold money from the Contract Price in a sufficient amount to pay the subcontractors, laborers, material suppliers, and those furnishing services (I.C. 36-1-12-13).

6.11 Pursuant to Indiana Code §22-9-1-10, Contractor and its subcontractors, if any, shall not discriminate against any employee or applicant for employment to be employed in the performance of this Contract, with respect to hire, tenure, terms, conditions or privileges of employment or any matter directly or indirectly related to employment, because of race, religion, color, sex, disability, national origin, or ancestry. Breach of this covenant may be regarded as material breach of this Contract.

6.12 Contractor certifies that, except for de minimis and non-systematic violations, it has not violated the terms of I.C. 24-4.7, I.C. 24-5-12, or I.C. 24-5-14 in the previous three hundred sixty-five (365) days, even if I.C. 24-4.7 is preempted by federal law and that Contractor will not violate the terms of I.C. 24-4.7 for the duration of this Agreement, even if I.C. 24-4.7 is preempted by federal law. Contractor further certifies that any affiliate or principal of Contractor and any agent acting on behalf of Contractor or on behalf of any affiliate or principal of Contractor except for de minimis and non-systematic violations, has not violated the terms of I.C. 24-4.7 in the previous three hundred sixty-five (365) days, even if I.C. 24-4.7 is preempted by federal law, and will not violate the terms of I.C. 24-4.7 for the duration of this Agreement, even if I.C. 24-4.7 is preempted by federal law.

6.13 The following provisions apply to Contractor and each contractor in any contractor tier for this Contract.

A. I.C. 22-5-1.7. A contractor shall submit to the Owner, before an individual who is required to be verified under I.C. 22-5-1.7 begins work on the public works project, the E-Verify case verification number for the individual. An individual who is required to be verified under I.C. 22-5-1.7 whose final case result is final non-confirmation may not be employed on the public works project.

B. A contractor may not pay cash to any individual employed by the contractor for work done by the individual on the public works project.


D. A contractor must be in compliance with I.C. 22-3-5-1 and I.C. 22-3-7-34.

E. A contractor must be in compliance with I.C. 22-4-1 through I.C. 2-4-39.5.

6.14 Contractor further agrees to comply with any and all applicable requirements of Indiana State law with respect to contracting with local governmental entities.

6.15 No Waiver of Governmental Immunity. Nothing in the Contract waives or is intended to waive any protections that may be applicable or to Owner or any of its elected or appointed officials, employees, agents, or representatives under any applicable statutes, rules, or regulations providing governmental immunity, or any other rights, protections, immunities, defenses, or limitations on liability that Owner or such related parties are provided by law.

6.16 Contractor is aware of the provisions under I.C. 36-1-21 et seq. with respect to anti-nepotism in contractual relationships with governmental entities. Contractor certifies that none of the owners of Contractor is a relative of any elected County Commissioner Member of the Owner.
IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed in three original copies on the day and year first above-written.

By: _________________________
   Xxxxxx

ATTEST: _________________________
   Witness

BOARD OF COMMISSIONERS
STARKE COUNTY, INDIANA

By: _________________________
   Don Binkley, President

ATTEST:

Katherine Chaffins, County Auditor
Starke County, Indiana

CERTIFICATION:

I _________________________, certify that I am the _________________________ of the _________________________ named as Contractor herein and said Agreement was duly signed for and in behalf of said _________________________ by authority of its governing body, and is within the scope of corporate powers.
SUPPLEMENTAL SPECIFICATIONS

The following specifications are for this particular project. If any one, or several of these conflict with the current INDOT Standard Specifications and current INDOT Standard Drawings, the Project Specifications are valid and the current INDOT Standard Specifications and current INDOT Standard Drawings which conflict are voided and the remainder of the current INDOT Standard Specifications and current INDOT Standard Drawings shall be valid. Anything not covered specifically by the Project Specifications shall be referred to the Standard Specifications and Standard Drawings, and these will be the governing factors for this project. The current INDOT Standard Specifications and current INDOT Standard Drawings are available on-line at the INDOT website: http://www.in.gov/indot/. The Engineer is available prior to the bid regarding any bidder questions on accessing the current INDOT Standard Specifications and/or current INDOT Standard Drawings.

1. GENERAL DESCRIPTION OF WORK:

The Starke County Bridge 36 Replacement Project generally includes: removal and proper disposal of the existing bridge structure; construction of the proposed bridge structure and appurtenances; earthwork; and roadway paving.

2. REFERENCES:

The two sets of plan drawings related to this project are on file at Starke County and are designated "Starke County Bridge No. 36 Replacement". These plan drawings shall be applicable to the project and are hereby incorporated by reference.
SPECIAL NOTES & REQUIREMENTS

(1.) Utility Locations
For protection of underground utilities, Contractor shall call Indiana’s Utility Location Service at (800) 382-5544 a minimum of three working days prior to excavating in the vicinity of utility lines. All “Holey Moley” participating members will thus be routinely notified. The Contractor shall be responsible for notifying any and all utility owners who may not be part of the “Holey Moley” alert system. The Contractor shall be responsible for successfully coordinating with all affected existing utilities in the vicinity of the project whether all utilities are indicated in the Contract Documents or not. The Contractor shall be solely responsible for any and all coordination, payment, and full resolution of any damages to utilities resulting from actions and/or omissions of the Contractor.

(2.) Pre-Construction Meeting
Approximately one week prior to the start of construction, the Contractor shall request a pre-construction meeting with Starke County’s Highway Department Superintendent and the Project Engineer to discuss the Contractor’s project schedule and operations.

(3.) Construction Video
The Contractor shall be responsible for providing a comprehensive pre-construction video recording of the project site. The video recording shall provide good color frames and have sound capabilities used to point out existing conditions. A date and time stamp shall be visible during the extent of the production. Pre-construction videos shall be delivered to the Owner prior to the start of construction. The Contractor’s pay requests may be delayed by the Owner if the Contractor fails to promptly provide a video recording that is acceptable to the Owner.

(4.) Testing Requirement
Costs associated with required testing shall be merged into the established pay items as bid. It shall be the responsibility of the Contractor to order these tests and provide the necessary documentation, verifying passing tests, to the Owner and the Owner’s duly authorized agent. Failed tests shall be followed by documentation of corrective measures and passing test results obtained in the same immediate locations. Where substandard test results involve removal of substandard materials as deemed necessary by the Owner, the Contractor shall be responsible for successful removal of substandard materials, replacement with acceptable materials, and any and all associated costs.

Testing requirements shall include: standard proctor and in-place density testing of encountered subgrade soils and compacted aggregate base at new approach pavement construction areas; slump, air content and either flexural beam or compression cylinder strength testing for new concrete bridge deck pavement and concrete approach pavement; and internal cure concrete testing per the project specifications.
(5.) **Underground Conditions**

The Contractor shall perform any sub-surface investigations necessary to become familiar with local conditions prior to bidding. There shall be no compensation for investigation work.

(6.) **Permits**

The Owner has obtained environmental permits for this project as described in the Contract Documents. The Contractor shall perform the work in accordance with the conditions of all permits obtained for this project, and shall be responsible for holding the Owner faultless in connection with any permit violations resulting from the Contractor's actions or omissions. The Contractor shall be responsible for any corrections, mitigations, and costs in connection with any such permit violations.

(7.) **Wage Schedule**

In accordance with Indiana House Bill 1019, effective 7/1/15, no construction wage schedule requirement is included in this contract.

(8.) **Contractor's Qualification Submittal**

At the same time of the Contractor's bid submittal, the Contractor shall submit documentation of the Contractor's pre-qualification by INDOT on INDOT-administered bridge projects.

Also, the Contractor shall submit a brief list of no more than 3 of the Contractor's most recent bridge projects, under INDOT Standard Specifications, of similar or larger scope to this project, including project name, municipality, approximate construction cost, year completed, and name and phone number of the municipality contact most familiar with the project.

This qualification information will be considered at the Owner's own discretion in selecting the lowest responsive and responsible qualified bidder.

The Owner reserves the right to disqualify any bidder based on incomplete or substandard qualification submittal information, at the Owner's sole discretion.

(9.) **No Pre-bid Meeting**

No pre-bid meeting will be held for this project. By submitting a bid, the Bidder will be assumed to have made a thorough field check of the site conditions prior to bidding and the Bidder shall be held responsible accordingly.

(10.) **Bidder Questions**

All Bidder questions during the bidding process shall be directed to Mark E. Wilson, PE, of Jones Petrie Rafinski at (574) 293-7762 or mwilson@jpr1source.com

The deadline for the submittal of Bidder questions to be considered for possible addendum is 12:00 p.m., Noon, Central Daylight Savings Time on Wednesday, September 27, 2017.
(11.) The Attached Ordinance "...to establish Responsible Bidding Practices and Submission Requirements for Submitting Bids to Perform Construction Work on Public Works Projects" shall apply to this project.
BIDDING ORDINANCE
ORDINANCE NO. 75-01-2017
An Ordinance to establish Responsible Bidding Practices and Submission Requirements for Submitting Bids to Perform Construction Work on Public Works Projects

WHEREAS, Starke County is required by law to award capital improvement contracts to the "lowest responsive and responsible" bidder;

WHEREAS, the County, based upon its experience, has determined that quality workmanship, efficient operation, safety, and timely completion of projects requires all bidders meet certain minimum requirements in order to be a "responsive and responsible" bidder;

WHEREAS, applicable state law also requires that bidders meet certain minimum requirements in order to be a "responsive and responsible" bidder;

WHEREAS, the County seeks to enhance its ability to identify "responsive and responsible" bidders on all County public works construction projects by institution of more comprehensive submission requirements which are in compliance with Indiana State law;

WHEREAS, the "Responsible Bidding Practices and Submission Requirements" Ordinance will preserve administrative resources by insuring that only qualified contractors and subcontractors are awarded contracts on public works construction projects;

WHEREAS, the "Responsible Bidding Practices and Submission Requirements" Ordinance will assure efficient use of taxpayer dollars, will promote public safety and is in the public interest; and,

WHEREAS, the "Responsible Bidding Practices and Submission Requirements" Ordinance will help ensure that no contractor awarded work under this Ordinance or any subcontractor at any tier working on a project awarded pursuant to this ordinance engages in payroll fraud, including the misclassification of employees as independent contractors to avoid paying state, federal or local payroll taxes, workers compensation insurance, unemployment insurance premiums and failing to pay overtime and wages as required by law.

NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF COMMISSIONERS OF STARKE COUNTY, INDIANA THAT:

SECTION 1. This Ordinance No. 75-01-2017, which is entitled "Responsible Bidding Practices and Submission Requirements for Submitting Bids to Perform Construction Work on Public Works Projects," is hereby enacted and shall read as follows:

I. Bid Submission Requirements

Contractors proposing to submit bids on any Starke County ("County") project estimated to be at least one-hundred fifty thousand dollars ($150,000.00) or more must, prior to the opening of bids, submit a statement made under oath and subject to perjury laws, on a form
designated by the County and must include:

(A) A copy of a print-out of the Indiana Secretary of State’s on-line records for the bidder dated within sixty (60) days of the submission of said document showing that the bidder is in existence, current with the Indiana Secretary of State’s Business Entity Reports, and eligible for a certificate of good standing. If the bidder is an individual, sole proprietor or partnership, this subsection shall not apply;

(B) A list identifying all former business names;

(C) Any determinations by a court or governmental agency for violations of federal, state, or local laws including, but not limited to violations of contracting or antitrust laws, tax or licensing laws, environmental laws, the Occupational Safety and Health Act (OSHA), or federal Davis-Bacon and related Acts;

(D) A statement on staffing capabilities, including labor sources;

(E) Evidence of participation in apprenticeship and training programs, applicable to the work to be performed on the project, which are approved by and registered with the United States Department of Labor’s Office of Apprenticeship, or its successor organization. The required evidence includes a copy of all applicable apprenticeship certificates or standards for these training programs;

(F) A copy of a written plan for employee drug testing that: (i) covers all employees of the bidder who will perform work on the public work project; and (ii) meets, or exceeds, the requirements set forth in IC 4-13-18-5 or IC 4-13-18-6;

(G) The name and description of the management experience of each of the bidder’s project managers and superintendents that bidder intends to assign to work on the project;

(H) Proof of any professional or trade license required by law for any trade or specialty area in which bidder is seeking a contract award; and disclosure of any suspension or revocation within the previous five years of any professional or trade license held by the company, or of any director, officer or manager employed by the bidder;

(I) Evidence that the contractor is utilizing a surety company which is on the United States Department of Treasury’s Listing of Approved Sureties;

(J) A written statement of any federal, state or local tax liens or tax delinquencies owed to any federal, state or local taxing body in the last five years;

(K) A statement that individuals who will perform work on the public work project on behalf of the bidder will be properly classified as either (i) an employee or (ii) an independent contractor, under all applicable state and federal laws and local ordinances;

(L) A list of projects of similar size and scope of work that the bidder has performed in the State of Indiana within three (3) years prior to the date on which the bid is due;
For contracts estimated to cost at least three hundred thousand dollars ($300,000), certification that all contractors and subcontractors are qualified under IC 4-13.6-4 or IC 8-23-10.

The County reserves the right to demand supplemental information from the bidder, (additional) verification of any of the information provided by the bidder, and may also conduct random inquiries of the bidder’s current and prior customers.

II. Post-Bid Submissions from Subcontractors

All bidders shall provide a written list that discloses the name, address, and type of work for each first-tier subcontractor from whom the bidder has accepted a bid and/or intends to hire on any part of the public work project, including individuals performing work as independent contractors, within five (5) business days after the date the bids are due.

In addition, each such first-tier subcontractor shall be required to adhere to the requirements of Section I of this Ordinance as though it were bidding directly to the County, except that first-tier subcontractors shall submit the required information (including the name, address, and type of work for each of their first-tier subcontractors) to the successful bidder no later than five (5) business days after the subcontractor’s first day of work on the public work project and the bidder shall then forward said information to the County. Payment shall be withheld from any first-tier subcontractor who fails to timely submit said information until such information is submitted and approved by the County.

Upon request, the County may require any second and lower-tier subcontractors to provide the required information (including name, address, type of work on the project and the name of the higher-tier subcontractor). Payments shall be withheld from any second or lower-tiered contractor who fails to timely submit this information until this information is submitted and approved by the County. Additionally, the County may require the successful bidder and relevant subcontractor to remove the second or lower-tier subcontractor from the project and replace it with a responsive and responsible subcontractor.

Failure of a subcontractor to submit the required information shall not disqualify the successful bidder from performing work on the project and shall not constitute a contractual default and/or breach by the successful bidder. However, the County may withhold all payments otherwise due for work performed by a subcontractor, until the subcontractor submits the required information and the County approves such information. The County may also require that successful bidder to remove the subcontractor from the project and replace it with a responsive and responsible subcontractor.

The disclosure of a subcontractor (“Disclosed Subcontractor”) by a bidder or a subcontractor shall not create any rights in the Disclosed Subcontractor. Thus, a bidder and/or subcontractor may substitute another subcontractor (“Substitute Subcontractor”) for a Disclosed Subcontractor by giving the County written notice of the name, address, and type of work of the Substitute Subcontractor. The Substitute Subcontractor is subject to all of the obligations of a subcontractor under this Ordinance.
III. **Validity of Pre-Qualification Classification**

Upon designation by the County that a contractor's or subcontractor's submission in anticipation of a bid is complete and timely, and upon any further consideration deemed necessary by the County, the contractor or subcontractor may be pre-qualified for future County public works projects. A contractor's classification as "qualified" shall exempt the contractor or sub-contractor from the comprehensive submission requirements contained herein for a period of twelve (12) months. Thereafter, contractors or subcontractors who are pre-qualified must submit a complete application for continuation of "pre-qualified" standing, on a form provided by the County, (also referred to as the "short form") by December 31st for the upcoming calendar year. Failure by any pre-qualified contractor or subcontractor to timely submit its complete application for continuation of "pre-qualified" standing shall result in automatic removal of the designation, effective January 1 of the upcoming year. However, the "removed" contractor or subcontractor shall still be permitted to bid on County public works projects.

Any material changes to the contractor's status, at any time, must be reported in writing within ten (10) days of its occurrence to the County. The pre-qualification designation is solely within the discretion of the County and the County specifically reserves the right to change or revoke the designation for a stated written reason(s).

Denial of pre-qualification shall be in writing and shall be forwarded to the contractor within seven (7) working days of such decision. Any contractor denied or losing pre-qualification status may request reconsideration of the decision by submitting such request in writing to the County within five (5) business days of receipt of notice of denial.

IV. **Incomplete Submissions by Bidders**

It is the sole responsibility of the potential bidder to comply with all submission requirements applicable to the bidder in section I above by no later than the public bid opening. Post-bid submissions must be submitted in accordance with section II above. Submissions deemed inadequate, incomplete, or untimely by the County may result in the automatic disqualification of the bid.

V. **Responsive and Responsible Bidder Determination**

The County, after review of complete and timely submissions, shall, in its sole discretion, after taking into account all information in the submission requirements, determine whether a bidder is responsive and responsible. The County specifically reserves the right to utilize all information provided in the contractor or subcontractor's submission or any information obtained by the County through its own independent verification of the information provided by the contractor.

VI. **Certified Payroll**

For projects in which the cost is at least $250,000, the successful bidder and all subcontractors working on a public work project shall submit a certified payroll report
utilizing the federal form now known as a WH-347 which must be prepared on a weekly basis and submitted to the County within ten (10) calendar days after the end of each week in which the bidder or subcontractor performed its work on the public work project. These certified payroll reports shall identify the job title and craft of each employee on the project, e.g. journeyman electrician or apprentice electrician. In the event any contractor or subcontractor uses independent contractors to perform work on the project, such individual must be identified on the WH-347 form with the same information as is required for employees.

The County may withhold payment due for work performed by a bidder if the bidder fails to timely submit its certified payroll reports until such time as such certified payroll reports are submitted. The County may also withhold payment due for work performed by a subcontractor if the subcontractor fails to timely submit its certified payroll reports until such time as such certified payroll reports are submitted. The County shall not withhold payment to a bidder for work performed by the bidder or for work performed by subcontractors who have submitted their certified payroll reports, because one or more other subcontractors failed to timely submit their certified payroll reports.

VII. Public Records

All information submitted by a bidder or a subcontractor pursuant to this Ordinance, including certified payrolls, are public records subject to review pursuant to the Indiana Access to Public Records law (IC 5-14-3).

VIII. Penalties for False, Deceptive, or Fraudulent Statements/Information

Any bidder that willfully makes, or willfully causes to be made, a false, deceptive or fraudulent statement, or willfully submits false, deceptive or fraudulent information in connection with any submission made to the County shall be disqualified from bidding on all County projects for a period of three (3) years.

IX. Conflicting Ordinances

Any ordinance or provision of any ordinance in conflict with the provisions of this Ordinance is hereby repealed.

X. Severability

If any provision of this Ordinance is found to be invalid, the remaining provisions of this Ordinance shall not be affected by such a determination. These other provisions of this Ordinance shall remain in full force and effect without the invalid provision.

SECTION 2. It is hereby found and determined that all formal actions of the Board of Commissioners relating to the passage of this Ordinance were adopted in open meeting(s) of this Board and that all deliberations of this Board and its committees that resulted in such
formal actions, were meetings open to the public, in compliance with all legal requirements and that the reading and adoption of this Ordinance complies with the County Code, as amended.
SECTION 3. This Ordinance shall take effect upon passage by the Board of Commissioners of Starke County, Indiana.

PASSED AND ADOPTED this ___ day of March, 2017.

STARKE COUNTY COMMISSIONERS

Kathryn J. Noreen

Don Binkley

Charles Chesak

ATTEST:

Katherine Chaffins, Auditor
Notice to Starke County Residents of Public Hearing on Ordinance to Establish Responsible Bidding Practices and Submission Requirements for Submitting Bids to Perform Construction Work on Public Works Projects

Notice is hereby given to the residents of Starke County, Indiana, that the Starke County Board of Commissioners will consider the annex building meeting room at 93 E. Mound St., Knox, IN, at 6:00PM on March 20th, 2017 the creation of the Ordinance for Responsible Bidding Practices. Residents appearing at such hearing shall have the right to be heard thereon.

Any interested parties wishing to request a copy of the proposed ordinance may contact the Starke County Auditor’s Office for a copy. Dated this 15th day of February, 2017.

Katherine Chaffins
Auditor of Starke County

Date: MARCH 3, 2017

Signature

Plan Commission
Pursuant to the provisions and penalties of IC 5-11-10-1, I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

I also certify that the printed matter attached hereto is a true copy, of the same column width and type size, which was duly published in said paper 2 time(s), the dates of publication being as follows:

2/24/2017 03/03/17

Additionally, the statement checked below is true and correct:

X Newspaper has a Web site and this public notice was posted on the same day as it was published in the newspaper.

Newspaper has a Web site, but due to technical problem or error, public notice was posted on
Newspaper has a Web site but refuses to post the public notice.

Date: MARCH 3, 2017

Signature

Plan Commission
Pursuant to the provisions and penalties of IC 5-11-10-1, I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

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Date: MARCH 3, 2017

Signature
PROJECT SPECIFICATIONS
BASE BID ITEMS

1. MOBILIZATION AND DEMOBILIZATION

Prevailing INDOT Standard Specification Section: 110

2. CONSTRUCTION STAKING

Prevailing INDOT Standard Specification Section: 105

The work shall be in accordance with INDOT Standard Specification 105.08 "Construction Stakes, Lines, and Grades", part (b) "Construction Engineering by the Contractor".

The Contractor shall keep all construction staking and surveying notes for the construction of the project in a neat, logical, and readable manner. All notes shall be provided promptly to the Owner upon acceptance of the project.

No measurement will be made for the work to be paid for at the contract lump sum price for Construction Staking.

3. PRESENT STRUCTURE, REMOVE

Prevailing INDOT Standard Specification Section: 202

The Contractor shall be responsible for removal and proper disposal away from the site vicinity of all materials included in the existing bridge structure and appurtenances. Where approved by the Owner only, some existing structure portions may be partially removed to a reasonable depth below proposed grades, i.e. such as existing pilings which are not in conflict with the proposed construction. The Contractor shall be responsible for any environmental permitting and/or procedures necessary for proper removal, handling, hauling, and disposal of all related materials away from the site vicinity.

Any necessary incidental clearing of Right-of-Way in accordance with INDOT Standard Specification Section 201 shall be included in the cost of the lump sum item for Present Structure, Remove.

4. SITE GRADING

Prevailing INDOT Standard Specification Section: 203

Site grading work shall include wet excavation, dry excavation, and generally all types of excavation as needed to construct the project. Site grading shall include all excavation, backfilling, hauling, standard proctor and in-place density testing by independent qualified technician, controlling of optimum moisture content, grading, compacting, separate stockpiling of existing topsoil and other soils, removing extraneous materials from topsoil and other soils, re-use of existing soils, placement and preparation of existing topsoil material for support of proposed seeding, etc., as needed to construct the project in accordance with the details and intent of the Contract Documents.
Subgrade soils and subbase material shall be compacted to minimum 95% maximum dry density of the standard proctor test results for each individual material involved. A minimum 6" of topsoil shall be placed at areas for establishing grass on slopes, and minimum 4" at upland areas of gentle slopes.

No measurement will be made for the work to be paid for at the contract lump sum price for Site Grading.

The intent of site grading is to re-use existing site soils as possible. The Engineer shall decide on any question of soil suitability. No soils shall be removed from the site without specific approval from the Engineer, until the project is accepted.

Site grading shall also include, but not be limited to, proof-rolling of pavement subgrade areas, and grading and compacting of soil to create gentle adjacent surface cross slopes (i.e. typical 4:1, or max 3:1 slopes only where specifically allowed by the Engineer) at the perimeter of the proposed riprap, and approach slabs and adjacent incidental pavement areas.

5. STRUCTURAL BACKFILL IN FILTER FABRIC

*Prevailing INDOT Standard Specification Section: 211*

Pay quantity shall be neat line in-place plan volume of structural backfill at bridge bents as per typical plan details. No payment will be made for any additional quantity beyond plan volume. No measurement will be made for filter fabric required to wrap around the entire volume of structural backfill, as the required filter fabric shall be included in the unit price cost of the volume in cubic yards of the structural backfill.

The Contractor's proposed filter fabric material shall be submitted to the Engineer for review and approval or rejection sufficiently in advance of the work. INDOT pre-approved filter fabric is preferred for this project.

6. TEMPORARY SILT FENCE

*Prevailing INDOT Standard Specification Section: 205*

All silt fence shall be installed according to INDOT Standard Drawing E 205-TECP-02. Silt fence shall be installed as early as practical and shall be continuously maintained so as to provide perimeter protection against erosion and sedimentation for construction operations. Silt fence shall be reset or replaced as needed at no additional cost to the Owner.

Silt fence shall be removed only as directed by the Owner

7. COMPACTED AGGREGATE, SIZE NO. 53 FOR BASE

*Prevailing INDOT Standard Specification Section: 301*

Sufficiently in advance of the work, the Contractor shall provide the Engineer with material and source information to verify the material meets INDOT size No. 53 aggregate requirements.

The Contractor shall provide standard proctor and in-place density testing by independent qualified technician. Compacted aggregate shall be compacted to minimum 95% maximum dry
density of the standard proctor test results. The Contractor shall provide moisture control measures as needed.

8. **HMA SURFACE, TYPE A**

*Prevailing INDOT Standard Specification Section: 402*

Sufficiently in advance of the work, the Contractor shall provide the Engineer with job mix formula information in compliance with INDOT Standard Specifications for review and approval or rejection. Blast furnace or other slag shall not be used in the mix.

The Contractor shall promptly provide the Engineer with accurate weight tickets with each truck load.

The Contractor shall be responsible for providing a smooth pavement surface ride as approved by the Owner. In the event of any smoothness corrections required by the Owner, the Contractor shall correct the smoothness of the pavement to the approval of the Owner at the Contractor's cost.

9. **HMA INTERMEDIATE, TYPE A**

*Prevailing INDOT Standard Specification Section: 402*

Sufficiently in advance of the work, the Contractor shall provide the Engineer with job mix formula information in compliance with INDOT Standard Specifications for review and approval or rejection. Blast furnace or other slag shall not be used in the mix.

The Contractor shall promptly provide the Engineer with accurate weight tickets with each truck load.

The Contractor shall be responsible for providing a smooth pavement surface ride as approved by the Owner. In the event of any smoothness corrections required by the Owner, the Contractor shall correct the smoothness of the pavement to the approval of the Owner at the Contractor's cost.

The Contractor shall provide the Engineer with the Contractor's proposed plan for placement of individual lift thicknesses and specifically proposed compaction equipment at full depth pavement areas, in particular at the narrow 2' wide areas adjacent to the concrete slabs where thorough compaction of subbase and HMA pavement must be achieved, sufficiently in advance of the work, for review and approval or rejection.

The Contractor shall neatly saw cut and protect pavement edges to match smoothly into existing pavement. Additional HMA removal or mix at adjacent existing pavement due to damage by the Contractor shall be at the Contractor's cost.

10. **ASPHALT FOR TACK COAT**

*Prevailing INDOT Standard Specification Section: 406*

Tack coat shall be uniformly and completely applied on concrete surfaces immediately prior to placement of HMA pavement over concrete, and immediately prior to placement of all HMA surface course.
The Contractor shall be responsible for prompt clean-up of any and all tack coat overspray onto guardrail, etc., while preventing any impact from the cleaning agent to HMA pavement materials.

11. GUARDRAIL END TREATMENT, TYPE “OS”

Prevailing INDOT Standard Specification Section: 601

Applicable INDOT Standard Drawings include: E 601-GRET-06.

12. W BEAM BRIDGE GUARDRAIL, 6'-3" POST SPACING, (29")

Prevailing INDOT Standard Specification Section: 601

Applicable INDOT Standard Drawings include: E 601-WBGC-01, -02, and -03.

The Contractor shall merge the applicable plan drawing details with the applicable INDOT Standard Drawings. In the event of any discrepancy, the plan drawing details shall govern.

As indicated in the Contract Documents, 8' long driven guardrail posts are required at the vicinity of the bridge corners. The cost of the long posts shall be included in the unit price per LFT of the W Beam Bridge Guardrail item.

The Contractor shall provide all necessary materials and perform all necessary work to successfully construct the W Beam Bridge Guardrail and connections to other guardrail components as intended in the Contract Documents. All related components and connections necessary to successfully complete the work as intended shall be included in the cost of the length of the W Beam Bridge Guardrail installed, according to the neat line lengths as specified on the plans.

13. W BEAM GUARDRAIL CURVED TERMINAL END

Prevailing INDOT Standard Specification Section: 601

Applicable INDOT Standard Drawings include: E 601-WBGC-01

14. CURVED W BEAM GUARDRAIL, 90° BEND, 8'-6" RADIUS (29")

Prevailing INDOT Standard Specification Section: 601

Applicable INDOT Standard Drawings include: E 601-CWGS-03

The Contractor shall merge the applicable plan drawing details with the applicable INDOT Standard Detail Drawings. In the event of any discrepancy, the plan drawing details shall govern.

The Contractor shall provide all necessary materials and perform all necessary work to successfully construct the curved W Beam Guardrail and connections to other guardrail components as intended in the Contract Documents. All related components and connections necessary to successfully complete the work as intended shall be included in the cost of the specified Curved W Beam Guardrail per each.
15. REINFORCED INTERNALLY CURED CONCRETE BRIDGE APPROACH PAVEMENT, 10"

Prevailing INDOT Standard Specification Section: 609

The Contractor shall be responsible for taking all necessary precautions, such as pouring early in the day, providing a watchman after hours, etc., to avoid vandalism or other damage to the concrete during the curing period of the concrete.

The Contractor shall provide concrete testing by independent qualified technician in accordance with the INDOT manual on the minimum frequency of testing for slump, air, yield, and sufficient numbers of either standard flexural strength beams or standard compression strength cylinders. Initial testing for each day’s pour shall be at the beginning of the pour. No substandard materials shall be used in the project, and all quantities of materials related to substandard testing shall be rejected and removed from the project. The Contractor shall promptly provide all test reports to the Engineer as soon as possible.

The Contractor shall be responsible for providing the necessary testing equipment and for providing enough flexural beams or compression cylinders to show test report results of the achieving of minimum 550 psi flexural strength which shall be the minimum strength for allowing anything more than foot traffic on the cured concrete. When standard compression cylinders are used, the results shall be converted to standard flexural beam strength by the proper conversion factor as approved by the Engineer.

The Contractor shall provide job mix formula information, including all concrete components and admixtures, in accordance with INDOT Standard Specifications for Portland cement concrete pavement (PCCP) to the Engineer, sufficiently in advance of the work to allow for review and approval or rejection. The approved job mix formula information shall be written on the first concrete load ticket provided at the site prior to the start of each day's pour for verification. The Portland cement concrete mix for bridge approach pavement shall be internally cured structural concrete class C as specified for the bridge concrete in these Project Specifications.

The Contractor shall perform all work in accordance with all applicable INDOT Standard Specifications, including but not limited to the specifications for subgrade and subbase compaction and grading, forming, pouring, screeding, tining, curing, preparation for surface seal, etc.

The Contractor shall provide a detailed plan for the Contractor's proposed curing operations, including all specific curing materials and methods to be used in accordance with the INDOT Standard Specifications to the Engineer for review and approval or rejection, sufficiently in advance of the work. Approval of the Contractor's curing plan by the Engineer shall not relieve the Contractor of the responsibility to provide complete and effective curing methods continuously from the time of the pour to the time of acceptance of minimum 550 psi flexural strength by the Engineer. Any discontinuation of curing methods for whatever reason prior to acceptance of curing by the Engineer shall involve the extended time of curing methods as directed by the Engineer. Curing methods shall not affect the tining and finishing of the concrete.

The Contractor shall be responsible for any repairs or removal and replacement of all or portions of the work due to vandalism, other damage, or any detrimental random cracking prior
to the acceptance of the project as deemed necessary by the Owner at the Contractor's expense.

16. GEOTEXTILES FOR RIPRAP

*Prevailing INDOT Standard Specification Section: 616*

Geotextiles shall be sufficiently overlapped and pinned into place before placement of riprap. Overlap area, pinning, and wrapping of geotextiles along the vertical sides of the riprap perimeter shall not be measured or included in the pay quantity.

The Contractor shall provide the Engineer with the proposed geotextile material information sufficiently in advance of the work to allow for review and approval or rejection. INDOT pre-approved materials are preferred for this project.

17. RIPRAP, REVETMENT

*Prevailing INDOT Standard Specification Section: 616*

Successfully installed rip rap shall be measured and paid by the TON. The Contractor shall promptly provide accurate weigh tickets for all loads of rip rap to be included in the project. Rip rap shall be paid for used portions only.

Areas to receive riprap shall be notched into the stream banks so that the surface of the completed riprap shall conform with the typical surrounding stream bank grade surfaces.

Preparation for riprap placement and the riprap placement shall be done at the earliest reasonable time, immediately after sufficient removal of the existing structure portions so as to provide erosion and sediment protection for the subsequent work operations. The Contractor shall perform the work using all reasonable precautions so as to avoid erosion and sedimentation into the stream.

The Contractor shall be responsible for planning the placement of the riprap over geotextiles to mesh with the forming and removal of the Contractor's bridge construction forms and falsework. This shall include any and all setting, resetting, and/or hand laying of riprap as needed during the project so as to complete the riprap according to the details and intent of the Contract Documents. Where riprap placement is incomplete prior to the removal of bridge forms and falsework, the Contractor shall temporarily place the riprap at the immediate vicinity so as to provide temporary erosion and sediment control as practical.

18. MOBILIZATION & DEMOBILIZATION FOR SEEDING

*Prevailing INDOT Standard Specification Section: 621*

The pay item shall be used only as previously approved by the Engineer. Seeding shall be done as early as reasonably possible so as to avoid erosion and sedimentation. Slope stabilization and/or other seeding shall be done at specific times for specific areas during the project if deemed necessary by the Engineer for erosion and sedimentation control.

The pay item shall not be used for mobilization to replace or repair seeding areas that have eroded or have failed to establish grass as deemed by the Engineer.
19. SEEDING, SLOPE STABILIZATION

Prevailing INDOT Standard Specification Section: 621

Slope stabilization seed mix shall be placed with an erosion control blanket. The seed mix shall be "slope stabilization" mix as specified by "Cardno JFNew" of Walkerton, Indiana (574) 586-3400, or equal as approved by the Engineer.

The "Cardno JFNew" slope stabilization mix includes a recommended 59.5 PLS pounds per acre application of the following mix components:

<table>
<thead>
<tr>
<th>BOTANICAL NAME</th>
<th>COMMON NAME</th>
<th>PLS OZ/ACRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andropogon gerardii</td>
<td>Big Bluestem</td>
<td>48.00</td>
</tr>
<tr>
<td>Bouteloua curtipendula</td>
<td>Side-Oats Grama</td>
<td>16.00</td>
</tr>
<tr>
<td>Carex spp.</td>
<td>Prairie Sedge Mix</td>
<td>4.00</td>
</tr>
<tr>
<td>Elymus canadensis</td>
<td>Canada Wild Rye</td>
<td>32.00</td>
</tr>
<tr>
<td>Elymus virginicus</td>
<td>Virginia Wild Rye</td>
<td>24.00</td>
</tr>
<tr>
<td>Panicum virgatum</td>
<td>Switch Grass</td>
<td>12.00</td>
</tr>
<tr>
<td>Schizachyrium scoparium</td>
<td>Little Bluestem</td>
<td>32.00</td>
</tr>
<tr>
<td>Sorghastrum nutans</td>
<td>Indian Grass</td>
<td>32.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>200.00</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>TEMPORARY COVER</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Avena sativa</td>
</tr>
<tr>
<td>Lolium multiflorum</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

All necessary incidentals, including but not limited to mulch, fertilizer, watering, etc., as needed to successfully establish grass shall be included in the cost of the unit price for seeding per SYD of completed seeding area. Any areas outside of the specified seeding areas that are disturbed by the Contractor during the project shall be seeded with slope stabilization seeding and erosion control blanket with all incidentals to successfully establish grass at the Contractor's expense.

Reseeding of eroded areas or at areas where seeding has failed to successfully be established as deemed by the Engineer shall be re-seeded with all incidentals to successfully establish grass at the Contractor's expense, including any regrading or grading repairs as deemed by the Engineer.

The Contractor shall guarantee the successful performance of all seeding for one calendar year after the date of the acceptance of the project. The Owner shall decide on the need for any re-seeding, regrading, or repairs within the guarantee period. Any re-seeding shall include a new one calendar year guarantee by the Contractor following the acceptance of the re-seeding by the Owner.

20. EROSION CONTROL BLANKET

Prevailing INDOT Standard Specification Section: 621

The Contractor shall submit information on the proposed erosion control blanket to the Engineer sufficiently in advance of the work for review and approval or rejection. Erosion control blanket materials from the INDOT preapproved list are preferred for this project.
Erosion control blanket materials shall be sufficiently overlapped and pinned. Overlaps and pins shall not be measured, and shall be included in the cost of the unit price for seeding area by the square yard.

21. PILE, CONCRETE, STEEL SHELL ENCASED, 0.312 IN., 14 IN. DIA.

*Prevailing INDOT Standard Specification Section: 701*

For this project, the Contractor shall submit a completed INDOT "Pile and Driving Equipment Data Form" in accordance with Section 701.04(a) to the Engineer in lieu of the INDOT Office of Geotechnical Engineering.

For this project it is intended for the Contractor to drive steel shell piles with steel end plates to depth and bearing as approved by the Engineer, prior to the Contractor cutting off pile portions above the specified tops of piles at the top of the pay limits, and filling with Class 'A' concrete.

Sufficiently in advance of the work, the Contractor shall submit to the Engineer the available information from the manufacturer of the proposed pile driving equipment, regarding estimated bearing based on measured pile penetration depth per full blow of the proposed pile driving equipment for review and approval or rejection of the proposed pile driving equipment by the Engineer.

The Engineer and/or the Engineer's representative shall observe the pile driving to determine the required minimum bearing of 200 kips (200,000 lbs) per pile.

Pile tip elevations as given in the plans are estimated for the required bearing, and are not required minimum tip elevations.

The unit price for the pay item "Pile, Concrete, Steel Shell Encased, 0.312 in., 14 in. dia." Shall be paid per LFT for completed pile length in place, driven to required bearing as approved by the Engineer, below the planned elevation at top of finished pile as indicated on the plan drawings. No payment shall be made to the Contractor for stockpiling of pile materials, or for any cut-off or unused piles or portions.

22. INTERNALLY CURED STRUCTURAL CONCRETE, MODIFIED CLASS C

*Prevailing INDOT Standard Specification Section: 702*

The work shall consist of furnishing and placing internally cured structural concrete, class C for the monolithic bridge deck, end bents, and piers, in accordance with the Prevailing INDOT Standard Specifications and the following special provisions, to produce minimum 28 day compressive strength of 4,500 psi.

The concrete mixture shall include the replacing of 40% of the mix design's normal weight fine aggregate with an equal volume of soaked fine lightweight aggregate. The lightweight aggregate shall be properly soaked for a minimum of 72 hours and drained for 24 to 30 hours prior to use. The SSD weight of the lightweight aggregate must meet or exceed 15% absorption on the day of production, before batching the concrete. The Contractor shall provide testing for moisture content according to AASHTO T84 or ASTM C128.
The internally cured concrete mix design shall be in accordance with the following criteria. If concrete pumping is used, the following criteria shall be achieved based on sampling and testing performed after pumping, as applicable. If concrete is pumped, the Contractor shall follow the recommendations of ACI 304.2R:

- The minimum Cementitious Content shall be 580 lbs. per cubic yard.

- Tandem Supplementary Cementitious Material, (SCM) Portland cement Replacement: 15% Low Carbon (Type C) Fly Ash and 25% Slag Cement. Type F Fly Ash shall not be used.

- Alternate single use SCM (Portland cement Replacement: a) Slag Cement: 35% Portland cement Replacement; or b) Fly Ash: 20% Portland cement replacement. Type F shall not be used.

- Water/cement ratio shall range between 0.36 and 0.43, with a target value of 0.40.

- Cement Paste Volume shall not exceed 26.5%

- Air content is specified between 5% and 7% and shall not exceed 7%. Target air content is 6.5%.

- The concrete shall be provided at the minimum slump necessary for efficient mixing, placing, and finishing. The slump shall be 4" +/- 1.5", and shall not exceed 5.5". An approved plasticizer may be used.

- Each grading and type of aggregate for the concrete mix shall be stockpiled separately. Storage shall minimize segregation and prevent contamination.

- Cement shall meet ASTM C150. Air entrained cements are not permitted.

- Fine lightweight aggregate shall be expanded shale, clay, or slate (ESCS) provided by the rotary kiln method at temperatures of 1,000° C and shall meet ASTM C330 (No. 4 x 0). Normal weight aggregate shall meet ASTM C33. Fine lightweight aggregate shall be "Haydite 'A' Gradation" by "Hydraulic Press Brick Company". Contact: Tom Morris, Technical Sales, Hydraulic Press Brick Co., 6618 N. Tidewater Rd., Mooresville, IN 46158, cell phone: (317) 997-9860, plant phone: (317) 831-0710, e-mail: tmorris@hpbhaydite.com, website: http://www.hpbhaydite.com. Prior to bidding, the Contractor's concrete producer shall contact Tom Morris for thorough and specific discussion regarding internal cure concrete materials, mix design review, material handling, batching and delivery procedures, testing, and Mr. Morris' and Hydraulic Press Brick representation on this project, so as to allow the Contractor to submit a complete and accurate bid for the successful completion of the work. The Contractor is advised that the special provisions for internal cure concrete in these contract documents are designed specifically for the "Haydite" fine lightweight aggregate by "Hydraulic Press Brick Company", and that these special provisions do not readily apply to other fine lightweight aggregate products for internal cure concrete.

- Minimum Expanded Shale Lightweight fine aggregate absorption: 15%

- Minimum Lightweight aggregate at 15% or greater absorption: 40% natural sand replacement based on Standard INDOT Class "C" Bridge Deck mix designs.
• Water shall meet ACI 318.
• Air-entraining admixtures shall meet ASTM C260, and shall be certified by the producer to have demonstrated satisfactory performance with ESCS concrete mixtures.
• Set-controlling and water-reducing admixtures shall meet ASTM C494 and the manufacturer’s recommendations.
• Fly ash shall be Type C and meet ASTM C618. Fly ash shall not be used with a Type 1P cement.
• Ground granulated blast-furnace slag shall meet ASTM C989. Ground granulated blast-furnace slag shall not be used with a Type 1S cement.
• Silica fume shall not be used in the Internally Cured concrete mix.
• Cement shall be stored in accordance with ACI 318.
• Total fine aggregate volume shall not be less than 35% or more than 45% of the total aggregate volume of the mix design.
• The concrete mixture proportions shall be prepared by the concrete provider in accordance with ACI 318 to meet strength and other requirements as specified, subject to approval by the Engineer.
• The concrete shall be batched and mixed in accordance with the applicable sections of ACI 301 and ASTM C94.

Internally cured structural concrete shall not be cured by a membrane forming curing compound for the curing of the concrete. An approved evaporation retardant, (“Confilm” by “Master Builders” or approved equal), shall be applied to the exposed poured concrete surface immediately after screeding and shall also be applied immediately after tining. Additional applications of approved evaporation retardant may be applied if drying is observed prior to sufficient curing. Curing by wetted burlap, kept wet under visqueen and sufficiently secured over the exposed concrete during curing is the preferred curing method for internally cured structural concrete. The Contractor's proposed curing method shall be approved by the Engineer prior to the work.

The concrete producer shall be responsible for the performing of the work in accordance with the following best practice procedures for handling fine lightweight aggregate at the batch plant:

1. When ordering Fine Lightweight Aggregate (FLWA), be sure to order enough material to cover production-day testing requirements. Consult the lightweight aggregate supplier to assist with material ordering, mix design support, and testing.

2. After receiving the FLWA, ensure the material is wetted for a minimum of 72 hours prior to drainage and drained for 24 to 30 hours prior to usage. Prior to trial batch testing, a separate pile must be extracted from the main pile, be "turned-over", and mixed well before sampling the FLWA for moistures properties. Follow ASTM D75 or AASHTO T2 sampling procedure.
3. Fine Lightweight aggregate (FLWA) material shall be kept in a separate pile(s), with a water source available to wet the material continuously for a minimum of 72 hours or until the moisture content can consistently be maintained at or above the trial batch absorption percentage.

4. Manipulation of the pile to ensure consistent saturation throughout may be necessary. Wetting may be accomplished by using an overhead watering system or by using soaker hoses or sprinklers strategically placed on top of the pile to wet the entire amount of FLWA. If steady rain of comparable intensity occurs, the wetting system may be turned off.

5. Prior to the day of the actual pour, turn the watering system off and allow the material to drain for 24 to 30 hours. Conduct moisture testing shortly after the 24 to 30 hour drain time to determine the FLWA absorption and free water percentage.

6. When charging the plant or when taking test samples, the loader operator should elevate the loader bucket above the bottom of the pre-wetted lightweight aggregate pile to avoid scooping-up excessively wet material at the base of the pile.

7. On the day of production, a separate pile shall be extracted from the main pile, be "turned-over", and mixed well before sampling and testing the FLWA for moisture properties. Follow ASTM D75 or AASHTO T2 sampling procedure.

8. If the job has been postponed until the next morning, resume wetting long enough to allow a 12 to 15 hour drain time.

9. The lightweight aggregate producer shall conduct specific gravity and moisture absorption testing from the actual FLWA material to be delivered to the concrete producer. The specific gravity value and absorption percentage will be reported to the concrete producer prior to production day.

10. The lightweight aggregate producer’s reported absorption percentage shall be used as the minimum absorption percentage on the day of the actual pour; the production-day absorption percentage must meet or exceed the lightweight aggregate producer’s reported absorption percentage.

11. It is recommended that the concrete producer perform moisture properties testing on the delivered FLWA material prior to production day.

12. On production day, the producer shall perform testing on the FLWA to establish FLWA moisture properties.

13. Testing shall begin by taking a sample of the FLWA material from the extracted portion of the main pile in accordance with ASTM D75 or AASHTO T2. A 600 gram sample shall be weighed, then centrifuged to determine the absorption percentage of the FLWA. The centrifuge method shall be used to determine the absorption percentage - three minutes at 2000 RPM is required. If a centrifuge is not used, the “Paper-Towel” test method must be performed to determine the FLWA absorption and free water percentages.

14. If rain water is the source of wetting the FLWA, conduct periodic moisture absorption testing to ensure the absorption percentage meets or exceeds the trial batch absorption percentage. The centrifuge method shall be used to determine the moisture properties -
three minutes at 2000 RPM is required. If a centrifuge is not used, the "Paper-Towel" test method must be performed to determine the FLWA absorption and free water percentages.

The Contractor shall form and pour the bridge bents, piers, and bridge slab in one continuous monolithic pour.

The Contractor shall be responsible for taking all necessary precautions, such as pouring early in the day, providing a watchman after hours, etc., to avoid vandalism or other damage to the concrete during the curing period of the concrete.

The Contractor shall provide concrete testing by an independent qualified technician in accordance with the INDOT manual on the minimum frequency of testing for slump, air, yield, and sufficient numbers as approved by the Engineer of either standard flexural strength beams or standard compression strength cylinders. Initial testing for each day’s pour shall be at the beginning of the pour. No substandard materials shall be used in the project, and all quantities of materials related to substandard testing shall be rejected and removed from the project. The Contractor shall promptly provide all test reports to the Engineer as soon as possible.

The Contractor shall be responsible for providing the necessary testing equipment and for having enough flexural beams or compression cylinders to show test report results of the achieving of minimum 550 psi flexural strength which shall be the minimum strength for allowing anything more than foot traffic on the cured concrete. When standard compression cylinders are used, the results shall be converted to standard flexural beam strength by the proper conversion factor as approved by the Engineer. The Contractor shall demonstrate sufficient flexural strength in the bridge slab by flexural strength beam or cylinder compression testing.

The Contractor shall provide job mix formula information, including all concrete components and admixtures, to the Engineer, sufficiently in advance of the work to allow for review and approval or rejection. The approved job mix formula information shall be written on the first concrete load ticket provided at the site prior to the start of the pour for verification.

The Contractor shall perform all work in accordance with all applicable INDOT Standard Specifications, including but not limited to the specifications for forming, pouring, screeding, tining, curing, preparation for surface seal, etc.

The Contractor shall provide a detailed plan for the Contractor’s proposed curing operations, including all specific curing materials and methods to be used in accordance with the INDOT standard specifications to the Engineer for review and approval or rejection, sufficiently in advance of the work. Approval of the Contractor’s curing plan by the Engineer shall not relieve the Contractor of the responsibility to provide complete and effective curing methods continuously from the time of the pour to the time of acceptance of minimum 550 psi flexural strength by the Engineer. Any discontinuation of curing methods for whatever reason prior to acceptance of curing by the Engineer shall involve the extended time of curing methods as directed by the Engineer. Curing methods shall not affect the tining and finishing of the concrete.

The Contractor shall be responsible for any repairs or removal and replacement of all or portions of the work due to any vandalism, other damage, or detrimental random cracking prior to the acceptance of the project as deemed necessary by the Owner at the Contractor’s expense.
The Contractor shall be responsible for all aspects of the design, installation, accuracy, performance, and removal of all formwork and falsework. The Contractor shall submit the Contractor's formwork and falsework plan detail drawings stamped certified by a structural engineer currently registered in the State of Indiana and experienced in preparing and certifying bridge formwork and falsework design detail drawings for projects of similar or greater scope for the type of bridge in this project. The Engineer will not review or approve the certified formwork and falsework plans with respect to sufficient loading capacity and prevention of detrimental deflection with respect to the bridge concrete pour loading, screed equipment loading, and other miscellaneous loading which shall be the Contractor's responsibility to certify as sufficient with appropriate factor of safety for the successful completion of the work. Prior to removal of the falsework from the support of the cured concrete, the Contractor shall demonstrate sufficient strength test results to the Engineer for approval of falsework removal by the Engineer.

The "Type 1A Joint" and "Expanded Polystyrene" features as shown on the "Bent Section" detail in the plan drawings shall be in accordance with INDOT Standard Drawings E609-RCBA-01 and E609-BRJT-01, and shall be included in the unit price per cubic yard of the concrete item.

The Contractor shall be responsible for completing and successfully performing a 'dry run' of the bridge deck floor surface screeding equipment, including accurate setting and adjustments accurately made to ensure the successful screed finishing of the concrete bridge slab pour while ensuring the prevention of detrimental deflections in accordance with the screed table information in the plan drawings. No concrete shall be poured until the Contractor has successfully demonstrated to the Engineer that all coping and screed points as described in the plans are confirmed by the Contractor to be accurately and rigidly set and fixed in place for successful screeding in accordance with the Contract Documents and intent of the project.

The Contractor is advised that Starke County is extremely concerned about the need for the Contractor and the Contractor's Concrete Supplier to provide a continuous supply of concrete trucks so as to provide a continuous bridge concrete pour, without excess delay between the pouring of individual concrete truck loads, as specified herein. The Contractor and the Contractor's Concrete Supplier shall very carefully schedule the date, time, and all related circumstances of the bridge concrete pour to ensure that the time period between the completion of any given concrete truck's pouring and the start of the next concrete truck's pouring shall not exceed 20 minutes as timed by the Engineer.

Any exceeding of the allowable 20 minutes shall be subject to a $500 (five hundred dollar) penalty. Any additional delays of 5 minute increments beyond the initial 20 minute delay shall be subject to a $500 (five hundred dollar) penalty per 5 minute increment as timed by the Engineer. The allowable time between the pouring of concrete trucks shall also apply to any trucks ordered to complete the bridge concrete pour, and any concrete trucks rejected due to exceeding the 90 minute allowable time between batching and pouring, or rejected due to failed testing of concrete at the site.

23. REINFORCING STEEL BARS, EPOXY COATED

*Prevailing INDOT Standard Specification Section: 703*

All grade 60 epoxy coated reinforcing steel shall be used for this project.

The Contractor shall provide sufficiently rigid and accurately sized epoxy coated steel chairs to successfully provide the spacing between the various reinforcing steel bars and mats, and for
the various specified clearances between reinforcing steel bars and concrete surfaces. The Contractor shall ensure that sufficient chairs are provided and spaced close enough together to eliminate the possibility of reinforcing steel sag. Where deemed necessary by the Engineer to eliminate reinforcing steels sag, the Contractor shall add additional chairs.

Chairs shall not be measured or paid for directly, but shall be included in the cost of the reinforcing steel unit price as bid.

Where any epoxy coating is damaged so as to uncover the reinforcing steel or chairs in the project, the Contractor shall sufficiently clean the damaged areas and brush on liquid epoxy material to dry prior to the concrete pour.

**24. GROUT FOR RIP RAP**

*Prevailing INDOT Standard Specification Section: 616*

All work, including but not limited to, materials, equipment, and sufficient labor for effective working of the grout into the Rip Rap voids as approved by the Engineer shall be included in the unit price per cubic yard of the item as bid. Sufficiently in advance of the work, the Contractor shall provide the Engineer with the proposed job mix formula for the grout, and the Contractor's proposed detailed plan for sufficient equipment, labor, and methods for the Engineer's approval.

The pay item quantity as established includes quantity for grout to be used as indicated on the plan drawings, and additional undistributed quantity to be used only as approved by the Engineer in advance of the work.

If the Engineer determines that grout for rip rap is to be used at the vicinity of proposed guardrail posts, the Contractor shall provide a vertical PVC pipe or other approved suitable block-out method to receive the guardrail post through the grouted rip rap after grouting is completed. No measurement or payment shall be made for the vertical PVC pipe or other approved block-out method.

**25. SURFACE SEAL**

*Prevailing INDOT Standard Specification Section: 709*

The Contractor shall submit sufficient manufacturer's information to the Engineer for the specific Portland cement concrete sealer material proposed by the Contractor to be used on this project, sufficiently in advance of the work to allow for the Engineer's review and approval or rejection of the material. Materials from the INDOT approved list are preferred for this project.

Surface seal is required at the bridge slab, approach slabs, and portions of the bents and piers as per the plan drawing details.

The Contractor shall ensure and demonstrate to the Engineer that the surface seal material shall be compatible with all curing methods used on the project, sufficiently in advance of the use of the curing methods.

The Contractor shall provide the Engineer with the manufacturer's recommendations for the storage, handling, use, and any safety precautions for the approved surface seal material in advance of the work.
The Contractor shall ensure sufficient surface preparation, qualified labor, mixing and application equipment, and quantity of sealing material prior to the start of the work.

The Contractor shall provide all cleaning, sandblasting, priming, etc. as necessary to successfully complete the work in accordance with the INDOT standard specifications and the approved sealing material manufacturer's recommendations. All incidentals shall be included in the unit price for the area of the work in square yards.

26. CONSTRUCTION SIGN, A, MODIFIED

*Prevailing INDOT Standard Specification Section: 801*

Construction Sign, A is modified for this project to include a Type B flashing warning light per each sign, to be included in the cost of the sign. The Contractor shall be responsible for the placement of the planned construction signs and barricades prior to the start of any of the other work. The Contractor shall continuously maintain the planned construction signs, warning lights, and barricades throughout the project, promptly replacing light bulbs, batteries, and damaged or otherwise unacceptable signage and barricades as necessary. The Contractor shall keep signs and barricades clean, and shall ensure that barricades are set to close off the roadway securely on a daily basis.

Other traffic control signage beyond the project vicinity may be placed and maintained by Starke County as deemed necessary by Starke County, independent of the Contractor's construction signs and barricades per the Contract Documents. The Contractor shall not open the new bridge to traffic prior to the specific expressed direction from the County.

27. BARRICADE, III-B

*Prevailing INDOT Standard Specification Section: 801*

28. TYPE 3 OBJECT MARKER SIGN ON TYPE 'A' POST

*Prevailing INDOT Standard Specification Section: 802*

Applicable INDOT Standard Drawings include: E 808-MKNB-03

29. GUARDRAIL REFLECTOR

*Prevailing INDOT Standard Specification Section: 804*

The 2-way, 2-sided reflective sheeting, white, hi-intensity grade "No. 567 Triangular Guardrail Delineator" by "AKE Corporation", 6318 W. State Street, Wauwatosa, WI 53231, (414) 475-5020, is specified for this project.

Reflective sheeting shall be amber on one side and white on the other side of each reflector. For approaching traffic, white reflective sheeting shall be visible on the right side guardrail, and amber on the left side guardrail for both bridge approaches.

The Contractor shall install the reflectors in accordance with the manufacturer's recommendations, and plan details. The Contractor shall provide coordination as needed between the Subcontractors installing the reflectors and the guardrail.
30. **MULCHED SEEDING, TYPE ‘R’**

*Prevailing INDOT Standard Specification Section: 627*

The work shall include all incidentals, including but not limited to mulch, fertilizer, water, etc..

The Contractor shall guarantee the establishment of grass at all areas seeded in accordance with the same Special Provisions for Slope Stabilization seeding for this project.

Any and all seeding, including all incidentals to establish grass successfully, at the Contractor's staging and stockpiling areas beyond the project limits shall be completed and guaranteed by the Contractor at the Contractor's cost.

31. **REMOVAL OF EXISTING CONCRETE FOUNDATION PORTIONS, UNDISTRIBUTED**

*Prevailing INDOT Standard Specification Section: 203*

The Contractor is advised that it is anticipated that existing concrete foundation portions from a former bridge predating the existing bridge may be encountered during the bridge replacement project. Where such materials are encountered, and are determined by the Engineer to be in conflict with the bridge replacement project, the Contractor shall remove portions of the encountered materials as directed by the Engineer.

The Contractor shall immediately contact the Engineer upon encountering any such materials. The Engineer shall determine neat line removal volume measurement of any portions to be removed. Removal shall include the volume of concrete portions and all contents such as reinforcing steel, etc., to be properly disposed away from the site by the Contractor.

The work shall be considered to be beyond the removal of the present structure per that established pay item.

Incidental saw cutting of concrete portions to remain in place as directed by the Engineer as well as incidental excavation, grading and compaction of existing approved soils shall be included in the cost of the neat line CYD concrete removal volume.

The unit price for the work shall not exceed 10x the unit price per cubic yard for common excavation as bid by separate item for this project.

Any necessary compacted backfill from borrow as determined by the Engineer at neat line volume shall be measured and paid under the separate established pay item for undistributed borrow.

32. **BENCHMARK**

*Prevailing INDOT Standard Specification Section: 615*

The Contractor shall provide the bench mark tablet marker. The bench mark tablet marker shall be "CD2B" as produced by "Berntsten" (800) 518-0934 or approved equal. The bench mark tablet marker shall have an open equilateral triangle symbol at the center, and shall include the
text "Starke County Bench Mark" centered at 12 o'clock, and "Bridge 36" centered at 6 o'clock with all capital letters. The accurate elevation shall not be stamped on the in-place bench mark tablet marker by the Contractor in the field.

The Contractor shall accurately establish the installed bench mark tablet marker's elevation, at new Bridge 36 under the supervision of a Professional Land Surveyor currently licensed in the State of Indiana, in accordance with the following instructions. The field notes with the accurate established bench mark elevation information for new Bridge 36 shall be provided to the Starke County Surveyor in a neat, legible manner, clearly indicating the established accurate elevation. The location of the bench mark shall be in the new bridge concrete as indicated on the plan drawings, and shall be placed so that a surveyor's elevation rod on the bench mark will not be obstructed by the bridge guard rail.

All incidentals shall be included in the lump sum unit price for the item.

The following instructions for establishing the new benchmark elevation information apply to the bridge as indicated:

The elevation of the new bench mark is to be established by running a closed differential level loop from Starke County benchmark designated as Starke Bridge #38. This benchmark is located along the south side of C.R. 25 North, approximately 0.3 miles East of C.R. 800 East. From Bridge No. 36 the benchmark is approximately 2.7 miles east and is further described as:

STARKE BRIDGE #38
LOCATED IN THE SOUTHEAST QUARTER OF SECTION 16, TOWNSHIP 33 NORTH, RANGE WEST, WASHINGTON TOWNSHIP, STARKE COUNTY, INDIANA, TOP OF CHISELED SQUARE IN THE SOUTHWEST CORNER OF CONCRETE GUARDRAIL OF COUNTY ROAD 25 NORTH BRIDGE OVER EAGLE CREEK, 0.5 FEET ABOVE ROAD GRADE, 1.0 FEET NORTHEAST OF GAS WARNING MARKER

Record NAVD 88 Elevation: 712.29 feet

33. W BEAM GUARDRAIL, 6'-3" POST SPACING (29")

Prevailing INDOT Standard Specifications 601

Applicable INDOT Standard Drawings Include: E 601-WBGC-01, -02, and -03

The Contractor shall merge the applicable plan drawing details with the applicable INDOT Standard Drawings. In the event of any discrepancy, the plan drawing details shall govern.

34. PILE, CONCRETE, EPOXY COATED STEEL SHELL ENCASED, 0.312 IN DIA.

Prevailing INDOT Standard Specifications Section: 701

The itemized bid includes an alternate item to be used only as approved and directed by the County regarding epoxy coated steel pile shells.

The work involves the use of epoxy coated pile shells in lieu of plain steel pile shells at piers 2 and 3 only, at an estimated maximum 15' of epoxy coated piling material per pile, welded above plain steel piling material.
The work shall be as described in the specification for the plan pay item Piling, except for the added epoxy coating and this specification.

The Contractor shall provide a certification for the applied epoxy coating material in advance of the work, and the epoxy coating materials shall otherwise be in accordance with INDOT standard specifications.

The Contractor shall apply an approved epoxy coating field application material to any weld areas as well as other areas requiring epoxy coating repairs on the piles as directed.

Reinforcing steel inside of the piling shell as indicated on INDOT Standard Drawing E 701-B PIL-01 shall be required for this project.

35. **W BEAM GUARDRAIL HEIGHT TRANSITION, (29” TO 27 ¾”)**

*Prevailing INDOT Standard Specification Section: 601*

*Applicable INDOT Standard Drawings include: E 601 – WBGC -01, -02, and -03*

The Contractor shall merge the applicable plan drawing details with the applicable INDOT Standard Drawings. In the event of any discrepancy, the plan drawing details shall govern.
PROJECT SPECIFICATIONS
ALTERNATE ITEMS

1A. ADDITIONAL COMMON EXCAVATION, UNDISTRIBUTED

Prevailing INDOT Standard Specification Section: 203

The itemized bid includes an undistributed alternate item for Additional Common Excavation to be used only as deemed necessary and approved by the Engineer at specific areas where unsuitable soils require undercutting beyond the limits of the LSUM base bid item for Site Grading. The Engineer shall decide on suitability of soils. Moisture content alone shall not determine unsuitability of soils, and the Contractor shall be responsible for moisture content control operations under the LSUM based bid item for Site Grading including at the limits of Site Grading as per the details and intent of the plan documents.

The Contractor shall immediately notify the Engineer upon encountering any potentially unsuitable soils beyond the limits of the base bid item for Site Grading. The Engineer shall investigate the soils as soon as possible. The Engineer will direct the Contractor on the suitability or unsuitability of the soil. The Contractor shall assist the Engineer with any test digging as necessary to determine the extent of soils deemed to be unsuitable. No compensation shall be made to the Contractor for this assistance by test digging. The Engineer will direct the Contractor with neat line volume by specific length, width, and depth of any necessary undercutting of unsuitable soils. No payment shall be made for any over-excavation beyond the neat line volume of undercutting at specific areas as directed. Proof rolling testing, compaction, and moisture control operations at the bottom of the undercutting area by the Contractor shall be included in the unit price per cubic yard of the item.

2A. BORROW, UNDISTRIBUTED

Prevailing INDOT Standard Specification Section: 203

The itemized bid includes an undistributed alternate item for Borrow to be used only as deemed necessary and approved by the Engineer at specific areas to replace removed concrete foundation portions predating the existing bridge, or soils deemed unsuitable by the Engineer and approved by the Engineer to be undercut beyond the limits of the of the LSUM base bid item for Site Grading. The soil material shall be a well-draining granular soil, suitable for pavement subgrade. The Contractor shall provide a sample of the soil material to the Engineer sufficiently in advance of the work for approval or rejection. The Contractor shall provide proctor and in-place density testing and compaction of the borrow soil in maximum 8" loose lift thickness to minimum 95% maximum dry density. No payment shall be made beyond neat line in-place volume as specifically approved by the Engineer. The Contractor shall perform moisture control operations as needed to achieve compaction. All work shall be included in the unit price per cubic yard of the item.
3A. CONCRETE, CLASS C, MODIFIED

Prevailing INDOT Standard Specification Section: 702

The itemized bid includes an alternate pay item for "Concrete, Class C, Modified" per the following description to be used in lieu of the base bid item "Internally Cured Structural Concrete, Class C", only if directed by the Engineer following the review of the bid. The Contractor is advised that while the County is interested in using "Internally Cured Structural Concrete, Class C", the County is also interested in the comparative cost of "Concrete, Class C, Modified" as described below. The Contractor shall bid accordingly.

The concrete shall be similar to INDOT Class 'C', but shall be modified to produce concrete compressive strength of minimum 4,500 psi.

The Contractor shall form and pour the bridge bents, piers, and bridge slab in one continuous monolithic pour.

The Contractor shall be responsible for taking all necessary precautions, such as pouring early in the day, providing a watchman after house, etc., to avoid vandalism or other damage to the concrete during the curing period of the concrete.

The Contractor shall provide concrete testing by independent qualified technician in accordance with the INDOT manual on the minimum frequency of testing for slump, air, yield, and sufficient numbers of either standard flexural strength beams or standard compression strength cylinders. Initial testing for each day's pour shall be at the beginning of the pour. No substandard materials shall be used in the project, and all quantities materials related to substandard testing shall be rejected and removed from the project. The Contractor shall promptly provide all test reports to the Engineer as soon as possible.

The Contractor shall be responsible for providing the necessary testing equipment and for having enough flexural beams or compression cylinders to show test report results of the achieving of minimum 550 psi flexural strength which shall be the minimum strength for allowing anything more than foot traffic on the cured concrete. When standard compression cylinders are used, the results shall be converted to standard flexural beam strength by the proper conversion factor as approved by the Engineer. The Contractor shall demonstrate sufficient flexural strength in the bridge slab by flexural strength beam or cylinder compression testing prior to removing the supporting falsework when the bridge is deemed to be self-supporting after sufficient curing.

The Contractor shall provide job mix formula information, including all concrete components and admixtures, in accordance with INDOT Standard Specifications for Class 'C' Concrete, Modified to the Engineer, sufficiently in advance of the work to allow for review and approval or rejection. The approved job mix formula information shall be written on the first concrete load ticket provided at the site prior to the start of the pour for verification.

The Contractor shall perform all work in accordance with all applicable INDOT Standard Specifications, including but not limited to the specifications for forming, pouring, screeding, tined finishing, curing, preparation for surface seal, etc.

The Contractor shall provide a detailed plan for the Contractor's proposed curing operations, including all specific curing materials and methods to be used in accordance with the INDOT standard specifications to the Engineer for review and approval or rejection, sufficiently in
advance of the work. Approval of the Contractor's curing plan by the Engineer shall not relieve the Contractor of the responsibility to provide complete and effective curing methods continuously from the time of the pour to the time of acceptance of minimum 550 psi flexural strength by the Engineer. Any discontinuation of curing methods for whatever reason prior to acceptance of curing by the Engineer shall involve the extended time of curing methods as directed by the Engineer. Curing methods shall not affect the tining and finishing of the concrete.

The Contractor shall be responsible for any repairs or removal and replacement of all or portions of the work due to any vandalism, other damage, or detrimental random cracking prior to the acceptance of the project as deemed necessary by the Owner at the Contractor's expense.

The Contractor shall be responsible for all aspects of the design, installation, accuracy, performance, and removal of all formwork and falsework. The Contractor shall submit the Contractor's formwork and falsework plan detail drawings stamped certified by a structural engineer currently registered in the State of Indiana and experienced in preparing and certifying bridge formwork and falsework design detail drawings for projects of similar or greater scope for the type of bridge in this project. The Engineer will not review or approve the certified formwork and falsework plans with respect to sufficient loading capacity and prevention of detrimental deflection with respect to the bridge concrete pour loading, screed equipment loading, and other miscellaneous loading which shall be the Contractor's responsibility to certify as sufficient with appropriate factor of safety for the successful completion of the work.

The "Type 1A Joint" and "Expanded Polystyrene" features as shown on the "Bent Section" detail in the plan drawings shall be in accordance with INDOT Standard Drawings E609-RCBA-01 and E609-BRJT-01, and shall be included in the unit price per cubic yard of the concrete item.

The Contractor shall be responsible for completing and successfully performing a 'dry run' of the bridge deck floor surface screeding equipment, including accurate setting and adjustments accurately made to ensure the successful screed finishing of the concrete bridge slab pour while ensuring the preventing of detrimental deflections in accordance with the screed table information in the plan drawings. No concrete shall be poured prior to the Contractor has successfully demonstrated to the Engineer that all coping and screed points as described in the plans are confirmed by the Contractor to be accurately and rigidly set and fixed in place for successful screeding in accordance with the Contract Documents and intent of the project.

**4A. CRUSHED LIMESTONE, NO. 73, UNDISTRIBUTED**

*Prevailing INDOT Standard Specification Section: 303*

The itemized bid includes an undistributed alternate item for Crushed Limestone, No. 73 to be used only as directed by the Engineer. The undistributed alternate item shall be used only as deemed necessary by the Engineer. The undistributed alternate item shall be used only at specific neat line areas and depths as directed by the Engineer for any areas as deemed necessary by the Engineer beyond the work included in the base bid items.

All incidentals for successful completion of the work included but not limited to grading and compaction shall be included in the unit price per ton of the item. Prior to the work, the Contractor shall provide certification of the material as INDOT No. 73 crushed limestone. The Contractor shall provide weight tickets with each truckload.
5A.  TOPSOIL, UNDISTRIBUTED

*Prevailing INDOT Standard Specification Section: 621*

The work shall be as directed by the Engineer only and shall include all incidentals in the unit price.

The Contractor shall take all reasonable steps to reuse existing topsoil from the site. No existing topsoil materials shall be removed from the site, and existing topsoil materials shall be carefully handled by the Contractor, to be stockpiled separately from other soils, and shall be protected from erosion by the Contractor for reuse in the project. If the Contractor fails to reasonably handle, protect, and reuse existing topsoil as deemed by the Engineer. The Contractor shall be responsible for providing replacement topsoil at the Contractor's cost at a volume determined by the Engineer to equal the existing available topsoil.

6A.  REINFORCE CONCRETE BRIDGE APPROACH PAVEMENT, 10"

*Prevailing INDOT Standard Specification Section: 609*

The Contractor shall be responsible for taking all necessary precautions, such as pouring early in the day, providing a watchman after hours, etc., to avoid vandalism or other damage to the concrete during the curing period of the concrete.

The Contractor shall provide concrete testing by independent qualified technician in accordance with the INDOT manual on the minimum frequency of testing for slump, air, yield, and sufficient numbers of either standard flexural strength beams or standard compression strength cylinders. Initial testing for each day’s pour shall be at the beginning of the pour. No substandard materials shall be used in the project, and all quantities of materials related to substandard testing shall be rejected and removed from the project. The Contractor shall promptly provide all test reports to the Engineer as soon as possible.

The Contractor shall be responsible for providing the necessary testing equipment and for providing enough flexural beams or compression cylinders to show test report results of the achieving of minimum 550 psi flexural strength which shall be the minimum strength for allowing anything more than foot traffic on the cured concrete. When standard compression cylinders are used, the results shall be converted to standard flexural beam strength by the proper conversion factor as approved by the Engineer.

The Contractor shall provide job mix formula information, including all concrete components and admixtures, in accordance with INDOT Standard Specifications for Portland cement concrete pavement (PCCP) to the Engineer, sufficiently in advance of the work to allow for review and approval or rejection. The approved job mix formula information shall be written on the first concrete load ticket provided at the site prior to the start of each day's pour for verification.

The Contractor shall perform all work in accordance with all applicable INDOT Standard Specifications, including but not limited to the specifications for subgrade and subbase compaction and grading, forming, pouring, screeding, tining, curing, preparation for surface seal, etc.

The Contractor shall provide a detailed plan for the Contractor's proposed curing operations, including all specific curing materials and methods to be used in accordance with the INDOT
Standard Specifications to the Engineer for review and approval or rejection, sufficiently in advance of the work. Approval of the Contractor's curing plan by the Engineer shall not relieve the Contractor of the responsibility to provide complete and effective curing methods continuously from the time of the pour to the time of acceptance of minimum 550 psi flexural strength by the Engineer. Any discontinuation of curing methods for whatever reason prior to acceptance of curing by the Engineer shall involve the extended time of curing methods as directed by the Engineer. Curing methods shall not affect the tining and finishing of the concrete.

The Contractor shall be responsible for any repairs or removal and replacement of all or portions of the work due to vandalism, other damage, or any detrimental random cracking prior to the acceptance of the project as deemed necessary by the Owner at the Contractor's expense.

7A. SURFACE MILLING, ASPHALT, 1 1/2", UNDISTRIBUTED

*Prevailing INDOT Standard Specification Section: 306*

The Contractor shall take all reasonable precautions to protect existing pavement to remain adjacent to the project limits as shown in the Contract Documents. The itemized bid for this project includes an alternate pay item of undistributed quantity for surface milling of asphalt pavement and other alternate pay items for HMA pavement at undistributed quantities to be used only as directed by the Engineer for pavement repairs when determined to be needed in spite of the Contractor's taking of all reasonable precautions to protect the existing adjacent pavement.

If, however, it is deemed by the Engineer that existing adjacent pavement to remain has been damaged due to the Contractor not taking all reasonable precautions to protect the pavement, or otherwise due to any negligence of the Contractor as deemed by the Engineer, the Contractor shall make repairs to the damaged pavement as directed by the Engineer to the approval of the Starke County Highway Department, at the Contractor's own cost, with the repairs in accordance with the project Specifications.

Surface milling shall be measured and paid at neat line dimensions and surface area as determined by the Engineer.

All related incidental work shall be included in the cost of the approved surface milling area per SYD.

8A. HMA SURFACE, TYPE A, UNDISTRIBUTED

*Prevailing INDOT Standard Specification Section: 402*

The itemized bid for this project includes an alternate pay item for HMA surface, type 'A' at undistributed quantity for repairs to existing adjacent pavement only as directed by the Engineer, and as described further in the special provisions for alternate item 11A of this project.

HMA surface shall be measured and paid according to the neat line area of application as determined by the Engineer, at the 165#/SYD rate of application.
All related incidental work shall be included in the cost of the approved dimensions per TON of HMA placed.

9A. ASPHALT FOR TACK COAT, UNDISTRIBUTED

*Prevailing INDOT Standard Specification Section: 406*

The itemized bid for this project includes an alternate pay item for asphalt for tack coat at undistributed quantity for repairs to existing adjacent pavement only as directed by the Engineer, and as described further in the special provisions for alternate item 11A of this project.

Asphalt for tack coat shall be measured and paid according to the neat line dimensions and surface area as determined by the Engineer.

All related incidental work shall be included in the cost of the approved tack coat area per SYD.

10A. HMA FOR PATCHING, TYPE A, UNDISTRIBUTED

*Prevailing INDOT Standard Specification Section: 402*

The itemized bid for this project includes an alternate pay item for HMA for patching, type 'A' at undistributed quantity for repairs to existing adjacent pavement only as directed by the Engineer, and as described further in the special provisions for alternate item 11A of this project.

HMA for patching shall include full depth pavement patching in compacted lifts under 1½" HMA surface on tack coat. HMA for patching shall be HMA intermediate at minimum 660#/SYD (2 equal lifts) to maximum 990#/SYD (3 equal lifts) over compacted existing subgrade.

HMA patching shall be measured and paid according to the neat line dimensions, thickness, and area of application as determined by the Engineer.

All related incidental work, including but not limited to, saw cutting, full depth pavement milling, pavement removal, excavation, compaction of subgrade, placement and compaction of HMA, etc., shall be included in the cost of the approved dimensions per TON of HMA placed.

11A. PRESENT STRUCTURE, REMOVE, ALTERNATE

The itemized bid includes an Alternate Item for “Present Structure, Remove, Alternate”. This alternate item is the same as the Base Bid Item for “Present Structure, Remove”, except that for the Alternate Item, Starke County Highway Department shall be responsible for hauling away all materials from the removal of the present structure.

Following the review of the bids, Starke County will decide on the awarding of either the base bid item, or the alternate item for the removal of the present structure.

For the alternate item, the Contractor shall be responsible for: demolition of the present structure; breaking up or cutting all demolition debris to suitable size for hauling as approved by the County; sorting of all demolition debris prior to loading, and loading of sorted materials for specific truck loads as approved by the County; loading all demolition debris into County haul
trucks; all related coordination with the County in advance timely manner as approved by the County.

For the alternate item, the County shall be responsible for: providing haul trucks to the site following the Contractor's advance timely coordination; hauling all demolition materials from the site for disposal or salvage; unloading all hauled demolition materials for disposal or salvage.

The County shall have salvage rights to all demolition materials at the County's discretion.
MISCELLANEOUS SPECIFICATIONS

UTILITY COORDINATION

The Contractor shall be responsible for protecting all utility lines. The Contractor shall saw cut and remove any portion of inactive utility line features abandoned in place where these features are in conflict with the bridge replacement and related construction, at no additional cost to the project, including but not limited to buried abandoned lines and conduit as encountered.

In general, the Contractor shall be responsible for all necessary utility coordination as needed to successfully complete the bridge replacement as per the details and intent of the project.

NO CROSS SECTION SHEETS

The Contract Documents for this project shall not include cross section sheets in the plan drawing set. The Contractor shall bid and construct the project accordingly, as per the provided details and intent of the project.

POSSIBLE AWARDING OF PORTION

The Starke County Board of Commissioners reserves the right to award or not award portions of the project, including individual base bid items, individual alternate items, portions of individual base bid items, or portions of individual alternate pay items.

The Contractor shall bid on all base bid items and all alternate items.

The Starke County Board of Commissioners reserves the right to award all base bid items, selected base bid items, or portions of selected base bid items at the County's sole discretion, based on the County's review of the bid results. However, during the course of the project, portions of the alternate items may be used at the unit prices as bid as specifically directed by the Engineer.

The Contractor shall bid and construct the project accordingly.

ENVIRONMENTAL PERMITTING

At the time of the initial public Notice to Bidders, approval of an application for a US Army Corps/IDEM Permit was pending. Unless otherwise notified by addendum the Contractor shall assume the environmental permitting will be completed by the time of the release of the Notice To Proceed by the County. No mitigations are anticipated in connection with environmental permitting, however, any mitigation required by the environmental permitting agency during the bidding process will be provided to all bidders by addendum.

The Contractor shall construct the work so as to minimize impact to the stream, including avoiding of erosion and sedimentation.
STREAM SURFACE ELEVATIONS

Stream surface elevations may vary, and normal stream surface elevation is approximated on the plans only. The Contractor shall construct the project in accordance with the Contract Documents and intent of the project, regardless of varying stream surface elevation.

TEMPORARY ACCESS

The Contractor shall provide temporary access at existing approaches immediately adjacent to the bridge throughout construction, as indicated on the plan drawing details or as otherwise necessary. The Contractor shall be responsible for placing and maintaining aggregate wedges and/or grading as needed to allow the adjacent property owner access to the property throughout construction. Where appropriate, temporary access shall include a temporary aggregate-paved, or graded alternate route. The Contractor shall be responsible for prompt repairs and any necessary drainage and temporary erosion and sediment control measures as necessary to maintain suitable access. No measurement or payment will be made for all related incidental work, which is to be included in the cost of the project as bid. The Contractor shall coordinate with the adjacent property owner suitably in advance of the temporary access work, including initial construction and any alternate temporary route construction.

RESETTING OF MAILBOXES

The Contractor shall be responsible for temporary and permanent resetting of any existing mailboxes so as to avoid any interruption of mail delivery service, also including supplemental newspaper boxes. No measurement or payment will be made for all related incidental work which is to be included in the cost of the project as bid.

SUBSTANTIAL COMPLETION, PRE-FINAL INSPECTION

The Contractor shall advise the Engineer when all awarded portions of the project are substantially complete so that a pre-final inspection can be made with the Owner, the Engineer, and the Contractor.

A 'punch list' of required work items to complete the project will be given to the Contractor immediately following the pre-final inspection.

The Contractor shall have five (5) working days of suitable weather to complete the punch list, thus prior to substantial completion being achieved, the Engineer must be in agreement with the Contractor that no major items will be involved on the punch list and that the work is in fact substantially complete within the allowable contract time.

Upon completion of the punch list, the Contractor shall notify the Engineer so that a final inspection can be held to verify that the 'punch list' items are complete, and the Owner may accept the overall project.

The Contractor shall be charged liquidated damages at $1,000.00 per calendar day for each day or portion of a day beyond the allowed five (5) day 'punch list' period until the Owner accepts the overall project.
ITEMIZED BID
<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>ESTIMATED QUANTITY</th>
<th>UNIT</th>
<th>UNIT PRICE</th>
<th>UNIT PRICE OR LUMP SUM PRICE (WRITTEN OUT IN WORDS)</th>
<th>TOTAL COST</th>
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## STARKE COUNTY, INDIANA
### BRIDGE NUMBER 36 REPLACEMENT
#### ITEMIZED BID
##### Page 2 of 4

### BASE BID ITEMS

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>ESTIMATED QUANTITY</th>
<th>UNIT</th>
<th>UNIT PRICE (WRITTEN OUT IN WORDS)</th>
<th>TOTAL COST</th>
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<td>32</td>
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<td>33</td>
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<td>34</td>
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### TOTAL BASE BID ENTERED =

### ALTERNATE ITEMS

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<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>ESTIMATED QUANTITY</th>
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<td>6A</td>
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<td>7A</td>
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### ALTERNATE ITEMS

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<th>ITEM NO.</th>
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<tr>
<td>8A</td>
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<td>9A</td>
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</tbody>
</table>
The original signed bid must be submitted to the office designated in the Notice to Bidder by the specified opening date and time to receive consideration. The Contractor certifies that the information provided by it in its bid is accurate and complete. The execution of this bid is certification that the undersigned Contractor has read and understands the instructions, terms, conditions and specifications of this solicitation, and agrees to fulfill the requirements of any awarded contract at the prices proposed. This bid includes all costs necessary to provide all supervision, labor, services, materials, tools, equipment, supplies, insurance, permits, bonds, and other incidental items, whether or not specifically called for in the specifications and contract documents, to perform and complete in a workmanlike manner all work as specifically described under each item in the specifications and contract documents, and other work necessary to complete the project in accordance with the obvious or expressed intent of the specifications and contract documents.

Contractor’s Name: ____________________

Address: ____________________City, St, Zip ____________________

Signed By: ____________________ Title: ____________________ Date: ___________

Acknowledgement of Addenda: ____________________

Grand Total Base Bid = $ ______________