PROJECT

COUNTY COMMISSIONERS

COMPETITIVE SEALED BID DOCUMENTS PREPARED BY:

HOCKING ATHENS PERRY COMMUNITY ACTION AGENCY 3 Cardaras Dr. P.O. BOX 220 Glouster, Ohio 45732 740.767.4500 1.800.686.1093

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NOTICE TO CONTRACTORS

SECTION A

NOTICE TO CONTRACTORS

Sealed proposals for the ______ project will be received at the office of the ______ the maximum formula plans, specifications and bid forms may be secured by contacting the Community Development Division at the office of Hocking Athens Perry Community Action, 3 Cardaras Dr., Glouster, OH 45732, (740)-767-4500, for a non-refundable fee of \$20.00. Plans, specifications, and bid forms may also be downloaded from www.hapcap.org at no charge.

Each bid must be accompanied by either a bid bond, in an amount of 100% of the bid amount with a surety satisfactory to the aforesaid ______ County Commissioners, or by certified check, cashier's check, or irrevocable letter of credit from a solvent bank in the amount of not less than 10% of the bid amount in favor of the aforesaid ______ County Commissioners. Bid Bonds shall be accompanied by Proof of Authority of the official or agent signing the bond.

Bids shall be sealed and marked as ______ and mailed or hand-delivered to:

_____ County Commissioners

Attention of bidders is called to all of the requirements contained in this bid packet, particularly to the Federal Davis-Bacon Wages, various insurance requirements, various equal opportunity provisions, and the requirement for a payment bond and performance bond for 100% of the contract price.

No bidder may withdraw their bid within ninety (90) days after the actual date of the bid opening thereof. The _____ County Commissioners reserve the right to waive any informality or to reject any or all bids.

INSTRUCTIONS TO BIDDERS

SECTION B

1. <u>RECEIPT AND OPENING OF BIDS:</u> The _____ County Commissioners (herein called the "Owner"), invite bids on the form attached hereto, all blanks of which must be appropriately filled in. Bids will be received by the Owner at the office of the _____ County Commissioners, at ______ at which time they will be publicly opened and read aloud. The envelopes containing the bids must be sealed and addressed to ______ County Commissioners, at ______. Envelopes must be clearly designated for the ______.

The Owner may consider informal any bid not prepared and submitted in accordance with the provisions hereof and may waive any informalities or reject any and all bids. 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 shall not be considered. No bidder may withdraw a bid within ninety (90) days after the actual date of the opening thereof.

2. **PREPARATION OF BID:** Each bid must be submitted on the prescribed form and accompanied by the required form in Section F including a bid bond or certified check, the Non-Collusion Affidavit, Certification Regarding Debarment, Suspension, and Other Responsibility Matters Primary Covered Transactions, Experience Statement, Bonding and Insurance Requirements and the Statement on Delinquent Taxes. All blank spaces for bid prices must be filled in, in ink or typewritten, in both words and figures, and foregoing Certifications must be fully completed and executed when submitted.

The Bidder's total is his total bid based on his unit prices and lump sum prices and the estimated quantities shown on the plans. This figure is for information only at the time of opening bids. The owner will make the tabulation from the unit prices and lump sum prices bid. If there is an error in the total by the bidder, it shall be changed as only the unit prices and lump sum prices shall govern.

Each bid must be submitted in a sealed envelope, bearing on the outside, the name of the bidder, his/her address, and the name of the project for which the bid is submitted. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed as specified in the bid form.

- 3. <u>**TELEGRAPHIC MODIFICATION:**</u> Any bidder may modify his/her bid by telegraphic communication at any time prior to the scheduled closing time for receipt of bids, provided such telegraphic communication is received prior to the closing time, and provided further, the Owner is satisfied that a written confirmation of the telegraphic modification over the signature of the bidder was mailed prior to closing time. The telegraphic communication should not reveal the bid price, but should provide the addition or subtraction or other modification so that the final prices or terms will not be known by the Owner until the sealed bid is opened. If written confirmation is not received within two (2) days from the closing time, no consideration will be given to the telegraphic modification.
- 4. **METHOD OF BIDDING:** The Owner invites unit price/lump sum price bids as indicated in the Bid Form. If the lowest responsive bid received exceeds the amount of funds available to finance the contract, the Owner may:
 - a) Reject all bids;
 - b) Augment the funds available in an amount sufficient to enable award to the lowest responsive bidder or bidders; and

c) Take the base bid less a number of items as listed on the proposal form as to produce a net amount which is within available funds.

IF THE LOWEST RESPONSIVE BIDDER IS ABOVE 10% OF THE ESTIMATE, ALL BIDS MUST BE REJECTED.

The estimate on this project is: _____ Maximum Allowable Bid: \$67,600.00

- 5. <u>QUALIFICATIONS OF BIDDER</u>: The Owner may make such investigations as he/she deems 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 Owner that such bidder is properly qualified to carry out the obligations of the contract and to complete the work contemplated therein. Conditional bids will not be accepted. Past performance will be an evaluation criterion. Attention is called to Attachment A: QUALITATIVE and RESPONSIBLE CONTRACTOR CRITERIA
- 6. **<u>BID SECURITY</u>**: Each bid must be accompanied by cash, certified check of the bidder in the amount of 10% of the bid, or a bid bond prepared on the form entitled bid bond attached hereto, duly executed by the bidder as principal and having as surety thereon a surety company approved by the Owner.

Such cash, checks or bid bonds will be returned to all except the three lowest bidders within three (3) days after the opening of the bids, and the remaining cash, checks or bid bonds will be returned promptly after the Owner and the accepted bidder have executed the contract, or, if no award has been made within ninety (90) days after the date of the opening of bids, upon demand of the bidder at any time thereafter, so long as he/she has not been notified of the acceptance of his/her bid. Attorneys-in-fact who sign bid bonds or contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.

- 7. **LIQUIDATED DAMAGES FOR FAILURE TO ENTER INTO CONTRACT:** The successful bidder, upon his/her failure or refusal to execute and deliver the contract and bonds required within ten (10) days after he/she has received acceptance of his/her bid, shall forfeit to the Owner, as liquidated damages for such failure or refusal, the security deposited with his/her bid.
- 8. <u>CONDITIONS OF WORK:</u> Each bidder must inform himself/herself fully to the conditions relating to the construction of the project and the employment of labor thereon. Failure to do so will not relieve a successful bidder of his/her obligation to furnish all material and labor necessary to carry out the provisions of his/her contract. Insofar as possible, the contractor in carrying out the work, must employ such methods or means as will not cause any interruption of or interference with the work of any other contractor.
- 9. **OBLIGATION OF BIDDER:** At the time of the opening of bids, each bidder will be presumed to have inspected the site and to have read and to be thoroughly familiar with the plans and contract documents (including all addenda). The failure or omission of any bidder to examine any form, instrument or document shall in no way relieve any bidder from any obligation in respect of his/her bid.
- 10. **EXAMINATION OF SITE:** Each bidder shall, and is hereby directed to inspect the entire site of the proposed work and judge for himself/herself as to all the circumstances affecting the cost and progress of the work and shall assume all patent and latent risks in connection herewith.
- 11. **SOIL CONDITIONS:** Subject to the convenience of the Owners, prospective bidders will be permitted to explore the site by making borings or digging test pits. In such event, the work shall be done at the sole expense and risk of the bidder, and he/she shall maintain and restore the site to original condition.

The Owner does not guarantee the accuracy of any information or samples which it may have obtained from test borings or otherwise as to the kind or condition of the soil that may be encountered in the prosecution of the proposed work, neither does the Owner represent that the plans and specifications drawn are based upon any data so obtained. The Owner does not make any representation as to the soil which may be encountered or of soil or water which underlies the work or is adjacent thereto, including any difficulties that may be due to quicksand, or other unfavorable conditions that may be encountered in the work, whether apparent upon surface inspection or disclosed in the process of carrying forward the work.

- 12. **WORKING FACILITIES:** The plans/work specifications show, in the general manner, the existing structures and land available for construction purposes. The bidders must satisfy themselves of the conditions and difficulties that may be encountered in the execution of the work at this site.
- 13. **ADDENDA AND INTERPRETATIONS:** No official interpretation of the meaning of the plans, specifications or other pre-bid documents will be made to any bidder orally. Every request for such interpretation should be in writing addressed to Hocking Athens Perry Community Action and to be given consideration, must be received at least five (5) days prior to the date fixed for the opening of the bids. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the specifications which, if issued, will be mailed by certified mail or faxed with return receipt requested in both instances to all prospective bidders (at the respective addresses furnished for such purposes), not later than three (3) days prior to the date fixed for the opening of bids. Failure of any bidder to receive any such addendum or interpretation shall not relieve such bidder from any obligation under his/her bid as submitted. All addenda so issued shall become part of the contract documents.
- 14. **WATER SUPPLY:** All water for construction purposes, as well as the expense of having water conveyed about the work, must be provided by the Contractor and the cost of this work shall be included in the unit prices stipulated for the various items of the work to be done under this contract. The source, quality and quantity of water furnished shall, at all times, be satisfactory to the Engineer and/or Owner or their representatives.
- 15. **SIGNATURE OF BIDDERS:** The firm, corporate or individual name of the bidder must be signed in ink in the space provided for the signatures on the proposed blanks. In case of a corporation, the title of the officer signing must be stated and such officer must be thereunto duly authorized and the seal of said corporation duly affixed. In the case of a partnership, the signature of at least one of the partners must follow the firm name, using the term "member of the firm". In the case of an individual, use the terms "doing business as", or "sole owner". The bidder shall further state, in his proposal, the name and address of each person or corporation interested therein.
- 16. **<u>NOTICE OF SPECIAL CONDITIONS</u>**: Attention of the bidder is particularly called to those parts of the General Contract Conditions (Section C) and other contract documents and specifications which deal with the following:
 - a) Insurance requirements
 - b) Federal Labor Standards Provisions, including Davis-Bacon wage rates
 - c) Requirement for a payment bond and performance bond for 100% of contract price
 - d) Requirement that all subcontractors be approved by the Owner
 - e) Time-for-completion and liquidated damages requirements
 - f) Safety standards
 - g) Contractor's responsibility to obtain permits
 - h) Affirmative Action and Equal Opportunity provisions

- 17. <u>ADDITIONAL OBLIGATIONS UPON CONTRACT AWARD</u>: Upon award of the contract, but prior to execution of the final agreement and notice to proceed, the contractor shall submit all of the following documents, completed as required:
 - a) Acceptance of Notice of Award
 - b) Contract
 - c) Insurance certificate(s) and/or policy(ies), including Bureau of Workers' Compensation documentation
 - d) Performance bond
 - e) Certification of Bidder Regarding Section 3 and Segregated Facilities
 - f) Certification(s) of (all) Proposed Subcontractors Regarding Section 3 and Segregated Facilities
 - g) Contractor's Certification concerning Labor Standards and Prevailing Wage Requirements
 - h) (All) Subcontractor's Certification(s) concerning Labor Standards and Prevailing Wage Requirements.
 - i) ALL OF THE FOLLOWING IF CONTRACT EXCEEDS \$10,000.00:
 - Contractor's Section 3 Plan
 - Certification of Bidder Regarding Equal Employment Opportunity
 - Certification(s) by (all) Proposed Subcontractors regarding Equal Employment Opportunity
 - Certification by Contractor and Subcontractors of Compliance with Air and Water Acts

18. FOREIGN CORPORATIONS AND CONTRACTORS

A. Foreign Corporations

Definition: "Foreign Corporation" means a corporation incorporated under the laws of another state. No contract shall be entered into with a foreign corporation until the Secretary of State has certified that such corporation is authorized to do business in Ohio; and until, if the bidder so awarded the Contract is a person or partnership, it has filed with the Secretary of State Power of Attorney designating the Secretary of State as its agent for the purpose of accepting service of summons in any action brought under Section 153.05 of the Ohio Revised Code or under Sections 4123.01 to 4123.94, inclusive of the Revised Code.

Attachment A

ADDING "QUALITATIVE and RESPONSIBLE" CONTRACTOR CRITERIA TO THE _____ COUNTY INVITATION TO BID ON ALL CONSTRUCTION PROJECTS SUBJECT TO PREVAILING WAGE THRESHOLD STANDARDS

WHEREAS, the _____ County Board of Commissioners wish to add "Qualitative and Responsible" contractor criteria to the Invitation to Bid for _____ "County Appropriated" construction projects.

WHEREAS, the Commissioners desire to further ensure that the County's contractors are compliant with the law, financially stable, and capable of executing construction contracts in a competent and professional manner; and

WHEREAS, the Commissioners desire to help ensure the opportunity for workers in ______ County to obtain health insurance and pension benefits so desperately needed in today's society as well as the proper training to maintain a quality workforce

WHEREAS, the "Qualitative and Responsible" criteria enumerated in the attached document will be appropriately included in the _____ County Invitation to Bid for construction projects.

BE IT RESOLVED BY THE _____ COUNTY COMMISSIONERS

That the "Qualitative and Responsible" criteria enumerated are hereby approved and will be added to the ______ County Invitation to Bid for construction projects managed by the ______ County Commissioners

- 1. Before any contracts are awarded for any construction work within the jurisdiction of the ______ County Commissioners they shall, or their agent shall, hold with the apparent "Low" bidder a "Compliance of Scope" Review. This to verify that bidder is in compliance with this resolution and that all required work under contract is included in bid.
- 2. The "Low" Bidder whose bid is more than twenty percent (20%) below the next lowest bidder shall list three (3) projects that are each within seventy-five percent (75%) of the bid project estimate for similar projects and that were successfully completed by the bidder not more than five (5) years ago. This information shall be provided, if necessary, at the post-bid "Compliance of Scope Review"
- 3. Any low bidder shall also be prepared to substantiate their cost over-run and job completion timeliness record. This information shall be provided, at the post-bid "Compliance of Scope" Review
- 4. The successful bidder shall certify that they will employ "qualified craft workers" with the experience and continuity befitting the wages they will be paid and hired from the labor pool. They possess and maintain any appropriate state licenses.
- The successful bidder must certify that they have not been penalized or debarred from any public contract for falsified certified payroll records or any other violation of the Fair Labor Standards Act in the last five (5) years.
- 6. The successful bidder must not be debarred from any public contracts or found by the state (after all appeals) to have violated prevailing wage laws in the last 5 years.
- 7. The successful bidder must certify that they have implemented a drug free workplace policy.
- 8. The successful bidder must certify they will secure any required bonds from a surety, licensed to do business in the State of Ohio with an A.M. Best Company rating of at least "A".
- 9. The successful bidder must certify that they have complied with unemployment and worker's compensation laws for at least the nine months preceding the date of bid submittal
- 10. The successful bidder must certify that they provide a minimum health care plan for those employees that will be working on the proposed project.
- 11. The successful bidder must certify that they provide a pension or retirement program for those employees that will be working on the proposed project.
- 12. The successful bidder must submit a list of sub-contractors to be used on the project or before notice to proceed is issued.
- 13. The successful bidder must certify that their construction license has not been revoked in any state or municipality.

GENERAL CONTRACT CONDITIONS SECTION C

ARTICLE 1 - CONTRACT AND CONTRACT DOCUMENTS

- A. The project to be constructed pursuant to this contract will be financed with assistance from the Department of Housing and Urban Development and is subject to all applicable Federal laws and regulations.
- B. All applicable State laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout, and they will be deemed to be included in the contract the same as though herein written out in full.
- C. The Plans, Specifications and Addenda, hereinafter enumerated in Paragraph 1 of the Supplemental General Conditions shall form part of this Contract and provisions thereof shall be as binding upon the parties hereto as if they were herein fully set forth. The table of contents, titles, headings, running headlines and marginal notes contained herein and in said documents are solely to facilitate reference to various provisions of the Contract Documents and in no way affect, limit or cast light on the interpretation of the provisions to which they refer.

ARTICLE 2 - PERFORMANCE AND PAYMENT BONDS

Simultaneously with his/her delivery of the executed contract, the Contractor shall furnish a surety bond or bonds as security for faithful performance of this contract and for the payment of all persons performing labor on the project under this Contract and furnishing materials in connection with this contract, as specified in the General Conditions included herein. The surety on such bond or bonds shall be a duly authorized surety company satisfactory to the Owner. The bond shall be for 100 percent of the contract price. A Payment Bond and Performance Bond are required per regulations below:

A state or local unit of government receiving a grant from the Federal government which requires contracting for construction of facility improvement shall follow its own requirement relating to bid guarantees, performance bonds, and payment bonds, except for contracts or subcontracts exceeding \$100,000.00. For contracts or subcontracts exceeding \$100,000.00, the Federal agency may accept the bonding policy requirement of the grantee provided the Federal agency has made a determination that the Government's interest in adequately protected. If such a determination has not been made, the minimum requirements shall be as follows:

- A. <u>A bid guaranty from each bidder equivalent to ten percent of the proposal price</u>. The "bid guarantee" shall consist of a firm commitment such as a bid bond, certified check, or other negotiable instrument accompanying a proposal as assurance that the bidder will, upon acceptance of his/her proposal, execute such contractual documents as may be required within the time specified.
- B. <u>A performance bond on the part of the contractor for 100 percent of the contract price</u>. A "performance bond" is one executed in connection with a contract to secure fulfillment of all the contractor's obligations under such contract.
- C. <u>A payment bond on the part of the contractor for 100 percent of the contract price</u>. A "payment bond" is one executed in connection with a contract to assure payment as required by law of all persons supplying labor and material in the execution of the work provided for in the contract.

Attorneys-in-fact who sign bid bonds or contract bonds must file with each bond a certified and effectively dated copy of their power of attorney. Under certain conditions, and within the limits of State and local laws and regulations, the Owner may waive the requirement that the Payment and Performance Bond be underwritten by a surety company and may authorize in lieu thereof, a personal bond backed by a letter of credit from a local lending institution for the full value of the Contract.

ARTICLE 3 - WAGE RATES

In the event that the rate of wages paid for any trade or occupant in the locality where such work is being performed are under current collective agreements or understandings between bona fide organizations of labor and employer, then the wages to be paid shall be not less than such agreed wage rates, nor less than the minimum rates compiled by the Federal Labor Standard Provision. A copy of these prevailing rates of wages has been included in these specifications.

Every Contractor and Subcontractor who is subject to this contract shall, as soon as he/she begins performance under his/her contract with the Owner, supply the Owner a schedule of dates on which he/she is required to pay wages to employees. He/She shall also deliver to the prevailing wage coordinator within three weeks after each pay date, a certified copy of his/her payroll which shall exhibit for each employee paid any wages, name, current address, social security number, number of hours worked each day of the pay period and total for each week, hourly rate of pay, job classification, fringe payments, and deductions from wages. The certification of each payroll shall be executed by the Contractor, Subcontractor, or duly executed by the Contractor, Subcontractor, or duly appointed agent thereof and shall recite that the payroll is correct and complete and that the wage rate shown is not less than those required by the contract. **Insofar as possible, local labor shall be employed on this work.**

ARTICLE 4 - AFFIRMATIVE ACTION

Each bidder, Contractor, and/or Subcontractor, must fully comply with either Part 1 or Part 11, as applicable, of Executive Order 1246 as stated during the performance of this contract or subcontract. The Contractor commits itself to the goals for minority manpower utilization in either Part 1 or Part 11, as applicable, and all other requirements, terms and conditions of those proposal conditions by submitting a properly signed bid.

The Contractor shall appoint a company executive to assume the responsibility for the implementation of the requirements, terms and conditions of these bid conditions.

ARTICLE 5 - INSURANCE

- A. The Contractor shall not commence work under this Contract until he has obtained all the insurance required hereunder and such insurance has been approved by the Owner, nor shall the Contractor allow any Subcontractor to commence work on his subcontract until all similar insurance required of the Subcontractor has been so obtained and approved. Approval of the insurance by the Owner shall not relieve or decrease the liability of the Contractor hereunder.
- B. The Contractor shall file with the Owner all Certificate(s) of Insurance as are necessary to document the insurance coverage required hereunder, subject to the approval of the Owner and receipt of any additional forms/documentation requested, prior to final execution of the Agreement Contract and issuance of the Notice to Proceed.
- C. Worker's Compensation
 - a) All contractors and subcontractors shall acquire and maintain, during the term of the Contract, Worker's Compensation insurance in full compliance with the laws of the State of Ohio.
- D. Contractor's Liability Insurance

- a) The Contractor shall acquire and maintain during the term of the Contract Bodily Injury and Property Damage Liability Insurance under a standard Comprehensive General/Automobile Liability Policy which shall provide and include coverage on all Contractor's Operations, Contractor's Protective (Sublet) Liability, Contractual Liability, Completed Operations Liability, Owned Automobiles and Non-owned and Hired Automobiles.
- b) Property Damage Liability Insurance shall be provided on any demolition, blasting, excavating, shoring or similar operation on an "if any" basis.
- c) Bodily Injury Liability limits shall be for an amount of no less than Two Hundred Fifty Thousand (\$250,000) Dollars for injuries, including wrongful death to any one person and subject to the same limit for each person, in an amount of not less than Five Hundred Thousand (\$500,000) Dollars on the account of any one occurrence.
- d) Property Damage Liability insurance shall be in an amount of not less than One Hundred Thousand (\$100,000) per occurrence. General Liability shall be extended to provide "Broad Form Property Damage Liability," and in an amount of not less than One Million (\$1,000,000) Dollars aggregate for damage on account of all occurrences.
- e) Any combination of underlying Comprehensive General/Automobile Liability coverage with Umbrella/Excess Liability coverage which provides no less than One Million (\$1,000,000) Dollars Single Limit Bodily Injury and Property Damage Liability Insurance for the Contractor will also be acceptable.
- f) The Owner may adjust the liability limits to coincide with local government procurement policies and practice within the limits of state and local law.
- E. Builder's Risk Insurance
 - a) Each Contractor shall maintain insurance from loss incurred by fire, lightning, extended coverage hazards, vandalism, theft, explosion and malicious mischief in the full amount of the Contract and such insurance shall cover all labor and material connected with the work, including materials delivered to the site, but not yet installed. This insurance shall be project specific and valued in the full amount of the contract.
- F. Installation Floater Insurance
 - a) When a contractor is involved solely in the installation of materials and not in the construction of a building (i.e. plumbing), an Installation Floater is required in lieu of a Builder's Risk Policy with the same general conditions applying as set forth in Paragraph E.
- G. The Policies as listed above shall all contain all the following special provisions:
 - a) The Company agrees that thirty (30) days prior to cancellation or reduction of the insurance afforded by this policy with respect to the Contract involved, written notice will be mailed to HOCKING ATHENS PERRY COMMUNITY ACTION AGENCY.
 - b) The maintaining of such insurance as outlined herein shall in no way constitute a waiver of legal liability for damage to any adjoining buildings or their contents or the work and property of others on the site beyond the limits of insurance thus maintained. The Contractor shall hold the Owner free and harmless from any injury and damage resulting from the negligent or faulty performance of the Contract by the Contractor or by his/her Subcontractors.

- c) Each Contractor shall hold the Owner harmless from all payments for patents, either as royalty or otherwise, in the use of materials, methods, appliances, etc., that he may be any way involved in or connected with any part of his work or the work of his Subcontractors.
- d) Prior to commencement of any work under the Contract, the Contractor shall furnish one (1) copy of Declaration of Insurance as evidence of coverage.

ARTICLE 6 - SAFETY

- A. The Contractor will be responsible for initiating, maintaining and supervising all safety precautions and program in connection with the Work. He/She will take all necessary precautions for the safety of, and will provide the necessary protection to prevent damage, injury, or loss to all employees on the work and other persons who may be affected thereby, and all the work and all materials or equipment to be incorporated therein, whether in storage on or off the site, and other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated form removal, relocation, or replacement in the course of construction.
- B. The Contractor will erect and maintain, as required by the conditions and progress of the Work, all necessary safeguards for safety protection. He/She will notify owners of adjacent utilities when prosecution of the work may affect them.
- C. The Contractor shall comply with the safety standards guidelines provisions of applicable laws, building and construction codes as well as the requirements of the Occupational Safety and Health Act of 1970, as amended through January 1, 2004, and the requirements of Title 29 of the Code of Federal Regulations. The Chapter shall also comply with Chapter 4104.9-2 of the Ohio Revised Code prohibiting the Employment of Minors in Occupations Hazardous or Detrimental to their health and OSHA Part 1926, Safety and Health Regulations for Construction.
- D. The Contractor shall maintain at his/her office or other well-known place at the job site, all articles necessary for giving first aid to the injured, and shall make standing arrangements for the immediate removal to a hospital or a doctor's car of persons (including employees) who may be injured at the job site. In no case shall employees be permitted to work at a job site before the employer has made a standing arrangement for removal of injured persons to a hospital or a doctor's care.
- E. Lights, signs and barricades shall be used to maintain traffic and safety for vehicular and pedestrian traffic during the course of this contract in accordance with the specifications.

ARTICLE 7 - PERMITS

The Owner is responsible for obtaining and paying for the following permits:

___. (If blank, contractor

is responsible for all permitting necessary.)

The Contractor is responsible for obtaining and paying for all other necessary permits and licenses from the proper authorities. The Contractor shall give all notices and comply with all laws, ordinances, rules, and regulations bearing on the conduct of the work as drawn and specified. If the Contractor observes that the Contract Documents are at variance therewith, he/she shall promptly notify the Owner in writing.

ARTICLE 8 - SUPERVISION

- A. The Contractor will supervise and direct the work. He/She will be solely responsible for the means, methods, techniques, sequences, and procedures of construction. The Contractor will employ and maintain on the work site a qualified supervisor or superintendent who shall have been designated in writing by the Contractor at the pre-construction meeting as the Contractor's representative at the site. The Supervisor shall have full authority to act on behalf of the Contractor and communications given to the supervisor shall be as binding as if given to the Contractor. The supervisor shall be present and on the site at all times as required to perform adequate supervision and coordination of the work.
- B. The Owner and its representative will, at all times, have access to the work. In addition, authorized representatives and agents of any participating federal or state agency shall be permitted to inspect all work, materials, and payrolls, records of personnel, invoices of materials, and other relevant data and records. The Contractor will provide proper facilities for such access and observation of the work and also for any inspection or testing thereof.
- C. The Contractor shall submit a proposed program of operation, showing clearly how he/she proposed to conduct the work as to bring about the completion of his/her work within the time limit specified. This program shall outline the proposed sequence of operations, the rates of progress and the dates when his/her work will be sufficiently advances to permit the installation of the work under other contract, and the estimated progress payments due under the Contract. The work under this contract shall be so scheduled that as structures are completed, they can be placed into useful operation with a minimum of delay. The program shall be subject to the approval of the Owner.
- D. All construction as proposed along all City, Township, County, State and Federal roads including storage and stockpiling of materials, is to be conducted within the limits of the public right-of-way. Bracing, sheeting and shoring shall be used to keep all construction work within the construction limits unless work agreements are secured from the adjacent property owners. It is the Contractor's responsibility to secure these work agreements, if deemed necessary. Copies of the work agreements shall be delivered to the Engineer and the Owner prior to any work beginning on the affected property.

ARTICLE 9 - CLAIMS AGAINST CONTRACTOR

The Contractor shall indemnify and save the Owner or the Owner's agents harmless from all claims growing out of the lawful demands of Subcontractor's laborers, workmen, mechanics, materialmen, and furnishers of machinery and parts thereof, equipment, tools, and all supplies, incurred in the furtherance of the performance of the work. The Contractor shall, at the Owner's request, furnish satisfactory evidence that all obligations of the nature designated above have been paid, discharged, or waived. If the Contractor fails to do so, the Owner, may, after having notified the Contractor, wither pay unpaid bills or withhold from the Contractor's unpaid compensation a sum of money deemed reasonably sufficient to pay any all such lawful claims until satisfactory evidence is furnished that all liabilities have been fully discharged whereupon payment to the Contractor shall be resumed, in accordance with the terms of the Contract Documents, but in no event shall the provisions of this sentence be construed to impose any obligations upon the Owner to either the Contractor, his Surety, or any third party. In paying any unpaid bills of the Contractor, any payment so made by the Owner shall be considered as a payment made under the Contract Documents by the Owner to the Contractor and the Owner shall not be liable to the contractor for any such payments in good faith.

ARTICLE 10 - SUBCONTRACTING

- A. Neither the Contractor nor the Owner shall sell, transfer, assign, or otherwise dispose of his right, title, or interest therein, or his obligations thereunder.
- B. The Contractor shall not sublet, sell, transfer or assign any portion of the contract without written consent

of the Owner of his/her designated agent. When such consent is given, the Contractor will be permitted to sublet a portion thereof, but shall perform with his/her own organization, work amounting to no less than fifty percent of the total contract cost, except that any item designated in the contract before computing the amount of work required to be performed by the Contractor with his/her own organization. No subcontract, or transfer of contract, shall in any way release the Contractor of his/her liability under the contract and bonds.

C. The Contractor shall not award work to Subcontractor(s) without prior written approval of the Owner, after verification by the Ohio Department of Development of the subcontractor's current eligibility status, and after submission of all certifications as required in

INSTRUCTIONS TO BIDDERS. The Contractor shall be fully responsible to the Owner for the acts and omissions of the subcontractor(s), and of the persons either directly or indirectly employed by them, as he is for the acts and omissions of persons directly employed by him/her.

ARTICLE 11 - CHANGE OF WORK

- A. The Owner reserves the right to make, at any time during the progress of the work, such increases or decreases in quantities and such alterations in details of work as may be deemed necessary or desirable. Such increases or decreases and alterations shall not invalidate the contractor nor release the surety, the Contractor agrees to perform the work as altered, the same as if it had been a part of the original contract.
- B. Authorized alterations in plans or quantities of work involving work not covered by unit prices in the proposal are paid for as stipulated in the change order authorizing such work.
- C. No changes in work covered by the approved Contract shall be made without having prior written approval of the Owner.

ARTICLE 12 - TIME

- A. The Date of beginning and time for completion of the work are essential conditions of the Contract Documents and work embraced shall be commenced on a date specified in the Notice to Proceed.
- B. The Contractor will proceed with the work at such rate of progress to ensure full completion with in the Contract Time. It is expressly understood and agreed, by and between the Contractor and the Owner, that the Contract Time for the completion of the work described herein is a reasonable time, taking into consideration the average climatic and economic conditions and other factors prevailing in the locality of the work.
- C. The Contract Time to fully complete the project shall be <u>consecutive calendar days following the date</u> of commencement of work to be specified in a written "Notice to Proceed".
- D. If the Contractor shall fail to complete the work within the Contract Time, and an extension of time is not granted by the Owner, the Contractor will pay the Owner for liquidated damages \$100.00 for each calendar day that the Contractor shall be in default after the time stipulated in the Contract Documents.

ARTICLE 13 - COMPLETION OF WORK

A. The Contractor shall guarantee all materials and equipment furnished and work performed for a period of one year from the date of Substantial Completion. The Contractor warrants and guarantees for a period of one year from the date of Substantial Completion of the improvement that it is free from all defects due to faulty materials or workmanship, and the Contractor shall promptly make corrections as may be necessary by reason of such defects. The Owner will give notice of observed defects with reasonable

promptness. In the event that the Contractor should fail to make repairs, adjustments, or other work which may be made necessary by such defects, the Owner may do so and charge the Contractor the cost thereby incurred. The Contract Bond shall remain in full force and effect through the guarantee period.

B. When the work, including that performed by Subcontractors, is completed, the site shall be cleaned of all rubbish and debris caused by the construction. All sheds or other temporary structures, surplus materials, and equipment shall be removed and the project left in a neat and presentable condition.

ARTICLE 14 - TERMINATION

After ten (10) days from delivery of a Written Notice to the Contractor, the Owner may, without cause and without prejudice to any other right or remedy, elect to terminate the Contract. In such case, the Contractor shall be paid for all work executed and any expense sustained plus reasonable profit, unless such termination was due to the act or conduct of the Contractor.

ARTICLE 15 - PAYMENT

Payment to the Contractor shall be made by the Owner as follows: <u>100% upon completion or in draws of</u> <u>approximately 50%</u>. Payment will be made only on work that is complete. The Owner's Representative shall certify on the pay request that he approved the completed work prior to the Owner making payment. Upon receipt of an approved invoice from the Contractor, the Owner shall submit a drawdown request to the Ohio Department of Development for CDBG funds to pay the Contractor. A turnaround time of 30 - 45 days is expected before said funds are forwarded to the Owner.

SUPPLEMENTAL GENERAL CONDITIONS

1. ENUMERATION OF PLANS, SPECIFICATIONS AND ADDENDA

Following are the Plans, Specifications and an Addenda which form a part of this contract, as set forth in Article I of the General Contract Conditions, "Contract and Contract Document".

Drawings	Number	Date	
Specifications			
Addenda	Number	Date	

2. STATED ALLOWANCES

The Contractor shall include the following cash allowances in his proposal:

3. SPECIAL HAZARDS: _____

4. CONTRACTOR'S AND SUBCONTRACTOR'S PUBLIC LIABILITY, VEHICLE LIABILITY, AND PROPERTY DAMAGE INSURANCE

- a. As required under Article 5 of the General Contract Conditions, the Contractor's Public Liability Insurance and Vehicle Liability Insurance shall be in an amount not less than \$1,000,000 for injuries, including accidental death, to any one person, and subject to the same limit for each person in an amount not less than \$500,000 on account of one accident, and Contractor's Property Damage Insurance in an amount not less than \$1,000,000.
- b. The Contractor shall either (1) require each of his subcontractors to procure and to maintain during the life of his subcontract, Subcontractor's Public Liability and Property Damage of the type and in the same amount as specified in the preceding paragraph, or (2) insure the activities of his subcontractors in his own policy.

5. PHOTOGRAPHS OF THE PROJECT

The Contractor will furnish photographs in the number, type and state as enumerated: _____

6. SCHEDULE OF FEDERAL OCCUPATIONAL CLASSIFICATIONS AND DAVIS-BACON MINIMUM HOURLY WAGE RATES

Refer to Section E

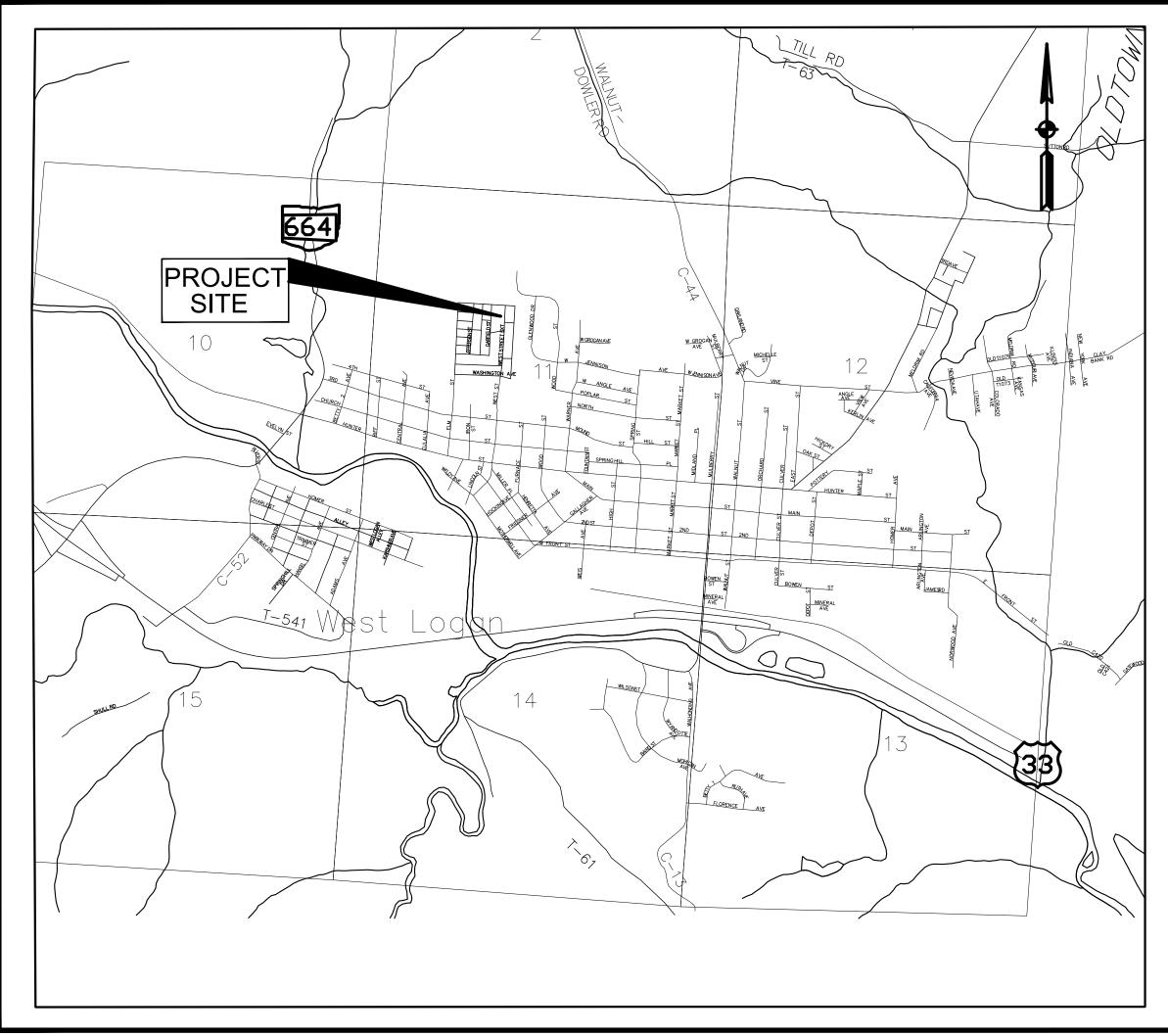
WORK SPECIFICATIONS

SECTION D

FALLS TOWNSHIP, HOCKING COUNTY, OHIO HOCKING COUNTY COMMISSIONERS WEST STREET SANITARY SEWER IMPROVEMENTS 2022

INDEX OF SHEETS

TITLE SHEET	1
GENERAL NOTES	2
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PLAN & PROFILES	1
STANDARD DETAILS	5



HOCKING COUNTY COMMISSIONERS

JESSICA DICKEN, VICE PRESIDENT

LOCATION MAP

BENCH MARKS

BM 505, EL=739.41

X ON EAST BOLT OF FIRE HYDRANT AT SW CORNER OF CHURCH ST & WOOD ST

BM 530, EL=862.075 MSPK IN POWER POLE #1083B1-57, LAST POLE ON N MARKET ST

BM 541, EL=741.66

X ON WEST BOLT OF FIRE HYDRANT @ NE CORNER OF ORCHARD ST & HUNTER ST

BM 554, EL=729.10 X ON BOLT OF FIRE HYDRANT ACROSS FROM RESIDENCE 185 N HOMER ST

SANDRA OGLE, PRESIDENT

JASON D'ONOFRIO, COMMISSIONER

UNDERGROUND UTILITIES				
Two Working Days				
BEFORE YOU DIG				
Call 811 OHIO UTILITIES PROTECTION SERV				
N0N-MEMBERS MUST BE CALLED DIRECTLY				

PROJECT	NO. <u>2</u>	228453500
1	OF	= 5
FALLS TOWNSHIP, HOCKING COUNTY, OHIO HOCKING COUNTY COMMISSIONERS	WEST STREET SANITARY SEWER IMPROVEMENTS	TITLE SHEET
		30661 RED ROCK COURT LOGAN, OHIO 43138 (740) 380-2828 FAX (740) 380-3535 DLZ OHIO, INC
DESIGN DRAWN SCALE		GDS JLC NTS
Contractor shall dimensions. DO	NOT scale	served be responsible for all drawing - any errors or to DLZ without delay.

SAFETY REQUIREMENTS

THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE AND LOCAL SAFETY WORK REQUIREMENTS.

COMMENCEMENT OF WORK

THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO COMMENCING WORK ON THIS PROJECT, HOLIDAYS AND WEEKENDS EXCLUDED.

EXTRA COMPENSATION

NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR BY REASON OF COMPLIANCE WITH ANY OF THE REQUIREMENTS INDICATED IN THE CONTRACT DRAWINGS.

EXISTING UTILITIES

EXISTING UTILITIES: THE INFORMATION SHOWN CONCERNING EXISTING UTILITIES IS APPROXIMATE ONLY AND IS ONLY AS ACCURATE AS THE INFORMATION PROVIDED BY THE OWNERS OF THE UTILITY COMPANY. IT IS NOT REPRESENTED, WARRANTED, OR GUARANTEED TO BE COMPLETE OR ACCURATE. THE ENGINEER DOES NOT INDEPENDENTLY VERIFY NOR FIELD LOCATE UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PHYSICALLY LOCATE AND VERIFY, IN THE FIELD, THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO THE BEGINNING OF HIS CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL SUPPORT. PROTECT, AND RESTORE ALL EXISTING UTILITIES AND THEIR ASSOCIATED ITEMS.

THE CONTRACTOR SHALL NOTIFY THE UNDERGROUND UTILITY PROTECTION SERVICE AND ALL OWNERS OF UNDERGROUND UTILITY FACILITIES WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE, IN WRITING, BY TELEPHONE OR IN PERSON, IN ACCORDANCE WITH SECTION 153.64, OHIO REVISED CODE, AT LEAST TWO WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THEM, AND SHALL KEEP THE UTILITY OWNERS APPRAISED OF HIS SCHEDULE AND REQUIREMENTS UNTIL ALL WORK IS COMPLETED. THE CONTRACTOR SHALL PROVIDE THE OWNER OR HIS REPRESENTATIVE WITH EVIDENCE OF HAVING NOTIFIED THE UTILITIES AND PROVIDING THEM WITH HIS WORK SCHEDULE PRIOR TO BEGINNING ANY WORK.

THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL STATE, AND LOCAL SAFETY REQUIREMENTS TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS INCLUDING EMPLOYEES AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

THE FOLLOWING UTILITY COMPANIES PROVIDED INFORMATION WHICH IS SHOWN ON THE PLANS TO THE SAME DEGREE OF ACCURACY AS THE INFORMATION PROVIDED BY THE UTILITY COMPANY:

CITY OF LOGAN
10 S MULBERRY ST
LOGAN, OH 43138
WATER & SEWER (740) 380-16
STREETS (740) 385-5084

AMERICAN ELECTRIC POWER 700 Morrison Rd. Gahanna, OH 43230 (614) 883-7832 Brent Gates bmgates@aep.com

COLUMBIA GAS OF OHIO 843 PIATT AVE MPaulus@NISOURCE.COM

CHILLICOTHE, OH 45601 Michael Paulus (740) 774-8229

SERVICE LINE

CONTRACTOR SHALL COORDINATE WITH UTILITY PROVIDERS FOR SERVICE LINE LOCATIONS.

PROJECT CONTROL/BASIS OF BEARING

ALL HORIZONTAL COORDINATES AND BEARINGS AS SHOWN ARE PROJECT GRID BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, AND REFERENCE THE NORTH AMERICAN DATUM OF 1983 AND THE 2011 ADJUSTMENT(NAD83(2011)). ALL ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

BENCHMARKS AND ELEVATIONS

IF BENCHMARKS HAVE BEEN SET AND REFERENCED ON THE DRAWINGS, CONTRACTOR SHALL VERIFY ELEVATION OF EACH WITH PERMANENT BENCHMARKS PRIOR TO COMMENCING THE WORK. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND RESOLVED BEFORE PROCEEDING WITH THE WORK. BENCHMARKS SHALL BE MAINTAINED AS REQUIRED TO COMPLETE THE WORK AT THE CONTRACTOR'S COST.

IRON PINS AND MONUMENTS

THE CONTRACTOR SHALL REFERENCE ALL IRON PINS, AND MONUMENTS FOUND BEFORE EXCAVATING AT OR NEAR THEM. COPIES OF REFERENCE DOCUMENTATIONS SHALL BE SUBMITTED TO OWNER'S REPRESENTATIVE. IF ANY PINS OR MONUMENTS ARE DESTROYED OR DAMAGED, THEY SHALL BE ACCURATELY REPLACED BY A REGISTERED SURVEYOR AT THE COMPLETION OF THE PROJECT AT CONTRACTOR'S COST.

WORK LIMITS

WORK LIMITS ARE DEFINED AS THE LIMITS OF EASEMENTS, OR ROAD RIGHT OF WAY. THE CONTRACTOR SHALL LIMIT OPERATIONS TO THOSE AREAS. AGREEMENTS FOR USE OF PRIVATE LANDS SHALL BE FORMALIZED IN WRITING.

DITCHES, STRUCTURES

ALL DRAINAGE DITCHES AND STRUCTURES SHALL BE RESTORED TO EXISTING CONDITION AND GRADE UNLESS SHOWN OTHERWISE. THE CONTRACTOR SHALL REPLACE, AT ITS COST, TO THE SATISFACTION OF THE ENGINEER, ALL EXISTING MANHOLES, CATCH BASINS, DRAINS, SEWERS AND APPURTENANCES REMOVED OR DAMAGED DURING CONSTRUCTION & SHALL BE INSTALLED PER ODOT 611. THIS INCLUDES ANY RESIDENTIAL DRAIN TILE DAMAGED, DISTURBED, OR REMOVED, WHICH SHALL BE REPAIRED OR REPLACED TO AN EQUAL OR BETTER CONDITION. THE ABOVE IS NOT APPLICABLE TO STRUCTURES TO BE ABANDONED.

EXCAVATION AND FILL

ALL EXCAVATION IS UNCLASSIFIED. THE CONTRACTOR SHALL MAKE ALL EXCAVATION OF WHATEVER NATURE ENCOUNTERED, INCLUDING ROCK IN PLACE, NECESSARY FOR CONSTRUCTION OF THE WORK INCLUDED IN THIS CONTRACT

BACKFILL

ALL TRENCHES SHALL BE BACKFILLED OR SECURED FROM PUBLIC ACCESS IN ACCORDANCE WITH THE PLANS DURING NON-WORKING HOURS. DRIVEWAY APPROACHES AND PEDESTRIAN WALKWAYS SHALL BE MADE ACCESSIBLE DURING NON-WORKING HOURS.

DUST CONTROL

DUST CONTROL SHALL BE PROVIDED BY THE CONTRACTOR AT THE TIME, LOCATION, AND IN THE AMOUNT ORDERED BY THE OWNER. FUGITIVE DUST GENERATED BY THIS SEWER CONSTRUCTION PROJECT SHALL BE CONTROLLED AS SPECIFIED IN OAC 3745-17-08 (B).

USE OF FIRE HYDRANTS

THE CONTRACTOR SHALL MAKE THE PROPER ARRANGEMENTS WITH **THE OWNER** FOR THE USE OF FIRE HYDRANTS WHEN USED FOR WORK PERFORMED UNDER THIS CONTRACT. CONTRACTOR IS RESPONSIBLE FOR COST

USE OF PUBLIC AND PRIVATE UTILITIES

THE CONTRACTOR SHALL MAKE THE PROPER ARRANGEMENTS WITH THE RESPECTIVE UTILITIES FOR THE USE OF THEIR FACILITIES WHEN USED FOR WORK PERFORMED UNDER THIS CONTRACT.

NON-RUBBERED TIRED VEHICLES

THE USE OF NON-RUBBER TIRED VEHICLES SHALL BE LIMITED TO ROADS OF CONSTRUCTION ONLY. EXCEPTIONS MAY BE GRANTED BY THE AUTHORIZED JURISDICTION WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE JURISDICTIONAL AUTHORITY, AT THE CONTRACTOR'S EXPENSE.

DAILY CLEANUP

AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL REMOVE ALL DEBRIS AND CONSTRUCTION MATERIALS FROM THE ADJACENT ROADS OR ALLEYS. AFFECTED STREETS SHALL BE CLEARED WITH A SELF CONTAINED STREET CLEANER.

REPLACEMENT OF DRAIN TILE

ALL DRAIN TILE, STORM SEWERS, AND PROCESS PIPES DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY OF PIPE OR BETTER, MAINTAINING THE SAME GRADIENT AS EXISTING. REPLACED DRAIN TILE SHALL BE LAID ON COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING STRATUM.

FINAL CLEANUP

THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM THE WORK AND RESTORE ALL SURFACES, STRUCTURES, DITCHES AND PROPERTY NOT INTENDED FOR WORK IN THIS CONTRACT TO ITS ORIGINAL CONDITION, AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AND/OR THE OWNER. THE COST OF THIS WORK SHALL BE AT THE CONTRACTORS EXPENSE.

CLEARING AND GRUBBING TREES AND SHRUBS WITHIN CONSTRUCTION EASEMENTS NOT DESIGNATED TO BE SAVED ON THE DRAWINGS MAY BE REMOVED AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH SPECIFICATION AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER AT LEAST ONE WEEK IN ADVANCE.

SIGNS, MAILBOXES, FENCES, GUARDRAILS, ETC ALL FENCES, GUARDRAILS, ROADSIDE DITCHES OR OTHER PHYSICAL FEATURES DISTURBED OR DAMAGED DURING WORK UNDER THIS CONTRACT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR, UNLESS OTHERWISE PROVIDED IN THE CONTRACT. ANY GUARDRAIL REPAIR OR CONSTRUCTION SHALL BE BY AN ODOT PREQUALIFIED CONTRACTOR.

LAYDOWN. STAGING AND STOCKPILE THE OWNER IS NOT PROVIDING ADDITIONAL ACCESS, STAGING, LAYDOWN OR STOCKPILE AREAS OUTSIDE OF EASEMENTS OR ROAD RIGHT OF WAY. THE CONTRACTOR MAY OBTAIN ADDITIONAL AREAS, IF AVAILABLE, AND AS SPECIFIED IN PROJECT MANUAL.

CONSTRUCTION EQUIPMENT SHALL BE PROVIDED WITH INTAKE SILENCERS AND MUFFLERS, AS REQUIRED BY SAFETY STANDARDS AND PROJECT MANUALS. ALL CONSTRUCTION VEHICLES SHOULD BE EQUIPPED WITH PROPER EMISSION CONTROL EQUIPMENT. PERIODICALLY CHECK EQUIPMENT AND MACHINERY FOR PROPER TUNING TO MINIMIZE EXHAUST EMISSIONS AND NOISE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL PERMITS.

SLOPES WITH A GRADE STEEPER THAN 2 TO 1 (TWO FEET OF HORIZONTAL FOR EACH FOOT OF VERTICAL RISE) REQUIRE SPECIAL TREATMENT SUCH AS WATER DIVERSION BERMS, SODDING, OR THE USE OF JUTE OR EXCELSIOR BLANKETS.

PROPERLY INSTALLED SILT BARRIERS (i.e., SILT FENCE OR STRAW BALES) SHALL BE USED FOR EROSION/SEDIMENT CONTROL AS REQUIRED TO PREVENT SILT FROM LEAVING THE CONSTRUCTION SITE, AND BE PROPERLY MAINTAINED UNTIL PERMANENT VEGETATIVE COVER HAS BEEN SUCCESSFULLY ESTABLISHED.

STREAM CROSSINGS: DISTURBED STREAM BANKS WILL BE STABILIZED AND THE ENTIRE CONSTRUCTION SITE AT THE STREAM CROSSING WILL BE IMMEDIATELY RESTORED UPON COMPLETION OF THE WORK THERE. NATURAL STREAM COURSES WILL NOT BE ALTERED.

ROAD CLOSINGS ALL ROADS MAY BE CLOSED ONLY DURING ACTUAL WORK HOURS AND ONLY IF LOCAL ACCESS IS PROVIDED AT ALL TIMES, CLOSURES ARE APPROVED BY THE OWNER OR HIS REPRESENTATIVE AND LOCAL OFFICIALS PRIOR TO WORK, AND ADEQUATE $\overline{1}$ SIGNAGE IS PROVIDED. ALL LOCAL SCHOOLS. FIRE, AND EMERGENCY SERVICES SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE ROAD CLOSINGS.

ITEM 614 - MAINTAINING TRAFFIC ACCESS TO LOCAL PROPERTY OWNERS SHALL BE MAINTAINED AT ALL TIMES. ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS. AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN. mmm

WHEN THE CONTRACTOR'S EXCAVATING OPERATIONS ENCOUNTER REMAINS OR PREHISTORIC PEOPLE'S DWELLING SITES OR ARTIFACTS OF HISTORICAL OR ARCHAEOLOGICAL SIGNIFICANCE, THE OPERATIONS SHALL BE TEMPORARILY DISCONTINUED IN THIS AREA AND THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE. THE OWNER'S REPRESENTATIVE WILL CONTACT THE OHIO HISTORIC PRESERVATION OFFICE TO DETERMINE THE DISPOSITION OF THE FIND. AFTER CONSULTATION WITH THE OHIO HISTORIC PRESERVATION OFFICE, THE OWNER'S REPRESENTATIVE MAY ELECT TO DISCONTINUE THE WORK IN THE AREA INDEFINITELY, RESUME NORMAL EXCAVATION, OR EXCAVATE FOR ARTIFACTS, WHEN DIRECTED BY THE OWNER'S REPRESENTATIVE TO EXCAVATE FOR ARTIFACTS, THE CONTRACTOR SHALL EXCAVATE THE SITE IN SUCH A MANNER AS TO PRESERVE THE ARTIFACTS ENCOUNTERED AND SHALL REMOVE THEM FOR DELIVERY TO THE CUSTODY OF THE PROPER AUTHORITIES.

THE CONTRACTOR SHALL NOT DISTURB ANY HISTORICAL OR CULTURAL BUILDING, FOUNDATION, STRUCTURE, OR MATERIALS EXISTING ABOVE OR BELOW GROUND SURFACE.

POLE TIE-BACKS THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST AND COORDINATION ASSOCIATED WITH ALL UTILITY COMPANIES REQUIRING UTILITY POLE TIE-BACKS.

TESTING

SURPLUS EXCAVATION

ALL EXCESS EXCAVATED MATERIAL AND DEBRIS TO BE DISPOSED OF OFF-SITE MUST BE DISPOSED OF IN AN ENVIRONMENTALLY SOUND FASHION AND IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

CURBS AND SIDEWALKS

ALL CURBS OR SIDEWALKS DAMAGED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED USING THE SAME TYPE OF MATERIAL AND OF THE SAME DIMENSIONS AS THAT REMOVED.

AIR/NOISE CONTROL

SEDIMENTATION AND SOIL EROSION CONTROL

THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE OF THE FLOWS UPSTREAM OF THE CONSTRUCTION SITE. ALL TRENCHES ARE TO BE BACKFILLED IMMEDIATELY AFTER SEWER INSTALLATION. FOLLOWING THE BACKFILLING OF THE TRENCH, THE GROUND SURFACE WILL BE ROUGH GRADED TO THE EXISTING CONTOURS TO ALLOW FOR PROPER DRAINAGE.

SILT FROM CONSTRUCTION OPERATIONS SHALL NOT BE PERMITTED TO ENTER STORM SEWER SYSTEMS. WHEN CONSTRUCTION OCCURS NEAR OR AFFECTS STORM SEWERS INLETS. EROSION CONTROL MEASURES SUCH AS INLET FILTERS AND STRAW BALES WILL BE USED AND MAINTAINED TO PREVENT SILT FROM ENTERING THE STORM SEWERS. SUCH EROSION CONTROL MEASURES SHALL NOT IMPEDE THE NORMAL FLOW OF TRAFFIC.

REMOVE ONLY THOSE TREES, SHRUBS, AND GRASSES THAT MUST BE REMOVED FOR CONSTRUCTION; PROTECT THE REST TO PRESERVE THEIR AESTHETIC AND EROSION CONTROL VALUES.

ALL DEWATERING FLOWS ARE TO BE SETTLED IN SILTATION BASINS OR DIRECTED THROUGH FILTERS BEFORE DISCHARGE TO STABILIZED SITES, SUCH AS STREAMS OR STORM SEWERS; NOT ONTO EXPOSED SOILS, STREAM BANKS, OR ANY OTHER SITES WHERE THE FLOW COULD CAUSE EROSION.

NO CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIAL, RAW SEWAGE, TREES, BRUSH, OR DEBRIS FROM DEMOLITION OR EXCAVATION ACTIVITIES WILL BE DISCHARGED OR DISPOSED OF ONTO OR ALONGSIDE ANY STREAM, WATERCOURSE, FLOODPLAIN, OR WETLAND UNDER ANY CIRCUMSTANCES.

THE OWNER HAS SUBMITTED A NOTICE OF INTENT (NOI) FOR COVERAGE UNDER GENERAL CONSTRUCTION STORM WATER PERMIT TO THE OHIO EPA. THE CONTRACTOR MUST SUBMIT A CO-PERMITEE NOI FOR THIS PROJECT AT LEAST 21 DAYS PRIOR TO THE START OF CONSTRUCTION.

SURFACE DRAINAGE

CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SURFACE DRAINAGE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS: - PROVISION, INSTALLATION, MAINTENANCE, AND REMOVAL OF TEMPORARY CULVERTS AT ACCESS

DRIVE AND BARRIER LOCATIONS.

- MAINTAIN OR IMPROVE EXISTING ROADSIDE DITCHES TO CARRY STORMWATER

FLOWS THROUGHOUT THE DURATION OF THE PROJECT. ROADSIDE DRAINAGE SHALL BE MAINTAINED SUCH THAT THE WATER SURFACE

SHALL BE A MINIMUM OF 9 INCHES BELOW THE ADJACENT ROADSIDE SURFACE.

PROHIBITED CONSTRUCTION ACTIVITIES

DISPOSAL OF EXCAVATED MATERIAL IN WETLANDS OR FLOOD PLAINS, REGARDLESS OF PERMISSION GRANTED BY PROPERTY OWNER; INDISCRIMINATE ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT, PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM SEWERS, DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE AND OTHER HARMFUL WASTES INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENTS, OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO. PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF A STREAM. DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA. DISPOSAL OF TREES, BRUSH, AND OTHER DEBRIS IN ANY STREAM CORRIDOR. OPEN BURNING OF PROJECT DEBRIS.

ARCHAEOLOGICAL/HISTORICAL RESOURCES

ENCOUNTERING HAZARDOUS OR TOXIC MATERIALS

IF THE CONTRACTOR ENCOUNTERS ANY ABNORMAL MATERIAL SUCH AS, BUT NOT LIMITED TO, DRUMS, TANKS, OR STAINED EARTH OR ANY UNUSUAL ODOR DURING CONSTRUCTION OPERATIONS, THE WORK IN THIS AREA SHALL BE TEMPORARILY DISCONTINUED, EQUIPMENT LEFT IN PLACE, THE AREA CORDONED OFF AND THE OWNER'S REPRESENTATIVE NOTIFIED. IF THE AREA IS CONSIDERED TO CONTAIN HAZARDOUS OR TOXIC MATERIAL IT MUST BE HANDLED CORRECTLY IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS. IF EQUIPMENT OR OPEN TRENCH IS WITHIN CLEAR ZONE, CONTRACTOR SHALL FOLLOW ODOT GUIDE LINES FOR PROTECTING AREA.

ALL TESTS REQUIRED BY THE CONTRACT SHALL BE PERFORMED BY A CERTIFIED LABORATORY.

BACKFILLING TRENCHES

BACKFILL REQUIREMENTS FOR SANITARY SEWERS AS NOTED IN SECTION 305 OF THE CITY'S CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL BE REVISED IN THAT ALL BACKFILL BETWEEN THE EDGE OF PAVEMENT AND 5' FROM THE EDGE OF PAVEMENT MAY BE TYPE B OR TYPE C ABOVE A 45° REPOSE FROM THE EDGE OF PAVEMENT. ALL BACKFILL BELOW THE 45° REPOSE SHALL MEET THE REQUIREMENTS OF TYPE A OR COMPACTED TRENCH MATERIAL.

TEMPORARY PAVEMENT REPLACEMENT

TEMPORARY PAVEMENT REPLACEMENT SHALL BE AS REQUIRED BY CMS SECTION 304.13 AMENDED TO REMOVE THE REQUIREMENT OF BITUMINOUS COLD MIX PROVIDED THE CONTRACTOR MAINTAINS THE PAVEMENT TO ALLOW FOR AN EVEN AND SAFE TEMPORARY PAVEMENT USING 304 LIMESTONE OR 100 LB. CDF.

DISTURBED AREA

DEWATERING WELLS

IF DEWATERING WELLS ARE USED, THE CONTRACTOR SHALL CONTACT THE OHIO DEPARTMENT OF NATURAL RESOURCES, DIVISION OF WATER, TO ASSURE PROPER WELL INSTALLATION AND ABANDONMENT OF WELLS. THE CONTRACTOR SHALL NOT DIRECT THE GROUNDWATER TO THE IMPOUNDMENT INTENDED FOR TRENCH DEWATERING DISCHARGES.

SERVICE LATERALS/RISER PIPES

SERVICE LATERAL PIPE SLOPES SHOWN ON THE PLANS ARE A MINIMUM REQUIREMENT AND THE CONTRACTOR MAY INCREASE THE SLOPE TO A MAXIMUM OF 15% IN ORDER TO REDUCE SERVICE LATERAL DEPTH WHERE POSSIBLE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING BUILDING PLUMBING ELEVATIONS. SERVICE LATERALS MUST BE A MINIMUM OF 4 FEET DEEP IN ALL LOCATIONS INCLUDING UNDER ROADS AND ROADSIDE DITCHES. THE CONTRACTOR SHALL INSTALL RISER PIPE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING Sa.S.-9 AT THE CONTRACTOR'S EXPENSE TO REDUCE SERVICE LATERAL DEPTH. COST FOR RISER PIPE SHALL BE INCLUDED IN ASSOCIATED SERVICE LINE BID ITEMS INCLUDED IN THE PLANS AND NO SEPARATE PAYMENT WILL BE MADE. CONTRACTOR SHALL PLACE TREATED 2"X4" POSTS AT EACH END OF LATERAL, AND MARK LATERAL DEPTH ON POST FOR LOCATING; COST SHALL BE INCLUDED IN ASSOCIATED SERVICE LINE BID ITEMS.

FARM DRAINS

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE CONSTRUCTION LIMITS BY ITEM 611 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 611 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE 1 FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 611, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

EPA REQUIREMENTS

FOR PARALLEL INSTALLATION, A MINIMUM HORIZONTAL SEPARATION OF 10 FEET BETWEEN GRAVITY SANITARY SEWERS AND ANY EXISTING OR PROPOSED POTABLE WATER MAINS SHALL BE MAINTAINED. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.

WHERE GRAVITY SEWER LINES CROSS EXISTING OR PROPOSED WATER MAINS, THE GRAVITY SEWER LINES SHALL BE LAID BELOW THE WATER MAINS TO PROVIDE A SEPARATION OF AT LEAST 18 INCHES BETWEEN THE INVERT OF THE WATER MAIN AND THE CROWN OF THE GRAVITY SEWER. THE LINES SHALL BE LAID SO THAT THE GRAVITY SEWER LINE JOINTS ARE AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE DISPOSAL SYSTEM ARE PROHIBITED.

WHEN FLEXIBLE PIPE (PVC, ABS, HDPE, ETC.) IS USED IT MUST BE TESTED FOR MAXIMUM DEFLECTION OF 5 PERCENT AFTER THE FINAL BACKFILL HAS BEEN IN PLACE NO LESS THAN 30 DAYS TO PERMIT STABILIZATION OF THE SOIL-PIPE SYSTEM. PIPE WITH A STIFFNESS OF 200 P.S.I. OR GREATER NEED NOT BE TESTED FOR DEFLECTION IF ALL PIPE BETWEEN MANHOLES IS LESS THAN 12 FEET BELOW FINAL GRADE.

THE RIGID BALL OR MANDREL USED FOR DEFLECTION TEST SHALL HAVE A DIAMETER NOT LESS THAN THAN 95 PERCENT OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION, INCLUDING APPENDIX, TO WHICH THE PIPE IS MANUFACTURED. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.

ALL PIPE, FLEXIBLE AND RIGID, SHALL BE SUBJECT TO A LEAKAGE TEST. THE LEAKAGE EXFILTRATION/INFILTRATION TEST SHALL BE A HYDROSTATIC OR AIR TEST. THE HYDROSTATIC LEAKAGE TEST SHALL NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM. IF AN AIR TEST IS USED, THE TEST SHALL CONFORM TO THE TEST PROCEDURE OUTLINED IN THE ASTM STANDARDS FOR THE MATERIAL OF PIPE USED.

THE LEAKAGE AND DEFLECTION TEST SHALL BE CONDUCTED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER. A REPRESENTATIVE OF THE PROFESSIONAL ENGINEER MAY SUPERVISE THE DEFLECTION AND LEAKAGE TESTS, BUT THE PROFESSIONAL ENGINEER MUST SIGN OFF ON THE RESULTS OF THE DEFLECTION AND LEAKAGE TESTS. THE OWNERS/ENGINEERS RESIDENT PROJECT REPRESENTATIVE FOR THIS PROJECT WILL OBSERVE ALL TESTING TO FULFILL THIS REQUIREMENT. RESULTS OF THE DEFLECTION AND LEAKAGE TESTS SHALL BE KEPT ON FILE AT LEAST 180 DAYS BY THE ENTITY RESPONSIBLE FOR THE SEWERAGE SYSTEM, AND SHALL BE AVAILABLE UPON REQUEST BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY. ANY LINES WHICH FAIL THE DEFLECTION OR LEAKAGE TEST MUST BE REPAIRED AND RETESTED UNTIL THEY MEET THE REQUIREMENTS WHICH HAVE BEEN SET FORTH WITHIN THIS CONDITION.

THE SOUTHEAST DISTRICT OFFICE OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY SHALL BE NOTIFIED IN WRITING AS TO (A) THE CONSTRUCTION STARTING DATE; (B) THE CONSTRUCTION COMPLETION DATE.

ALL GRAVITY SANITARY SEWERS WHICH ARE LOCATED IN WELL FIELD AREA SHALL COMPLY WITH AND BE TESTED AS SPECIFIED IN OHIO ENVIRONMENTAL PROTECTION AGENCY GUIDELINE, GRAVITY SEWERS IN WELL FIELD AREAS, FEBRUARY 1983.

DUE TO PROJECT AREA BEING WITHIN THE RANGE OF THE INDIANA BAT AND NORTHERN LONG-EARED BAT, THE ALLOWABLE TREE CLEARING TIMEFRAME HAS BEEN LIMITED TO BETWEEN OCTOBER 1 AND MARCH 30.

CONTRACTOR RESPONSIBILITIES:

THE OWNER DOES NOT HAVE RECORD INFORMATION FOR THE LOCATION OF LATERAL CONNECTIONS TO THE SEWERS BEING REPLACED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR LOCATING THE EXISTING LATERAL CONNECTIONS VIA CCTV AND ENSURING ALL EXISTING SERVICES ARE RECONNECTED TO THE NEW SEWER. THE LOCATION OF THE LATERAL CONNECTIONS SHOWN ON THE PLANS ARE ASSUMED TO ESTABLISH BID QUANTITIES AND SHALL BE ADJUSTED BASED ON THE RESULTS OF THE CCTV INSPECTION. CLEANING OF THE EXISTING SEWER LINES AND BYPASS PUMPING OF EXISTING FLOW TO ACCOMMODATE CCTV INSPECTION IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SEQUENCING THE WORK TO MAINTAIN SERVICE TO EXISTING CUSTOMERS AT

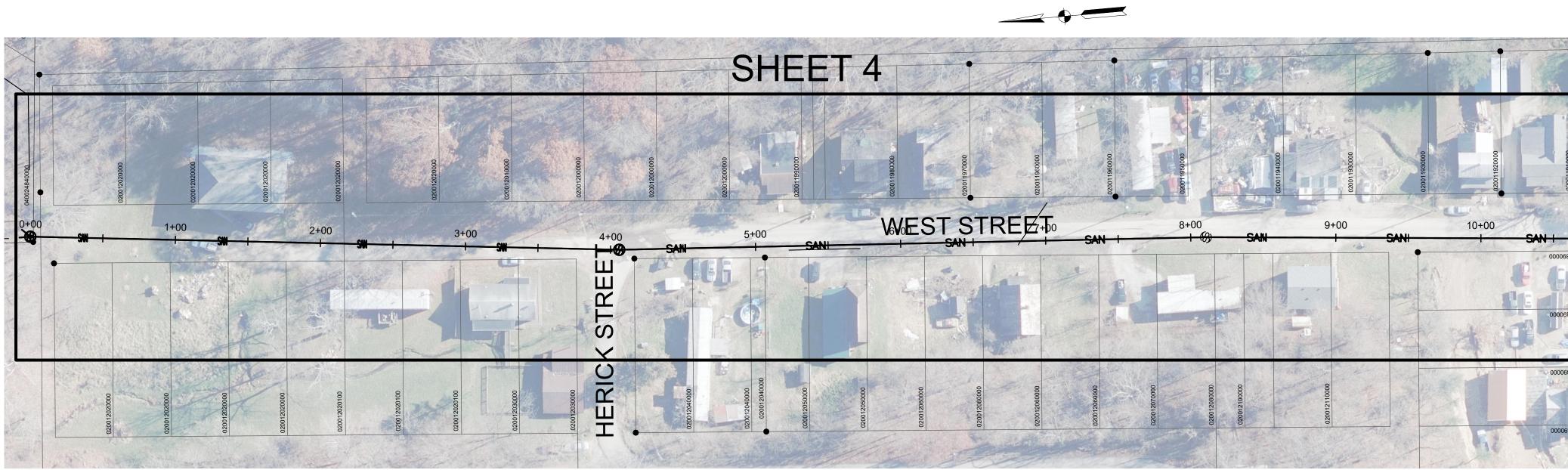
ALL TIMES WITH ONLY SHORT INTERRUPTIONS. THE CONTRACTOR IS RESPONSIBLE FOR BYPASS PUMPING OF SEWAGE IN THE EXISTING SEWERS TO COMPLETE THE WORK. THE CONTRACTOR SHALL INCLUDE BYPASS PUMPING OPERATIONS IN THE PROJECT SCHEDULE PRESENTED AT

THE PRECONSTRUCTION MEETING. THE CONTRACTOR SHALL PERFORM CCTV INSPECTION OF ALL NEWLY INSTALLED SEWERS AS PART OF THE TESTING WORK FOR FINAL ACCEPTANCE. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE BID PRICES FOR THE ASSOCIATED ITEMS. IF DEFICIENCIES ARE FOUND THAT REQUIRE REPLACEMENT OR REPAIR, THE SEWER SHALL BE REINSPECTED VIA CCTV AFTERWARDS TO VERIFY IT IS ACCEPTABLE.

CONTRACTOR SHALL RELOCATE ANY EXISTING RESIDENTIAL SERVICE LATERALS(S) FOUND IN MANHOLES(S) TO A WYE.

DISTURBED LAND EXPOSED LONGER THAN 15 DAYS SHALL BE TEMPORARILY STABILIZED BY SEEDING AND MULCHING.

PR	OJECT	NO	2228453500
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	HOCKING COUNTY COMMISSIONERS	WEST STREET SANITARY SEWER IMPROVEMENTS	GENERAL NOTES
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DATE	5/8/23		
			30661 RED ROCK COURT LOGAN, OHIO 43138 (740) 380-2828 FAX (740) 380-3535 DLZ OHIO, INC
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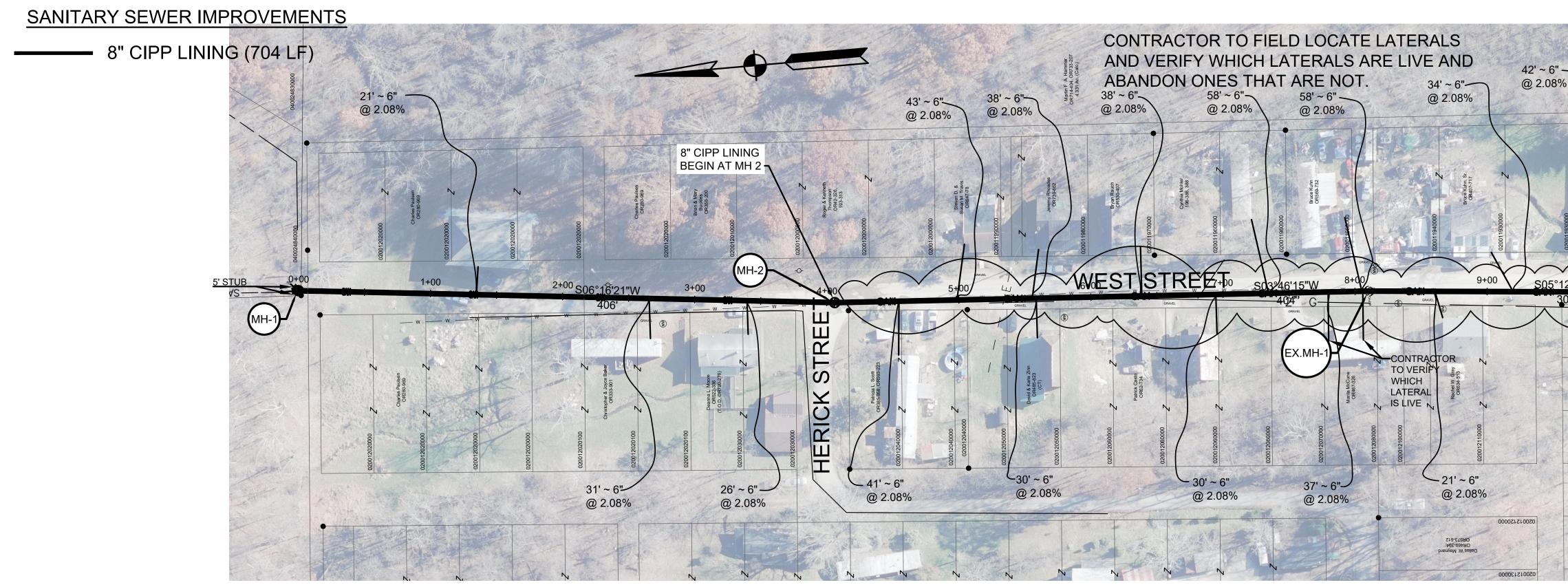
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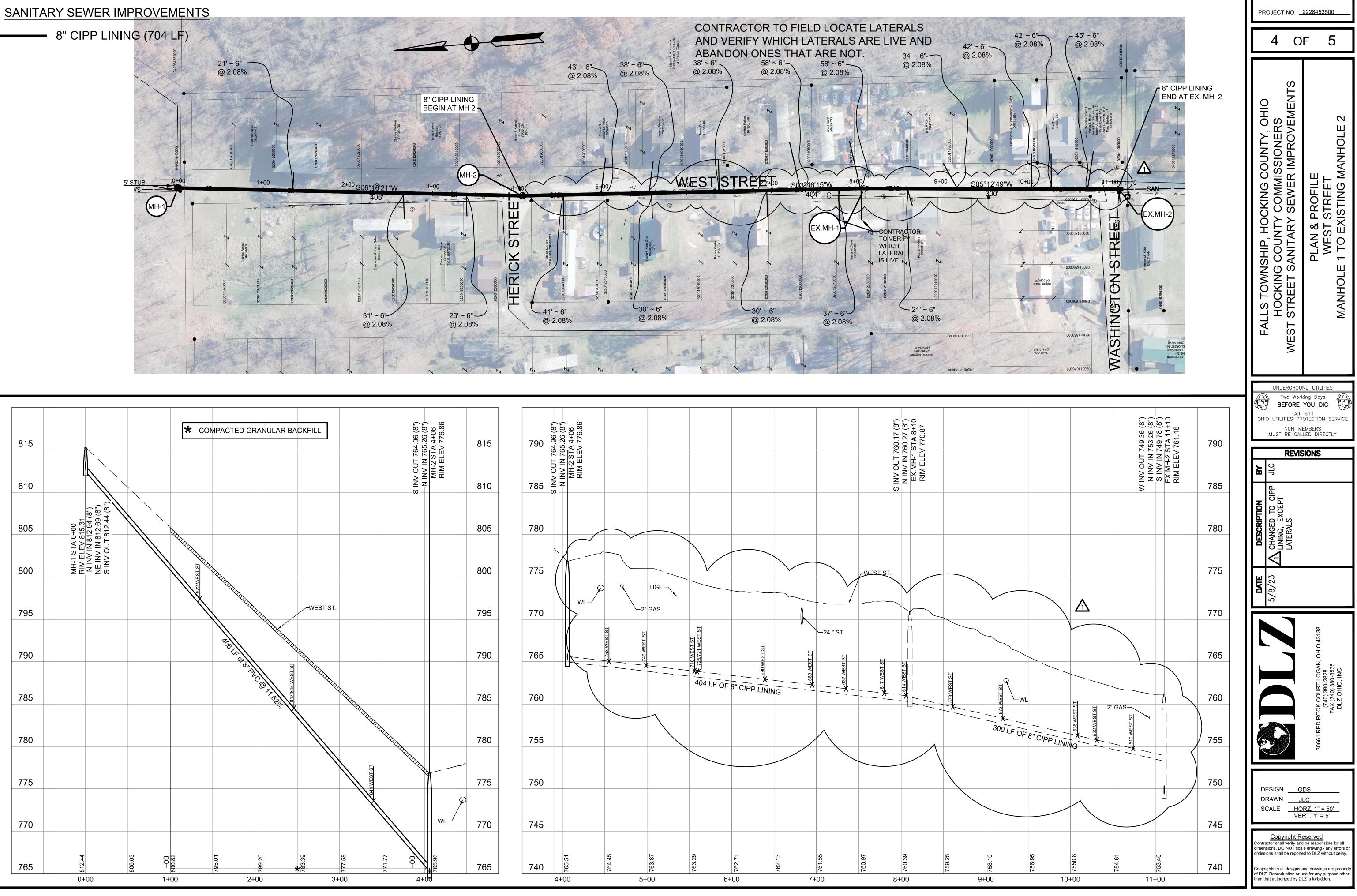
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	BENCH MARK	€ ^{BM}
	PROPOSED MANHOLE	8
	PROPOSED SANITARY SEWER	5+00
	PROPOSED 6" SERVICE LINE REPLACEMENT	28'
		$\overline{(220)}$
	PROPOSED CONCRETE CURB, 2.0/2.5' WIDE	

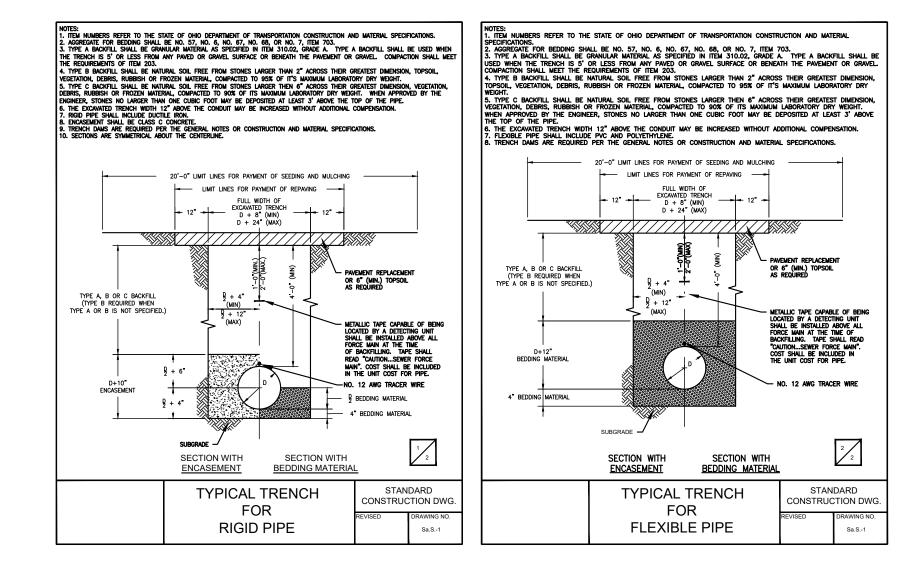
			ENGINEER'S ESTIMATE OF QUANTITIES	SHT	
ITEM NO.	TOTAL	UNIT	DESCRIPTION	4	
	(704)	LF	8" CIPP SEWER LINING	704	
	2	EA	MANHOLE CIPP LINING	2 \$	$]\Lambda$
		EA	LATERAL MAIN CONNECTION CIPP (LMC)	14	
	416	LF	8" SANITARY SEWER PIPE	416	
	17	EA	8" X 6" WYE	17	
	635	LF	6" SANITARY SEWER SERVICE	635	
	2	EA	STANDARD PRECAST MANHOLE	2	
	1	LS	CONSTRUCTION STAKING	1	
201	1	LS	CLEARING AND GRUBBING	1	
207	1	LS	TEMPORARY EROSION AND SEDIMENT CONTROL	1	
301	(49)	CY	6" ASPHALT CONCRETE BASE, ROADS	(48.15)	
304	21	CY	6" CRUSHED LIMESTONE, DRIVEWAYS	20.74	
441	(120)	СҮ	2" ASPHALT CONCRETE SURFACE COURSE, ROADS	(120)	
452	9	SY	6" NON REINFORCED CONCRETE PAVEMENT	8.89	
611	20	LF	6" & SMALLER PIPE CULVERTS, SEWERS, DRAINS, TYPE D	20	
611	10	LF	12" PIPE CULVERTS, SEWERS, DRAINS, TYPE D	10]
614	1	LS	MAINTAINING TRAFFIC	1	1
659	(683)	SY	SEEDING AND MULCHING	682.22]
659	0.1	TON	COMMERCIAL FERTILIZER	0.1	1
703	(822)	CY	COMPACTED GRANULAR BACKFILL	(821.67)	

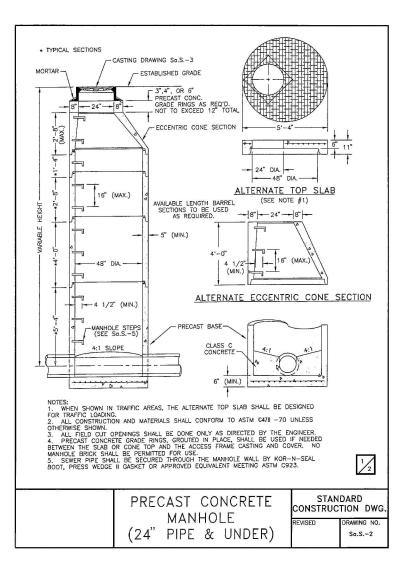
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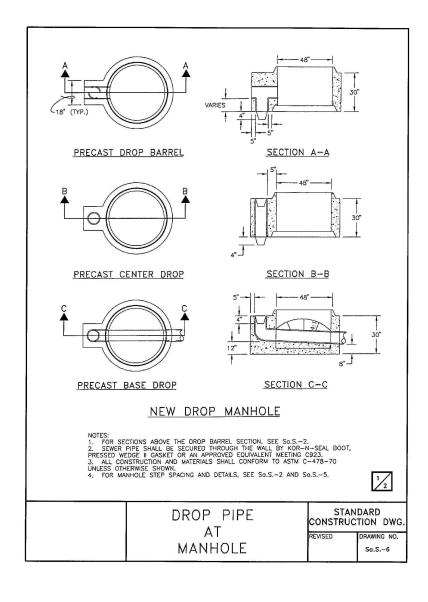
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	HOCKING COUNTY COMMISSIONERS	WEST STREET SANITARY SEWER IMPROVEMENTS	INDEX SHEET
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	MUST	BE CAL	LED DIRECTLY
		REVIS	IONS
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DATE	5/8/23	5/8/23	•
			30661 RED ROCK COURT LOGAN, OHIO 43138 (740) 380-2828 FAX (740) 380-3535 DLZ OHIO, INC
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DEGREE OF BEND

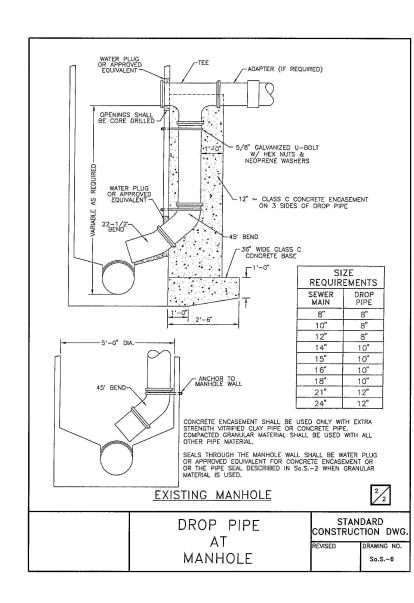
NOTES: 1. CONCRETE FOR BACKING SHALL BE CLASS C. 2. BACKING SHALL BE DESIGNED FOR 3000 PSF SOIL BEARING. 3. REINFORCING STEEL SHALL BE USED AS DIRECTED BY THE ENGINEER. 4. CONORCTE SHALL BE PLACED AGAINST UNDISTURBED EARTH. 5. BACKING SHALL BE CENTERED HORIZONTALLY. 5. BACKING SHALL BE CENTERED HORIZONTALLY.

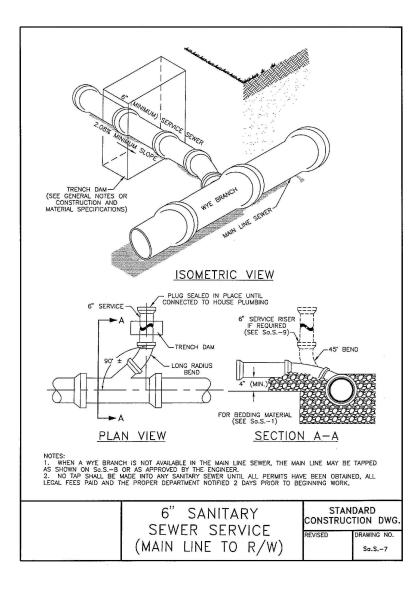
N BENU. ANY PIPE WHICH COMES IN CONTACT WITH THE DNCRETE ENCASEMENT SHALL BE DUCTILE IRON.

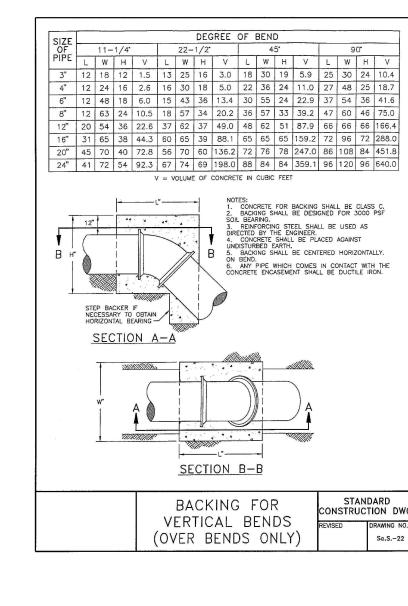
STANDARD

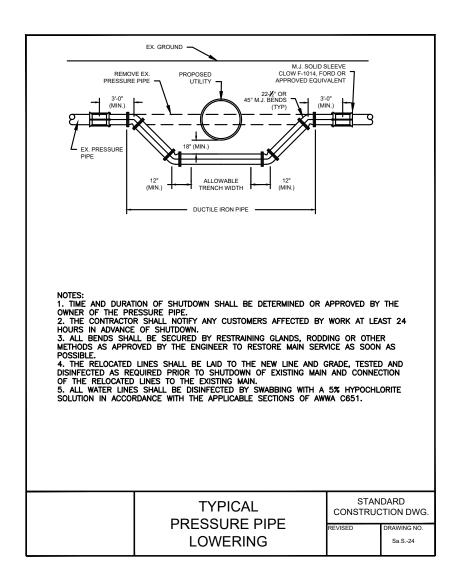
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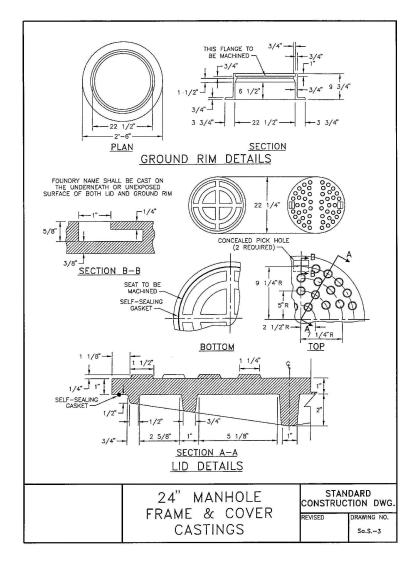
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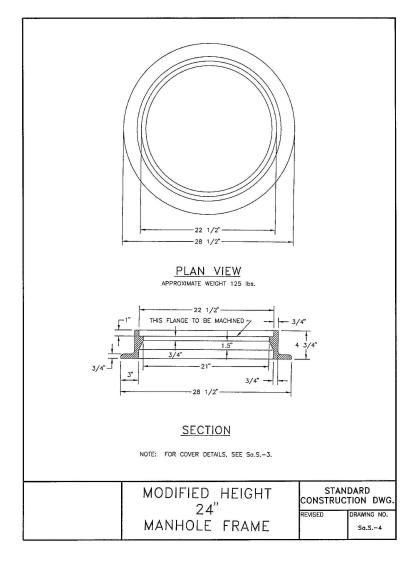


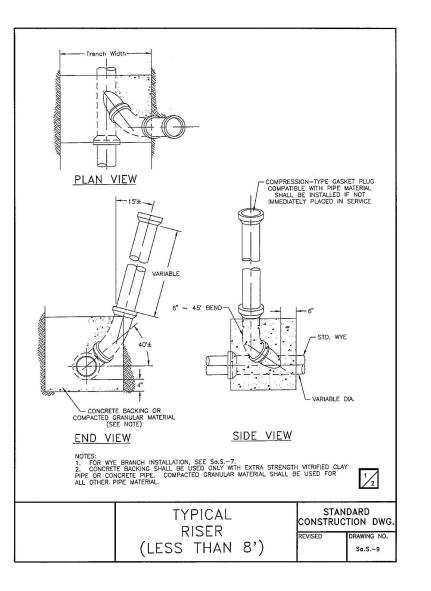


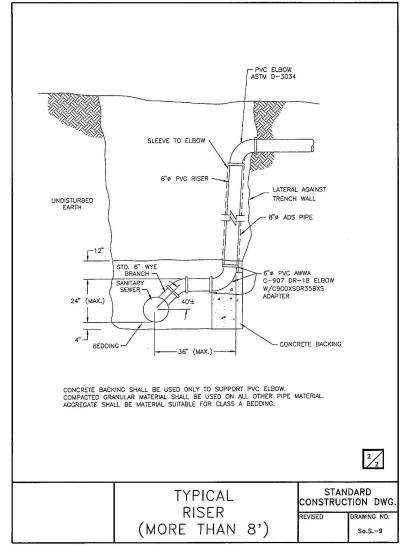


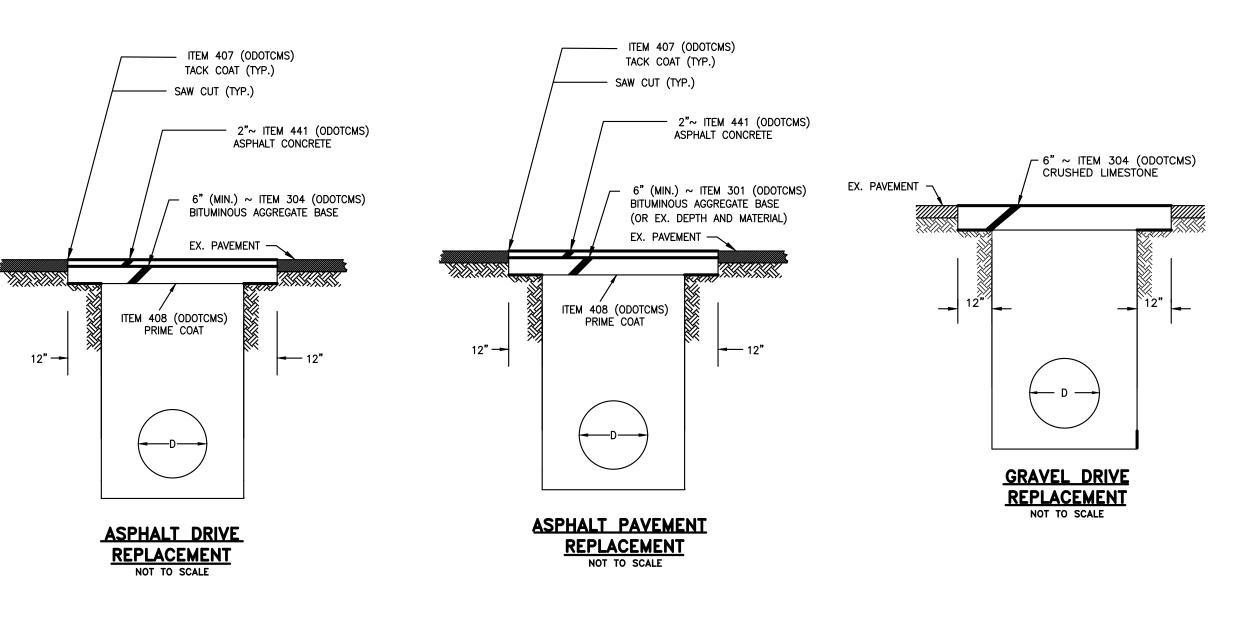


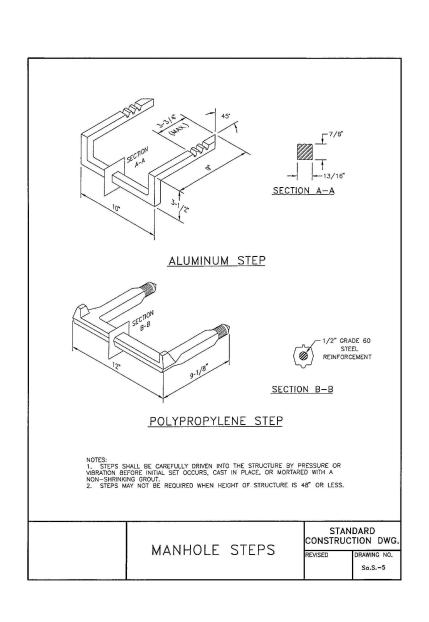


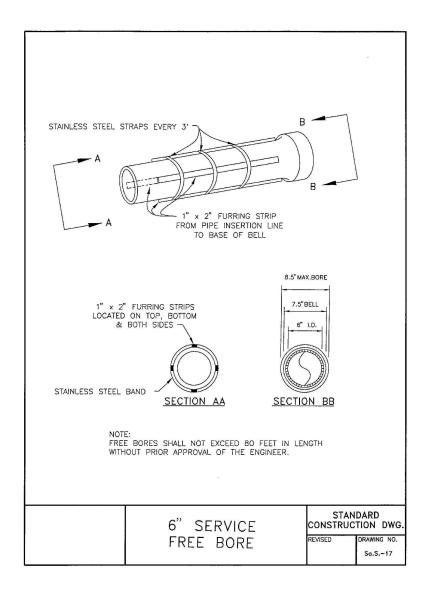


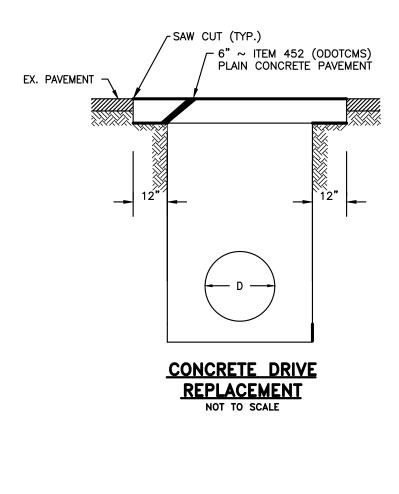


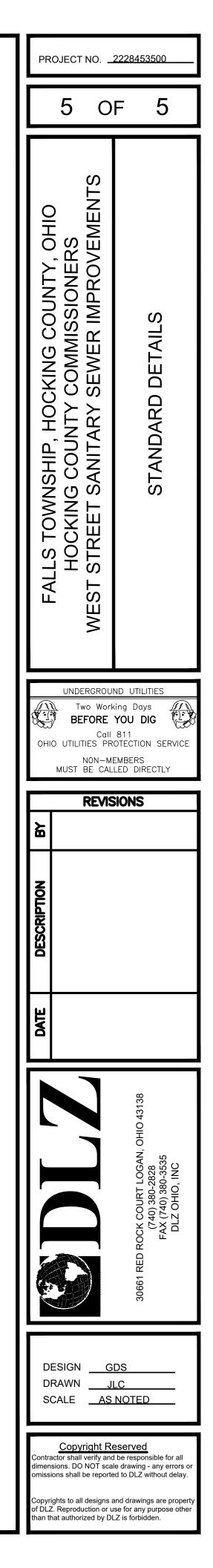












SEWER AND MANHOLE REHABILITATION

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PART 1. CLEANING

1.01 INTENT: Prior to any rehabilitation work, sewer lines and manholes to be repaired shall be thoroughly cleaned in accordance with the following specifications.

1.02 CLEANING EQUIPMENT

- A. <u>Hydraulically Propelled Equipment:</u> The equipment used shall be of a Movable dam type and be constructed in such a way that a portion of the dam may be collapsed at any time during the cleaning operation to protect against flooding of the sewer. The movable dam shall be equal in diameter to the pipe being cleaned and shall provide a flexible scraper around the outer periphery to insure removal of grease. If sewer cleaning balls or other equipment, which cannot be collapsed, is used, special precautions to prevent flooding of the sewers and public or private property shall be taken.
- B. <u>High Velocity Jet (Hydro cleaning) Equipment:</u> All high-velocity sewer cleaning equipment shall be constructed for ease and safety of operation. The equipment shall have a selection of two or more high-velocity nozzles. The nozzles shall be capable of producing a scouring action from 15 to 45 degrees in all size lines designated to be cleaned. Equipment shall also include a high-velocity gun for washing and scouring manhole walls and floor. The gun shall be capable of producing flows from a fine spray to a solid stream. The equipment shall carry its own water tank, auxiliary engines, pumps, and hydraulically driven hose reel.
- C. <u>Mechanically Powered Equipment:</u> Bucket machines shall be in pairs sufficient power to clean the lines in accordance with the requirements of this specification. Machines shall be belt operated or have overload device. Machines with direct drive that could cause damage to the pipe will not be allowed. A power rodding machine shall be either a sectional or continuous rod type capable of holding a minimum of 750 feet of rod. The rod shall be specifically heat-treated steel. To insure safe operation, the machine shall be fully enclosed and have an automatic safety clutch or relief valve. The machine shall be operated in a fashion as to not damage the existing sewer line.
- 1.03 CLEANING PRECAUTIONS: During sewer and manhole cleaning operations, satisfactory precautions shall be taken in the use of cleaning equipment. When hydraulically propelled cleaning tools (which depends upon water pressure to provide their cleaning force) or tools which retard the flow in the sewer line are used, precautions shall be taken to insure that the water pressure created does not damage or cause flooding of public or private property being served by the sewer. When sufficient flow is present, the flow of sewage in the sewer shall be utilized to provide the necessary pressure for hydraulic cleaning devices. When additional

water is necessary to avoid delay in normal work procedures, the Contractor is required to provide water at his cost. Public water from hydrants is not available from Owner.

1.04 MANHOLES: The contractor shall be responsible to locate and uncover all designated manholes. The designated sewers and manholes shall be cleaned using hydraulically propelled, high-velocity jet, or mechanically power equipment. Selection of the equipment used shall be based on conditions of lines at the time work commences. The contractor shall submit a list of the equipment and methods selected for the project prior to the start of work. The equipment shall be capable of removing dirt, grease, rocks, sand, and other materials and obstructions from the sewer lines and manholes. If cleaning of an entire section cannot be successfully performed from one manhole, the equipment shall be set up the adjoining manhole and cleaning again attempted. If, again, successful cleaning cannot be performed or the equipment fails to traverse the entire manhole section, it will be assumed that a major blockage exists and the cleaning effort shall be abandoned.

1.05 ROOT REMOVAL

- A. Roots shall be removed in all sections where root intrusion is present. Special attention should be used during the cleaning operation to assure complete removal of roots from the joints. Any roots which will prevent the seating of the packer or prevent the proper application of chemical sealants shall be removed. Procedures may include the use of mechanical equipment such as rodding machines, bucket machines and winches using root cutters and porcupines, and equipment such as high-velocity jet cleaners. Chemical root treatment may be used at the option of the contractor and as approved by the owner.
- B. <u>Chemical Root Treatment:</u> To aid in the removal of roots and at the option of the contractor, sewer sections and manholes that have root intrusion may be treated with an approved herbicide. See Part 5, Chemical Root Treatment.

1.06 MATERIAL REMOVAL

- A. All sludge, dirt, rocks, grease, and all other solid or semisolid material resulting from the cleaning operation shall be removed at the downstream manhole of the section being cleaned. Passing material through the sewer system, which could cause line stoppages, accumulations of debris in wet wells, or damage equipment, shall not be permitted.
- B. <u>Disposal of Materials:</u> All solids or semisolids resulting from the cleaning operations shall become the property of the Contractor and shall be removed from the site and disposed of in a legal matter. All materials shall be removed from the site no less often than at the end of each workday. Under No circumstances will the contractor be allowed to accumulate debris, etc., on the site of work beyond the

stated time, except when in totally enclosed containers and as approved by the owner.

1.07 FINAL ACCEPTANCE: Acceptance of the sewer line cleaning shall be made upon satisfactory cleaning being shown by television inspection and shall be to the satisfaction of the owner or the owner's representative. If TV inspection shows the cleaning to be unsatisfactory, the contractor shall be required to re-clean and re-inspect the sewer line until the cleaning is shown to be satisfactory. In areas where television inspection is not performed, the owner or the owner's representative may require the contractor to pull a double squeegee (with each squeegee the same diameter as the sewer) through the sewers as evidence of adequate cleaning. If internal sealing is to follow the television inspection, particular attention should be given to the adequacy of the cleaning to insure that proper seating of the sealing packer could be achieved.

1.08 SEWER FLOW CONTROL

- A. When sewer line depth of the flow at the upstream manhole of the sewer section being worked is above the maximum allowable for television inspection, joint testing and/or sealing; the flow shall be reduced to the level shown below by operation of pump stations, plugging or blocking of the flow, or by pumping and bypassing of the flow as specified.
- B. Depth of flow shall not exceed that shown below for the respective pipe sizes as measured in the manhole when performing television inspection, joint testing and/or sealing.

Maximum Depth Flow	 Television Inspection
6" – 10" Pipe 12" - 24" Pipe 27" & up Pipe	 20% of pipe diameter 25% of pipe diameter 30% of pipe diameter

C. <u>Plugging or blocking:</u> If plugging is required, a sewer line plug shall be inserted into the line upstream of the sewer section being worked. The plug shall be so designed that all or any portion of the sewage can be released. During TV inspection, testing and sealing operations, flow shall be reduced to within the limits

1.

specified above. After the work has been completed, flow shall be restored to normal.

- D. <u>Pumping and Bypassing:</u> When pumping and bypassing is required the contractor shall supply the pumps, conduits, and other equipment to divert the flow of sewage around the sewer section in which work is to be performed. The bypass system shall be of sufficient capacity to handle existing flow plus additional flow that may occur during a rainstorm. The contractor will be responsible for furnishing the necessary labor and supervision to set up and operate the pumping and bypassing system. If pumping is required on a 24-hour basis, engines shall be equipped in a manner to keep noise to a minimum.
- E. <u>Flow Control Precautions:</u> When flow in a sewer line is plugged, blocked, or bypassed, sufficient precautions must be taken to protect the sewer lines and adjacent property owners from damage that might result from sewer lines and adjacent property owners from damage that might result from sewer surcharging. Further, precautions must be taken to insure that sewer flow control operations do not cause flooding or damage to public or private property being served by the sewers involved. The Contractor is responsible for any damages to private property, overflows, or basement flooding resulting from his work.

PART 2. TELEVISION INSPECTION

2.01 INTENT: After cleaning, the sewer sections shall be visually inspected by means of closedcircuit television. The inspection will be done one sewer section at a time and the flow in the section being inspected will be suitably controlled as specified. (See section 1.1.i Sewer Flow Control.)

2.02 EQUIPMENT

- A. The television camera used for the inspection shall be one specifically designed and constructed for such inspection. Lighting for the camera shall be suitable to allow a clear picture of the entire periphery of the pipe. The camera shall be operative in 100% humidity conditions. The camera shall be a radial view type capable of viewing 360 degrees within the pipe and shall provide an unobstructed view of the full pipe. The camera, television monitor, and other components of the video system shall be capable of producing picture quality to the satisfaction of the owner or the owner's representative; and if unsatisfactory, equipment shall be removed and no payment will be made for the unsatisfactory inspection.
- B. The camera shall be moved through the line in either direction at a moderate rate, stopping when necessary to permit proper documentation of the sewer's condition. In no case will the television camera be pulled at a speed greater than 20 feet per minute. Manual winches, power winches, TV cable, and power rewinds or other devices that do not obstruct the camera view or interfere with the proper documentation of the sewer conditions shall be used to move the camera through the sewer lines. If during the inspection operation, the television camera will not pass through the entire sewer section, the contractor shall set up his equipment so that the inspection can be performed from the opposite manhole. If, again, the camera fails to pass through the entire sewer section, it shall be assumed that a major blockage exists and no additional inspection work will be required.
- C. When manually operated winches are used to pull the television camera through the line, telephones or other suitable means of communication shall be set up between the two manholes of this section being inspected to ensure good communications between members of the crew.
- D. The importance of accurate distance measurements is emphasized. Measurement for location of the features shall be above ground by means of a meter device. Marking on the cable, or the like, which would require interpolation for depth of manhole, will not be allowed. Accuracy of the distance meter shall be checked by use of a walking meter, roll-a-tape, or other suitable device, and the accuracy shall be satisfactory to the owner or owner's representative. Television logs shall be compiled depicting the location of all the items described in section 2.03.

2.03 DOCUMENTATION

- A. Documentation of the television results shall be as follows:
 - 1. <u>Television Inspection Logs</u>: Printed location records shall be kept by the contactor and will clearly show the location in relation to the adjacent manhole of each infiltration point observed during inspection.
 - 2. In addition, other points of significance such as locations of the building sewers, unusual conditions, roots, storm sewer connections, broken pipe, presence of scale and corrosion, and other discernible features will be recorded and two copies of such records will be supplied to the owner.
 - 3. <u>Video Recordings:</u> The purpose of video recordings shall be to supply a visual and audio record of problem areas of the lines that may be replayed. Video recording playback shall be at the same speed that it was recorded. Slow motion or non-stop playback features may be supplied at the option of the contractor. The Owner shall be supplied digital copies of the recordings throughout the project in a format acceptable to the Owner and Engineer. The contractor shall have all videos and necessary playback equipment readily accessible for review by the owner during the project.

PART 3. SEWER PIPE JOINT TESTING

- 3.01 INTENT: The intent of pipe joint testing is to identify those sewer pipe joints that are defective (allowing groundwater to enter the sewer system) and that can be successfully sealed by the internal pipe joint sealing process. Testing of joints which are visibly leaking (infiltrating) is unnecessary because the intent of testing is obviously attained.
- 3.02 APPLICATION: Sewer pipe joint testing is used to test the integrity (tightness or leakage) of individual pipe joints. Testing cannot be performed and will not be required on cracked or broken pipe, building sewers, or sections of pipe between joints.
- 3.03 EQUIPMENT: The basic equipment used shall consist of a television camera, joint testing device (such as a packer), and test monitoring equipment. The equipment shall be constructed in such way to provide means for introducing a test medium, under pressure, into a VOID area created by the expanded ends of the joint testing device and a means for continuously measuring the actual static pressure of the test medium within the VOID area only.

Void pressure data shall be transmitted electrically from the VOID to the monitoring equipment. Example: via a TV picture of a pressure gauge located at the VOID, or via an electrical pressure transducer located at the VOID.

All test monitoring shall be above ground and in location to allow for simultaneous and continuous observation of the television monitor and test monitoring equipment by the owner's representative.

- 3.04 TEST MEDIUM: Either liquid or gas shall be used as the test medium. Both liquid (usually water) and air are acceptable, but the test procedure is different for each.
- 3.05 TEST PRESSURE: Joint test pressure shall be 3 psi higher than the groundwater pressure, if any, outside the pipe. For testing purposes, groundwater pressure can be determined by positioning the testing device on a visibly infiltrating joint measuring the resulting VOID pressure with the VOID pressure monitoring equipment.

In the absence of groundwater pressure data, the test pressure shall be equal to $\frac{1}{2}$ psi per vertical foot of pipe depth. The maximum test pressure shall be 10 psi and a minimum test pressure 5 psi.

- 3.06 TEST PROCEDURES: Each sewer pipe joint which is not visibly leaking shall be individually tested at the above-specified test pressure (not exceeding a test pressure of 10 psi) in accordance with one of the following procedures.
 - A. <u>Liquid Test Procedure:</u>

- 1. The testing device shall be positioned within the line in such a manner as to straddle the pipe joint to be tested.
- 2. The testing device end elements (sleeves) shall be expanded so as to isolate the joint from the remainder of the line and create a VOID area between the testing device and the pipe joint. The ends of the testing device shall be expanded against the pipe with sufficient inflation pressure to contain the test liquid within the void without leakage past the expanded ends.
- 3. Water or an equivalent liquid shall then be introduced into the VOID area until a pressure equal to or greater than the required test pressure is observed with the VOID pressure monitoring equipment. If the required test pressure cannot be developed (due to joint leakage), the joint will have failed the test and shall be sealed as specified (see PART 4, SEWER PIPE JOINT SEALING).
- 4. The flow rate of the test liquid shall then be adjusted to a rate which maintains a VOID pressure equal to the test pressure. A reading of the test liquid flow meter shall then be taken. If the flow rate exceeds ¹/₄ gallon per minute (due to joint leakage), the joint will have failed the test and shall be sealed as specified (see PART 4, SEWER PIPE JOINT SEALING) the test shall be performed for a minimum of one minute at the test pressure.
- B. <u>Air Test Procedure:</u>
 - 1. The testing device shall be positioned within the line in such a manner as to straddle the pipe joint to be tested.
 - 2. The testing device end elements (sleeves) shall be expanded so as to isolate the joint from the remainder of the line and create a VOID area between the testing device and the pipe joint. The ends of the testing device shall be expanded against the pipe with sufficient inflation pressure to contain the air within the VOID without leakage past the expanded ends.
 - 3. Air shall then be introduced into the VOID area until a pressure equal to or greater than the required test pressure is observed with the VOID pressure monitoring equipment. If the required test pressure cannot be developed (due to joint leakage), the joint will have failed the test and shall be sealed as specified (see PART 4, SEWER PIPE JOINT SEALING).
 - 4. After the Void pressure is observed to be equal to or greater than the required test pressure, the airflow shall be stopped. If the VOID pressure decays by more than 2 psi within 15 seconds (due to joint leakage), the joint will have failed the test and shall be sealed as specified (see SEWER PIPE JOINT SEALING).

3.07 CONTROL TEST

- A. Prior to starting the pipe joint testing phase of the work, a two-part control test shall be performed as follows:
 - 1. To insure accuracy, integrity, and performance capabilities of the testing equipment, a demonstration test will be performed in a test cylinder constructed in such a manner that a minimum of two known leak sizes can be simulated. This technique will establish the test equipment performance capability in relationship to the test criteria and insure that there is no leakage of the test medium from the system or other equipment defects that could affect the joint testing results. If this test cannot be performed successfully, the contractor shall be instructed to repair or otherwise modify his equipment and repeat the test until the results are satisfactory to the owner or his representative. This test may be required at any other time during the joint testing work if the owner or his representative suspects the testing equipment is not functioning properly.
 - 2. After entering each sewer section with the test equipment, but prior to the commencement of joint testing, the test equipment shall be positioned on a section of sound sewer pipe between pipe joints, and a test performed as specified. This procedure will demonstrate the reality of the test requirement, as no joint will test in excess of the pipe capability. Should it be found that the barrel of the sewer pipe will not meet the joint test requirements, the requirements will be modified as necessary.

3.08 TEST RECORDS

- A. During the joint testing work, records shall be kept which include:
 - 1. Identification of sewer section tested;
 - 2. The test pressure used;
 - 3. Location (footage) of each joint tested;
 - 4. A statement indicating the test results for each joint tested including the amount of grout applied to failing joints.
- B. Copies of weekly tests records shall be provided to the Owner or the Owner's representative.

PART 4. SEWER PIPE JOINT SEALING

- 4.01 INTENT: It is the intent of the sewer pipe joint sealing work to seal the sewer pipe joints which have a leakage rate of ¹/₄ gallon per minute or 2 psi within 15 seconds by utilizing the internal joint sealing method. It is recognized that this method may only be used on sewer pipe sections in sound physical condition. Longitudinally cracked or broken pipe will not be sealed. When bell cracks or chips are evident from pipe section offset, sealing may be undertaken where the offset is small enough to allow proper seating of the sealing packer on both sides of the joint sealed.
- 4.02 EQUIPMENT: The basic equipment shall consist of a closed-circuit television system (see PART 2, TELEVISION INSPECTION), necessary chemical sealant containers, pumps, regulators, valves, hoses, etc., and joint sealing packers for the various sizes of sewer pipe. The packer shall be cylindrical and have a diameter less than the pump size and have cables attached at each end to pull it through the line. The packer device shall be constructed in a manner to allow a restricted amount of sewage to flow. Generally, the equipment shall be capable of performing the specified operations in lines where flows do not exceed the maximum line flows for joint testing/sealing (see SEWER FLOW CONTROL).

4.03 EXECUTION

A. Joint Sealing Procedure: Joints showing visible leakage or joints that have failed the joint test specified (see PART 3, SEWER PIPE JOINT TESTING) should be sealed as specified. Joint sealing shall be accomplished by forcing chemical sealing materials into or through faulty joints by a system of pumps, hoses, and sealing packers. Jetting or driving pipes from the surface that could damage or cause undermining of the pipelines shall not be allowed. Uncovering the pipe by excavation of pavement and soil (which would disrupt traffic, undermine adjacent utilities and structures, and cause further damage to the pipes being repaired) shall not be allowed. The packer shall be positioned over the faulty joint by means of a measuring device and the closed-circuit television camera in the line. It is important that the procedure used by the contractor for positioning the packer be accurate to avoid over pulling the packer and thus not effectively sealing (grouting) the intended joint. The packer ends (end elements sleeves) shall be expanded using controlled pressure. The expanded ends shall seal against the inside periphery of the pipe to form a VOID area at the faulty joint, now completely isolated from the remainder of the pipeline. Into this isolated area, sealant materials shall be pumped through the hose system at controlled pressures, which are in excess of groundwater pressures. The pumping unit, metering equipment, and the packer device shall be designed so that proportions and quantities of materials can be regulated in accordance with the type and size of the leak being sealed.

- B. Joint Sealing Verification: Upon completing the sealing of each individual joint the packer shall be deflated until the void pressure meter reads zero pressure, then re-inflated and the joint retested as specified (see SEWER PIPE JOINT TESTING). Should the VOID pressure meter not read zero, the contractor shall clean his equipment repairs/adjustments to produce accurate VOID pressure readings. Joints that fail to meet specified test criteria shall be resealed and retested until the test criteria can be met in order to receive payment.
- C. <u>Residual Sealing Material:</u> Residual-sealing materials that extend into the pipe, reduce the pipe diameter, or restrict the flow shall be removed from the joint. The sealed joints shall be left reasonably "flush" with the existing pipe surface. If excessive residual sealing materials accumulate in the line the sewer section shall be cleaned to remove the residual materials.
- D. <u>Records:</u> The contractor shall compile complete records of joint sealing performed in each sewer section. The records shall identify the sewer section in which the sealing was done, the location of each joint sealed, the type and quantity of material used, and the joint sealing verification results (see SEWER PIPE JOINT TESTING, Test Records). Weekly copies of complete records shall be provided to the owner or owner's representative.

4.04 GUARANTY

- A. All sewer pipe joint sealing work performed shall be guaranteed against faulty workmanship and/or materials for a period of one year after the completion of the work.
 - 1. Prior to the expiration of the guaranty period, the owner or his representative shall select an initial retest area consisting of specific sewer sections. Sewer sections to be retested shall be randomly selected throughout the project area and shall be representative of the majority of the sealing work originally performed. The initial test area shall consist of at least 5%, but not to exceed 10%, of the lineal feet contained in the original project.
 - 2. Within the initial retest area, the Contractor shall retest all previously sealed joints as specified (see SEWER PIPE JOINT TESTING). Any joints failing the retest shall be resealed. If the failure rate of the retested joints is less than 5% of the joints retested, the work shall be considered satisfactory and no further retesting will be required. Payment for retesting the initial area shall be at the unit price bid for joint testing. No compensation shall be provided for resealing (grouting) joints that fail.

- 3. If, in the initial retest area, the failure rate of the retested joints exceeds 5% of the joints retested, an additional retest area of equivalent size shall be selected and all previously sealed joints shall be retested. This additional testing and sealing, if necessary, will continue until the failure rate of less than 5% is met. Any additional testing/sealing required beyond the initial retest area shall be accomplished at no cost to the owner.
- 4. Should as much as 25% of the original project be retested and fail to meet the 5% requirement, the contractor will be required to provide the same number crews as utilized in the original project so that retesting will proceed at am more rapid rate.

4.05 CHEMICAL SEALING MATERIALS

- A. <u>General:</u> All chemical-sealing materials used in the performance of the work specified must have the following properties and characteristics:
 - 1. While being injected, the chemical sealant must be able to react/perform in the presence of water (groundwater).
 - 2. The cured material must with stand submergence in water without degradation.
 - 3. The resultant sealant (grout) formation must prevent the passage of water (infiltration) through the sewer pipe joint.
 - 4. The sealant material after curing must be flexible.
 - 5. In place, the sealant formation should be able to withstand freeze/thaw and wet/dry cycles without adversely affecting the seal.
 - 6. The sealant formation must not be biodegradable.
 - 7. The cured sealant should be chemically stable and resistant to the mild concentration of acids, alkalis, and organics found in normal sewage.
 - 8. Packaging of component materials must be compatible with field storage and handling requirements as recommended by the product manufacturer. Packaging must provide for worker safety and minimize spillage during handling.
 - 9. The grout shall be dyed so that it is readily visible or detectable during television inspection.
 - 10. Mixing of the component materials must be compatible with the field operations and not require precise measurements of the ingredients by field personnel.

- 11. Cleanup must be done without an inordinate use of flammable or hazardous chemicals.
- 12. Residual sealing materials must be easily removable from the sewer line to prevent reduction or blockage of the sewer flow.
- 13. Must be approved by the Ohio EPA and comply with the recommendations outlined in the APWA published "Assessment of Sewer Sealants" under EPA Grant No. R806567-01 (Office of R & D, U.S. EPS, Cincinnati, Ohio 45268).
- B. <u>Chemical Grout Sealing Materials:</u>
 - 1. Chemical grout sealant shall be Avanti AV-100 acrylamide or approved equal.
- C. <u>Chemical Root Inhibitor:</u>
 - 1. Contractor shall add root inhibitor to the chemical grout mixture at a safe level of concentration having the ability to remain active within the grout for a minimum of 12 months.
 - 2. Contractor shall mix root inhibitor with the grout in accordance with the manufacturer's recommendations.
 - 3. The chemical root inhibitor shall be Norosac 50W dichlobenil or approved equal.

PART 5. CHEMICAL ROOT TREATMENT

- 5.01 INTENT: The intent of chemical root treatment is to kill tree roots in sanitary/storm sewer lines and to inhibit root regrowth without damaging the trees, environment, or the treatment plant.
- 5.02 GENERAL: The chemical root treatment material shall be EPA registered and labeled for use in sewer lines and acceptable to the Ohio EPA. The contractor shall submit a shop drawing of the material to be used in chemical root treatment with his bid or proposal. All materials and mixing/application procedures for chemical root treatment shall be consistent with the latest standards, requirements, and recommendations of the manufacturer of the chemical root treatment material used.

5.03 MATERIAL

- A. The active ingredient for killing roots shall be a non-systemic herbicide which will kill roots at low concentrations but will not permanently affect parts of the plants distant from the treated roots. The active ingredient must be spontaneously detoxified by natural chemical/biochemical processes following its use. The active ingredient shall not adversely affect the performance of wastewater treatment plants.
- B. The active ingredient for inhibiting root growth in sanitary sewers shall inhibit root cell growth on contract but shall not be transported so as to damage other portions of the plant. The material shall form a persistent chemical barrier suppressing the growth root tips. The material shall be sufficiently stable under conditions of use to provide protection for twelve months but shall be subject to decomposition in wastewater treatment plants without disturbing plant process.
- C. To improve transportation of the active ingredients into root tissues, the root treatment material shall contain emulsifiers to degrease root masses and remove fatty acids from root tissue and surfactants to convert an aqueous solution of the root treatment agent into volatile foam.

5.04 PRECAUTIONS AND RESPONSIBILITY

- A. The contractor's attention is directed to the safety requirements and precautions associated with the use of the root treatment material.
- B. The contractor is required to be knowledgeable of and in compliance with federal and state requirements relative to the root treatment material and its use. Compliance with federal and state law shall supersede compliance with the provisions of this contract.

- C. Mixing and application of the root treatment material shall be done under the supervision of a state-certified pesticide (herbicide) applicator as required law.
- D. The contractor shall use precautions for the protection of all persons, vegetation, animals, and property. The contractor is responsible for damage to private property and above-ground vegetation.
- 5.05 <u>PREPERATORY PROCEDURES</u>: Root tips are the principal growth areas and are the surfaces most effectively penetrated by root treatment chemicals. When the root tips are damaged or removed by sewer line cleaning, chemical treatment will be less effective. Consequently, no cleaning shall occur in lines prior to chemical root treatment unless extensive grease, root masses, or debris preclude proper application material.
- 5.06 <u>FLOW CONTROL</u>: Sewer service shall generally not be interrupted during root treatment. In situations where it is necessary to shut down upstream pumping stations or block/bypass upstream flows, the contractor shall coordinate his activities with the owner or his representative and do the work at night during periods of low flow (see Paragraph 1.08 -SEWER FLOW CONTROL).
- 5.07 <u>MIXING PROCEDURES</u>: All materials shall be delivered to the site in undamaged, unopened containers bearing the manufacturer's original label. Mixing of the root treatment material shall be done no more than 12 hours prior to use. The water used shall be clear and free of acid, alkali, oxidizing agents, oil, or other organic materials. Mixing water temperature shall be between 40 Degrees F and 80 Degrees F.
- 5.08 <u>APPLICATION PROCEDURES</u>: Where conditions permit, the volume of foam shall be sufficient to completely fill the air space above the flow, manhole to manhole. In all cases, the volume of foam delivered to the sewer line shall be sufficient to attach to and permeate all root masses. The foam shall be applied at sufficient pressure to penetrate a minimum of 5 feet into service connections.
- 5.09 <u>MANHOLES</u>: Manholes used to access a main line sewer section for treatment must be treated as part of the main line treatment and included as part of the main line section price per foot. The Contractor must fully cover the inside manhole wall with a 3-inch coating of pesticidal foam within 12 inches of the road/ground surface.
- 5.10 <u>DISCHARGES OF EFFLUENT:</u> Sanitary Sewers: The chemical root treatment material shall not be removed from the sewer and will travel to the treatment plant. The active ingredient for killing roots shall detoxify before reaching the treatment plant. The active ingredient for inhibiting root re-growth shall attach to pipe surfaces in the line being treated or en route to the treatment plant. The amount of chemical root treatment material reaching the plant shall be negligible and no special precautions are required.

5.11 ROOT REMOVAL

- A. Removal of roots is a separate operation and is not included in the scope of chemical root treatment (see PART 1, SEWER LINE CLEANING).
- B. Biological decomposition of dead root tissue occurs faster in septic conditions. Removal of dead roots, where required, should be postponed as long as possible after chemical root treatment to facilitate easier cleaning, but at a minimum no less than eight weeks after root treatment.
- C. Use of high-velocity jet machines and mechanical sewer cleaning tools will reduce the persistence of growth inhibitor ingredient and is advisable only in situations where the cleaning is thorough and necessary.
- 5.12 WARRANTY: The contractor shall provide to the owner or his representative a written guarantee that meets or exceeds any claims or warranties made by the contractor in published advertising. As a minimum, the contractor shall guarantee that, within a short interval of application, virtually all root tissue present in the sewer pipe will be dead or unable to sustain life.

PART 6. CURED-IN-PLACE PIPE (CIPP) FOR MAINLINE RENEWAL

6.01 INTENT: It is the intent of this specification to provide for the reconstruction of pipelines and conduits by the installation of a resin-impregnated flexible tube that is either inverted or pulled into the original pipeline/conduit and expanded to fit tightly against said pipeline by the use of water or air pressure. The resin system shall then be cured by elevating the temperature of the fluid (water/air) used for the inflation to a sufficient enough level for the initiators in the resin to effect a reaction. The finished pipe shall be such that when the thermosetting resin cures, the total wall thickness shall be a homogeneous and monolithic felt resin composite matrix that will be chemically resistant to withstand internal exposure to raw sewage, hydrogen sulfide gases and any elements common to sewer systems.

6.02 QUALIFICATIONS

A. <u>Product</u>

- 1. The system proposed (material, methods, workmanship) must be proven through previous successful installations to an extent and nature satisfactory to the Owner and the Engineer that is consistent with the size of the project being proposed. Since CIPP is intended to have a minimum 50-year designed life, only products deemed to have this performance will be accepted.
- 2. CIPP liner material shall be as manufactured by Inliner Technologies, LLC, Insituform, or approved equal.
- 3. All CIPP lining products shall comply with the latest versions of ASTM F1216 or ASTM F1743, including appendices.
- 4. The product shall have been successfully in service in an application similar to this for a minimum of 10 years.
- 5. For a product to be considered commercially proven, a minimum of 1,000,000 linear feet or 4,000 manhole to manhole sections of successful wastewater collection system installations in the U.S. must be documented to the satisfaction of the Owner and Engineer.
- 6. The CIPP liner Manufacturer shall be ISO certified.
- B. <u>Installation Contractor</u>
 - 1. The Contractor shall be an approved installer of the CIPP material as determined by the material Manufacturer.

- 2. The installation Contractor shall have installed within the United States a minimum of 100,000 lineal feet of the same product being represented by the bidder.
- 3. The actual installation superintendent shall have five years of installation experience of the same product being represented by the bidder.
- 4. Sewer rehabilitation products submitted for approval must provide third party test results supporting the structural performance and such data shall be satisfactory to the Owner and Engineer. Test samples shall be prepared so as to simulate installation methods and trauma of the product. No product will be approved without independent third party testing verification.
- 5. The Contractor shall be ISO certified. Failure to meet these minimum requirements shall render the bidder non-responsive for purposes of award.

6.03 STRUCTURAL REQUIREMENTS

- A. Each CIPP shall be designed to withstand internal and/or external loads as dictated by the site and pipe conditions. When not specified by the Engineer in the contract documents, the design thickness of the CIPP shall be arrived at using standard engineering methodology as found in ASTM F1216, Appendix X1. The long-term modulus shall not exceed 50 percent of the short-term value for the resin system and shall be verifiable through testing. The thickness calculations, signed and sealed by a registered professional engineer, shall be submitted to the Engineer prior to CIPP installation.
- B. The layers of the finished CIPP shall be uniformly bonded. It shall not be possible to separate any two layers with a probe or point of a knife blade so that the layers separate cleanly or such that the knife blade moves freely between the layers. If separation of the layers occurs during testing of the field samples, new samples will be cut from the work. Any reoccurrence may be cause for rejection of the work.
- C. The cured liner shall meet the following minimum strength:

STM ethod	Polyester System	Filled Polyester System	Vinyl Ester Svstem
ethod	System	System	System
			5,50011
D790	4,500 psi	4,500 psi	5,000 psi
D790	250,000 psi	400,000 psi	300,000 psi
D790	124,000 psi	200,000 psi	150,000 psi
D638	3,000 psi	3,000 psi	4,000 psi
	D790 D790	D790 250,000 psi D790 124,000 psi	D790250,000 psi400,000 psiD790124,000 psi200,000 psi

MINIMUM PHYSICAL PROPERTIES

(1) For pressure piping applications only

6.04 MATERIALS

A. <u>Liner Tube</u>

- 1. The tube shall consist of one or more layers of a flexible needled felt or an equivalent nonwoven or woven material, or a combination of nonwoven and woven materials, capable of carrying resin, withstanding installation pressures and curing temperatures. The tub should be compatible with the resin system to be used on this project. The material should be able to stretch to fit irregular pipe sections and negotiate bends. Projected changes in groundwater level, temperature and other loading factors shall cause no significant changes in the service characteristics or service life of the CIPP.
- 2. The liner shall be fabricated from materials which when cured, will be chemically resistant to reagents as defined in ASTM F1216, ASTM F1743, and ASTM D543.
- 3. The tube should be fabricated under controlled conditions to a size that, when installed, will tightly fit the internal circumference and the length of the original conduit. Allowances should be made for the longitudinal and circumferential stretching that occurs during placement of the tube. Maximum stretching allowances shall be as defined in ASTM F1216 or ASTM F1743. The Contractor shall verify the lengths in the field before cutting the liner to length. Individual liners can be made over one or more manhole to manhole sections.
- 4. The tube shall be uniform in thickness and when subjected to the installation pressures shall meet or exceed the designed wall thickness.
- 5. Any plastic film applied to the tube on what will become the interior wall of the finished CIPP shall be compatible with the resin system used, translucent enough that the resin is clearly visible, and shall be firmly bonded to the felt material.
- 6. At time of manufacture, each lot of liner shall be inspected and certified to be free of defects. The tube shall be marked for distance at regular intervals along its entire length, not to exceed five feet. Such markings shall also include the Manufacturer's name or identifying symbol.
- 7. The reinforcing material of the liner shall be of a needle interlocked terylene felt formed into sheets of required thickness or other material approved by the Manufacturer.
- 8. Liners may be made of single or multiple layer construction where any layer must not be less than 1.5mm thick. A suitable mechanical strengthener membrane or strip may be placed in between layers where required to control longitudinal stretching.

B. <u>Resin Components</u>

- 1. The resin system shall be a corrosion resistant polyester, vinyl ester, or epoxy and catalyst system that when properly cured within the tube composite meets the minimum requirements given herein or those that are to be utilized in the design of the CIPP for this project.
- 2. The resin used shall not contain non-strength enhancing fillers.
- 3. The Contractor shall submit the resin characteristics, including filler identifications, to the Owner for approval prior to lining activities.

6.05 EXECUTION

- A. <u>General</u>
 - 1. The Contractor shall deliver the liner to the site and provide all equipment required to insert and cure the liner within the host pipe. The Contractor shall designate a location where the tube will be vacuum impregnated prior to installation. The Contractor shall notify the Engineer at least 48 hours prior to wet out to allow the Engineer to observe the materials and wet out procedure. All procedures to prepare the liner for installation shall be in strict accordance with the Manufacturer's recommendations.
 - The liner shall be impregnated with resin not more than 120 hours before the time of installation and stored out of direct sunlight at a temperature of less than 70° F.

B. <u>Notification and Preparation</u>

- 1. The Contractor shall notify all residents affected by this construction at least 48 hours prior to any service disruption affecting their service connection. The Contractor shall make every effort to maintain service usage throughout the duration of the project.
- 2. The Contractor shall perform cleaning, videotaping, and inspection prior to installation of the CIPP in accordance with the SEWER AND MANHOLE REHABILITATION specifications. The Contractor, when required, shall remove all debris from within the pipe that will interfere with the installation of the CIPP. The Contractor shall provide a dumpsite for such debris removed during the cleaning operations.
- 3. It shall be the responsibility of the Contractor to notify the Owner of line obstructions, offset joints or collapsed pipe that will prevent the insertion of the

tube or significantly reduce the capacity of the sewer. The Owner shall not cause damage to the lateral or service beyond the inside face of the main sewer.

4. Protruding laterals or services shall be trimmed flush with the inside of the main sewer wall prior to lining. Trimming shall not cause damage to the lateral or service beyond the inside face of the main sewer.

C. <u>Bypass Pumping</u>

- 1. The Contractor, when required, shall provide for the flow of sewage around the section or sections of pipe designated for repair. When possible, the bypass shall be made by plugging the line at an existing upstream manhole and pumping the flow into a downstream manhole or adjacent system. The pump and bypass lines shall be of adequate capacity and size to handle the flow. The Contractor shall furnish all necessary pumping equipment, conduit, etc. to adequately, safely, and environmentally divert sewage flow around the work.
- 2. The Contractor shall submit a general bypass plan.

D. <u>Television Inspection</u>

- 1. Pre-lining television inspection shall be completed in all lines to be lined, in accordance with PART 2, TELEVISION INSPECTION, after the line has been cleaned and is ready to be lined.
- 2. Post-lining television inspection shall be completed in all lines, in accordance with PART 2, TELEVISION INSPECTION, after the line is fully cured and laterals are reinstated.
- 3. Both a pre-lining and post-lining video and video reports shall be submitted to the Owner for approval. The videotapes shall be clearly and properly labeled.
- E. <u>Installation</u>
 - 1. The CIPP shall be installed in accordance with the practices given in ASTM F1216 (for direct inversion installations) or ASTM F1743 (for pulled-in-place installations). The quantity of resin used for the tube's impregnation shall be sufficient to fill the volume of air voids in the tube with additional allowances being made for polymerization shrinkage and the loss of any resin through cracks and irregularities in the original pipe wall. A vacuum impregnation process shall be used in conjunction with a roller system to achieve a uniform distribution of the resin throughout the tube.
 - 2. A scaffold or elevation platform shall be erected at the access point. The resinimpregnated tube shall be installed into the host pipe by methods approved by

the Manufacturer and proven through previous successful installations. The insertion method shall not cause abrasion or scuffing of the tube and mold it against the walls of the host pipe. There will be no use of sewage in place of clean water for insertion of the tube, or for the curing of the liner.

3. The tube is to be installed in a controlled manner at a rate sufficient to prevent damage to the tube. The installation rate shall not exceed 32 feet per minute. The installation head shall be such that, allowing for minor impact, at no time shall the hoop tension in the felt exceed 500 psi or the hoop stress in the polyurethane membrane exceed 8,000 psi.

F. <u>Curing</u>

- 1. After tube installation is complete the Contractor shall supply a suitable heat source and recirculation equipment. The equipment shall be capable of delivering hot water or steam throughout the section to uniformly raise the temperature above the temperature required to affect a cure of the resin. This temperature shall be determined be the resin/catalyst system employed.
- 2. The heat source shall be fitted with suitable monitors to gauge the temperature of the incoming and outgoing heat supply. Thermocouples shall be placed between the tube of the host pipe in downstream manholes at or near the bottom to determine the liner temperature during cure. Water or air temperature in the pipe during the cure period shall be as recommended by the resin Manufacturer.
- 3. Initial cure shall be deemed to be completed when inspection of the exposed portions of cured pipe appear to be hard and sound and the remote temperature sensor indicates that the temperature is of a magnitude to realize an exotherm. The cure period shall be of a duration recommended by the resin Manufacturer, as modified for the installation process, during which time the recirculation of the heat and cycling of the heat exchanger to maintain the temperature continues. The heat source shall be shut down during the post cure.
- G. <u>Cool Down:</u> Cool down may be accomplished by the introduction of cool water or air into the installation standpipe to replace water or pressurized air being relieved from the manhole in accordance with the manufacturer recommendations. The Contractor shall cool the hardened pipe to a temperature below 100° F before relieving the static head. A minimum period of post cure shall be maintained under a static head to provide a minimum hoop tension on the tube felt. Care shall be taken in the release of the static head so that a vacuum will not be developed.
- H. <u>Finish</u>

- 1. The finished lining shall be continuous over the entire length of an insertion run between two manholes and be as free as commercially practical from visual defects such as foreign inclusions, dry spots, pinholes, and delamination. The lining shall be homogeneous, impervious, and free of any leakage from the surrounding ground to the inside of the lined pipe.
- 2. Where liner is installed through a manhole uninterrupted, the invert shall be maintained smooth through the manhole, with approximately the bottom half of the liner continuous through the manhole. The invert of the manhole shall be shaped and grouted as necessary to support the liner. The cost of this work shall be included in the CIPP unit price.
- 3. During the warranty period, any defects which will affect the integrity or strength of the liner, collect solids, or reduce hydraulic flow capabilities of the product shall be repaired at the Contractor's expense in a manner mutually agreed upon by the Owner and the Contractor.

I. <u>Reinstate Lateral and Services</u>

- 1. Accurate location of the lateral and service connections shall be made by inspection of the pre-installation video.
- 2. After the liner has been installed, all existing active lateral sewers and services shall be reinstated unless otherwise indicated by the Owner or on the plans. The reinstatement of laterals and services shall be done without excavation unless otherwise specified by the Engineer. Reinstatement of laterals and services will be accomplished from the interior of the pipeline by means of television camera directed cutting devise or by direct man entry when feasible. All cut lateral and service connections shall be free of burrs, frayed edges, or any restriction preventing free flow of wastewater. Laterals shall be reinstated to a minimum of 90% of their original diameter and no more than 100% of their minimum diameter. The CIPP liner shall be tightly sealed at the cut openings with no gaps. All coupons cut from the liner as a result of reopening the lateral connections shall be retrieved from the sewer and accounted for by the Contractor.
- 3. After the service laterals have been reinstated, the service lateral connections shall be grout sealed in accordance with these specifications.
- J. <u>Quality Assurance Procedures</u>
 - 1. For every two thousand five hundred (2,500) lineal feet of liner installed, two (2) flat plate samples shall be processed and tested. The flat plate samples shall be taken directly from the wet out tube, clamped between flat plates, and cured in

the down tube. As an alternative, restrained end samples may be used for pipes eight to 18 inches in diameter.

- 2. Testing shall be completed by an accredited, independent laboratory at the Contractor's expense. The Contractor shall submit the chosen laboratory with appropriate accreditation documentation for approval by the Owner prior testing. Testing results shall be provided to the Owner within seven (7) days of receipt.
- 3. Samples shall be conditioned and prepared in accordance with ASTM D618 and ASTM D5813 to ensure consistency in laboratory results.
- 4. Thickness shall be measured in accordance with ASTM D5813, latest version, with only the structural portion of the CIPP being measured.
- 5. Flexural testing shall be in accordance with ASTM D790, latest version, with only the structural portion of the CIPP being measured.
- 6. For pressure application, tensile testing shall be in accordance with ASTM D638, latest version, with only the structural portion of the CIPP being tested.

6.06 ONE-YEAR CORRECTION PERIOD

- A. During the one-year correction period, any defects which affect the integrity or strength of the pipe shall be repaired at the Contractor's expense in a manner mutually agreed upon by the Owner and the Contractor.
- B. Prior to the expiration of the one-year period after the date of substantial completion, but no sooner than six months after the date of substantial completion, the sewer pipes containing the repair work shall be televised by the Contractor. The Owner or Owner's representative shall be present at the time of the television inspection.
- C. Two copies of the television inspection video and reports shall be turned over to the Owner immediately. Any defects or problems created by the lining work that affect or could affect the proper operation and maintenance of the sewer shall be repaired.
- D. Payment for videotaping the repaired sewer lines shall be included as part of the CIPP work and no separate payment will be made.

PART 7. LATERAL CONNECTION & LATERAL PIPE REHABILITATION

7.01 INTENT

- A. It is the intent of this specification to provide for the reconstruction of a sewer service lateral and a sewer service lateral connection without any excavation.
- B. <u>Service Lateral Reconstruction:</u> The reconstruction will be accomplished using balanced bi-directional woven fiberglass of length according to the measurements and a thermoset resin with appropriate physical and chemical properties for the application. The woven fiberglass is impregnated with the thermoset resin layer by layer with a minimum of two layers. Once the wetting is completed the liner is rolled on the thermo mandrel. A rope is strung through the lateral from a clean out to the mainline and downstream manhole. The thermo mandrel is then pulled up the lateral to the cleanout located outside the building. Once it is correctly positioned, the thermo mandrel is inflated with steam to activate the resin and harden the liner. Once cured and cooled, the thermo mandrel is removed and the liner is smooth, watertight, wrinkle free and tightly fitted to the original host pipe.
- C. <u>Lateral-Main-Connection (LMC) Reconstruction</u>: The reconstruction will be accomplished using balanced bi-directional woven fiberglass of sewer diameter and size and connection type (wye or tee) with a thermoset resin with appropriate physical and chemical properties for the application. The woven fiberglass is impregnated with the thermoset resin layer by layer with a minimum of two layers. Once the wetting is completed the liner is rolled on the thermo mandrel. A rope is strung through the lateral from a clean out to the mainline and downstream manhole while a second rope is strung from manhole to manhole. The thermo mandrel is pulled into the correct repair position which is verified by a camera launched down the lateral from a cleanout and a camera in the mainline. Once it is correctly positioned, the thermo mandrel is inflated with steam to activate the resin and harden the LMC. Once cured and cooled, the thermo mandrel is removed and the LMC is smooth, watertight, wrinkle free and tightly fitted to the original host pipes and connection.

7.02 QUALIFICATIONS

- A. <u>Product</u>
 - 1. The system proposed (material, methods, workmanship) must be proven through previous successful installations to an extent and nature satisfactory to the Owner and the Engineer that is consistent with the size of the project being proposed. Since the connection and pipe rehabilitation are intended to have a minimum 50-

year designed life, only products deemed to have this performance will be accepted.

- 2. The liner material shall be as manufactured by FORMADRAIN, Inc. or approved equal.
- 3. All lining products shall comply with the latest versions of ASTM F1216 or ASTM F1743, including appendices.
- 4. The product shall have been successfully in service in an application similar to this for a minimum of 10 years.
- 5. For a product to be considered commercially proven, a minimum of 1,000 lateral pipes and lateral connections of successful wastewater collection system installations in North America must be documented to the satisfaction of the Owner and Engineer.

B. Installation Contractor

- 1. The Contractor shall be an approved installer of the CIPP material as determined by the material Manufacturer.
- 2. The installation Contractor shall have installed within the United States a minimum of 200 laterals lined with the same product being represented the bidder.
- 3. The actual installation superintendent shall have two years of installation experience of the same product being represented by the bidder.

7.03 MATERIAL

- A. The liner consists of two or more layers of bi-directional woven fiberglass impregnated with thermoset resin and a 4 mil polyethylene water barrier on the outside.
- B. General physical properties of the fiberglass:
 - 1. Tensile load = 3.4x103 Mpa (493,000 psi)
 - 2. Tensile Modulus = 72x103 Mpa (10,442,000 psi)
- C. General Physical properties of the resin:

	ASTM		
Property	Test Method		
Tensile Load	D638	60 Mpa	8,700 psi
Tensile Modulus	D638	3.3x10 ³ Mpa	478,600 psi

Flexural Load	D790	100 Mpa	14,500 psi
Flexural Modulus	D790	2.1x10 ³ Mpa	304,500 psi

D. Physical properties of composite material:

	ASTM		
Property	Test Method		
Tensile Load	D638	160 Mpa	23,200 psi
Tensile Modulus	D638	8.0 Gpa	1,160,000 psi
Flexural Load	D790	160 Mpa	23,200 psi
Flexural Modulus (E _s)	D790	9.0 Gpa	1,305,000 psi
Flexural Modulus (E _L)	D2990	4.3 Gpa	623,500 psi

E. Physical properties of the lateral tube portion of the LMC composite material:

	ASTM		
Property	Test Method		
Tensile Load	D638	60 Mpa	8,700 psi
Tensile Modulus	D638	4.8 Gpa	696,000 psi
Flexural Load	D790	160 Mpa	23,200 psi
Flexural Modulus (E _s)	D790	4.45 Gpa	645,250 psi

- F. <u>Wall Thickness:</u> The thickness of the material shall be in accordance with ASTM F 1216 Appendix X1.
- G. <u>Chemical Resistance:</u> The composite liner material shall be resistant to elements common in a sewer line including hydrogen sulfide as outlined in ASTM F 1216.

7.04 EXECUTION

- A. <u>General:</u> All installation procedures shall be in strict accordance with manufacturer's recommendations.
- B. <u>Preparation of the conduits</u>
 - 1. The process requires a cleanout outside the building, which must be installed if not present.
 - 2. All roots, solids, grease, and other materials must be removed from the hole length of the lateral, the lateral connection and the mainline immediately adjacent the lateral connection.

3. The lateral must be televised with precise measurements recorded and provided to the manufacturer so the liner can be fabricated.

C. <u>Preparation of the lateral liner</u>

- 1. The preparation surface (floor or otherwise) must be clean, smooth without burrs, bumps or holes.
- 2. The thermo mandrel must be assembled according to length for each application and must be tested prior to the first use. It must be visually inspected prior to each use.
- 3. The fiberglass is cut to match the required length of the repair and the resin is mixed in proper proportions.
- 4. The fiberglass is impregnated with resin and the liner is rolled onto the thermo mandrel and brought to the site.
- D. <u>Insertion of the lateral liner</u>
 - 1. A rope is strung down the lateral from the cleanout to the downstream manhole so that the thermo mandrel can be attached and pulled through the lateral. It is pulled down the lateral from the cleanout by means of a winch inserted in the downstream manhole.
 - 2. A televising camera is inserted down the mainline to ensure the lateral is correctly positioned.
- E. <u>Preparation of the LMC</u>
 - 1. The surface to prepare the liner (preferably a table) must be clean, smooth without burrs, bumps, or holes.
 - 2. The thermo mandrel is assembled according to the repair diameters and connection type (wye or tee). The thermo mandrel must be tested before the first use and visually inspected before each use.
 - 3. The fiberglass is selected according to the main diameter, lateral diameter and connection type. The repair kit shall be a minimum of three feet long in the main and eighteen inches long in the lateral.

- 4. After the resin is mixed in the proper proportions, the fiberglass is impregnated and the LMC repair is brought to the site.
- F. <u>Insertion of the LMC</u>
 - 1. A rope is strung down the lateral from the cleanout to the downstream manhole while another rope is strung from manhole to manhole so that the thermo mandrel can be attached and pulled into place at the lateral connection.
 - 2. A televising camera is inserted down the lateral and in the mainline to ensure the lateral is correctly positioned.
- G. <u>Curing the liner</u>
 - 1. The liners shall be inflated with steam to cure the liner at the pressure and duration recommended by the manufacturer.
 - 2. The steam shall be released and air blown through the thermo mandrel for cool down as recommended by the manufacture prior to removing the thermo mandrel.
- H. <u>Video Inspection</u>
 - 1. The Contractor shall cameral the lateral liner and/or LMC connection to ensure the integrity of the new seamless watertight pipe.
 - 2. Two copies of the post lining video and video reports shall be immediately delivered to the owner.

PART 8. MANHOLE REHABILITATION

- 8.01 INTENT The intent of this section is the elimination of infiltration/flow into manholes that are otherwise structurally sound.
- 8.02 GENERAL: Sewer manhole rehabilitation includes the following:
 - A. Structural sealing of the manhole.
 - B. The sealing of the manhole chimney, including the manhole frame joint area.
 - C. The sealing of precast manhole barrel joints.
 - D. The sealing of manhole covers by installing a manhole insert.
 - E. Repair of reconstruction of the invert and bench area.
 - F. Sealing of the entire manhole as part of manhole lining.
 - G. The inspection and testing of the various types of work to insure compliance.
- 8.03 MANHOLE STRUCTURE SEALING: Manhole structure sealing includes the sealing of the manhole walls, cone and chimney. This type of sealing shall be done during high groundwater conditions, unless the points of leakage have been previously identified.
 - A. <u>Chemical Grout Sealing:</u>
 - 1. Equipment: The basic equipment shall consist of chemical pumps, chemical containers, injection packers, hoses, valves, and all necessary equipment and tools required to seal manholes. The chemical injection pumps shall be equipped with pressure meters that will provide for monitoring pressure during the injection of the chemical sealants. When necessary, liquid bypass lines equipped with pressure-regulating bypass valves will be incorporated into the pumping system.
 - 2. Sealing Procedures: At each point of leakage within the manhole structure a hole shall be carefully drilled from within the manhole and shall extend through the entire manhole wall. In cases where there are multiple leaks around the circumference of the manhole, fewer holes may be drilled, providing all leakage is stopped from these holes. Grout ports or sealant injection devices shall be placed in these previously drilled holes in such a way as to provide a watertight seal between the holes and the injection device. A hose or hoses shall be attached to the injection device from an injection pump. Chemical sealing material as specified shall then be pumped through the hose until material refusal is recorded

on the pressure gage mounted on the pumping unit or a predetermined quantity of sealant has been injected.

- 3. Care shall be taken during the pumping operation to insure pressures do not develop and cause damage to the manhole structure. Upon completion of the injection, the ports shall be removed and the remaining hole filled with mortar and troweled flush with the surface of the manhole walls or other surfaces. The mortar used shall be a non-shrink patching mortar conforming to the following requirements:
- 4. A premixed non-shrink cement-based patching material consisting of hydraulic cement, graded silica aggregates, special plasticizing and accelerating agents, which have been formulated for vertical or overhead use. It shall not contain chlorides, gypsums, plasters, iron particles, aluminum powder, or gas-forming agents or promote the corrosion of steel it may come in contact with. Set time (ASTM C-191) shall be less than 30 minutes. One hour compressive strength (ASTM C-109) shall be a minimum of 200 psi and the ultimate compressive strengths (ASTM-109) shall be a minimum 5000 psi. Bond strengths (ASTM C-882-Modified) shall be a minimum of 1700 psi.
- 5. Grout Curtain Sealing Procedure (Brick and Block Manholes): When a chemical grout curtain is required around a brick or block manhole, the procedure may involve the use of chemical grout in combination with a two-coat cementitious coating.
 - a. Surface Preparation: The manhole surface shall be cleaned, patched, and the infiltration stopped as follows:
 - 1) Cleaning: All concrete and masonry surfaces to be rehabilitated must be clean. All grease, oil, laitance, coatings, loose brick, mortar, unsound concrete, and other foreign materials must be completely removed. Water blasting utilizing proper nozzles shall be the primary method of cleaning; however, other methods such as wet or dry sandblasting, acid wash, concrete cleaners, degreasers, or mechanical means may be required to properly clean the surface. All surfaces on which these other methods are used shall be thoroughly rinsed, scrubbed, and neutralized to remove cleaning agents and their reactant products.
 - 2) Stopping Infiltration: After surface preparation and prior to the application of mortars and coatings, infiltration shall either be stopped by plugging, chemical grout sealing, or channeled through "bleed" pipe installation at the bottom of the manhole.
 - 3) Patching: All large holes or voids around steps, joints or pipes, all spalled areas and all holes caused by missing or cracked brick shall be patched and

all missing mortar re-pointed using a non-shrink patching mortar. All cracked or disintegrated material shall be removed from the area to be patched or re-pointed, exposing a sound sub-base. All cracks not subject to movement and greater than 1/16 inch in width shall be routed out to minimum width and depth of $\frac{1}{2}$ inch and patched with non-shrink patching mortar.

- b. Set grout ports or injectors: Holes shall be drilled and grout ports or chemical sealant injection devices installed to insure proper grouting of the soil outside of the manhole. Some additional ports may be placed after the application of the waterproof coating.
- c. Coating: A cementitious waterproof coating shall be applied before any chemical grout is pumped. These coats will provide a dam to optimize the grout sealing application and shall extend from the manhole base to the bottom of the frame seal. The coatings shall conform to the following:
 - 1) A waterproof cementitious coating conforming to the requirements of this specification shall be applied to all surfaces, from and including the manhole bench to the bottom of the frame seal.
 - 2) The material shall be applied in accordance with the manufacturer's recommendations to the surfaces that are free of cracks and voids wider than 1/16 inch.
 - 3) A minimum of two coats (of contrasting colors).
- d. Chemical Sealing: Chemical grout shall be injected into the soil surrounding the manhole as needed for complete sealing, using the same equipment and procedures as required earlier in this section. Grouts injected into near-surface and chimney-corbel areas may require the addition of shrink control agents, gel reinforcing agents and accelerators.

Sealing Material	Suggested Additive
Acrylamide gel	Ethylene Glycol
Acrylic gel	Ethylene Glycol
Urethane gel	Gel Reinforcing Agent

8.04 MANHOLE FRAME AND CHIMNEY SEALING: Manhole frame sealing includes the sealing of the frame joint area and the chimney above the cone of the manhole with either a manufactured or applied internal or external flexible seal. The seal shall be designed to prevent leakage of water into the manhole through these areas throughout a 25-year design life. The seal shall remain flexible; allowing repeated vertical movements of the frame due to frost lift, ground movement, or other causes of up to 2 inches and or repeated horizontal movement of the frame due to thermal movement of pavement or other causes of up to ¹/₂ inch.

- A. Mechanical seal comprised of a rubber sleeve and extension.
 - 1. The flexible rubber sleeve and extension shall be molded or extruded from a high grade rubber compound, such as polyisoprene or EDPM, conforming to the material requirements of ASTM C-923.
 - a. The sleeve shall be corrugated with a minimum unexpanded vertical height of 8 inches or 10 inches and a minimum thickness of 3/16 inches. The upper and lower sections of the sleeve that compress against the casting and manhole chimney or cone shall have an expansion band recess capable of restraining the band during expansion and after installation.
 - b. The top section of the extension shall have a minimum thickness of 3/32 inches and shall be shaped to fit behind the sealing area of the rubber sleeve under the expansion band recess area. The remainder of the extension shall meet the material requirements of ASTM C-923. The bottom section of the extension shall contain an expansion band recess matching the rubber sleeve.
 - 2. The expansion bands used to compress the sleeve against the manhole shall be integrally formed from 16 gauge stainless steel conforming to ASTM C-923, Type 304 or 316, with no permanent welded attachments and shall have a minimum width of 1 inch and a maximum width of 1-3/8 inches.
 - a. The expansion bands shall have a minimum adjustment range of 2-1/2 diameter inches. Any tool used to expand the band shall have the capacity to develop the necessary force to provide compression of the rubber sleeve and a watertight seal. Once tight, the band shall remain permanently held in this expanded position with a latching mechanism that engages in one of the slots in the overlapping end of the band.
 - 3. Acceptable manufacturers include NPC, Inc. or approved equal.
 - 4. Installation
 - a. The Contractor shall be responsible for field measuring each manhole to determine the information required for ordering the proper size or quantities of rehabilitation materials. This information is required to determine the proper size rubber sleeve, the need for and size of any extensions and the size and number of expansion bands required to complete the installation.
 - b. Clean manhole walls and bench with a minimum 1,500 psi water spray to remove contaminants, dirt, debris and other foreign matter.
 - c. The contact surfaces for the sleeve and extensions shall be clean, reasonably smooth and circular, and free of excessive voids. If masonry surface is rough or irregular and will not provide an effective seal, it shall be smoothed with mortar.

- d. A bead of butyl rubber caulk shall be applied to the bottom-sealing surface of the seal or extension to fill minor irregularities in the masonry surface. After the rubber sleeve has been placed in the proper position, the bands are positioned and individually tightened or expanded as required to provide a watertight seal.
- e. When the extension is used, its top shall be positioned in the bottom band recess prior to installing the bottom band. The bands are then positioned in the extension and tightened or expanded as required to provide a watertight seal. Installation procedures shall be in accordance with the manufacturer's instructions.

B. <u>Coating system seals</u>

- 1. The coating system shall be designed specifically for use in sewer system structures to provide and abrasion and corrosion resistant protective lining that can withstand severe biogenic corrosion caused by the hydrogen sulfide (H2S) found in wastewater environments.
- 2. The coating system shall be a flexible calcium aluminate cementitious based, urethane based, or epoxy based material.
- 3. Acceptable manufactures include SEPERCOAT by Kerneos, Inc., Parsonpoxy FP by Parson Environmental, Inc., Sauereisen, Sewer-Cote by Sherman Williams, Sprayshield by Sprayroq, or approved equal.
- 4. Installation
 - a. Apply coating system in accordance with the manufacturer's instructions and with equipment recommended by manufacturer.
 - b. Clean manhole walls and bench with a minimum 1,500 psi water spray to remove contaminants, dirt, debris and other foreign matter.
 - c. Mix coating system components in accordance with manufacturer's recommendations.
 - d. Spray apply liner material in 1 or more passes to form a structurally enhanced monolithic liner.
 - e. Finish work shall consist of troweling surface of sprayed liner material to relatively smooth finish and applying a brush finish to the troweled surface.
 - f. Cure materials in accordance with the manufacturer's instructions.
- C. Realignment of manhole frame castings

- 1. All manhole frame castings that are misaligned from the chimney or cone/corbel by 3 inches or more shall be excavated and realigned. The Contractor shall thoroughly clean all frame castings before reinstallation.
- 2. The frame casting shall be set in a bed of cementitious grout mixed to a mortar or "plastic" consistency.
- 3. The frame casting shall be set so that the top of the cover is flush with the existing pavement or ground surface.
- 8.05 PRE-CAST MANHOLE BARREL JOINT SEALING: Internal manhole joint seals shall consist of a flexible rubber sleeve and stainless steel expansion bands or a cementitious, urethane based, or epoxy based coating system conforming to the following requirements.
 - A. Mechanical seals with a rubber sleeve and sleeve with extension flap.
 - 1. The flexible rubber sleeve and sleeve with extension flap shall be molded or extruded from a high grade rubber compound such as polyisoprene or EPDM conforming to the material requirements of ASTM C-923.
 - 2. The sleeve shall have a minimum width of 7-1/2 inches or 10-1/2 inches and shall have a minimum thickness of 5/16 inches. Both end sections of the sleeve shall have an expansion band recess capable of restraining the band during expansion and after installation. The sleeve with extension flap shall have a minimum width of 10 inches and a minimum thickness of 3/32 inches in the flap section and 5/16 inches in the remainder of the sleeve.
 - 3. The expansion bands used to compress the sleeve against the manhole wall shall be formed from 14 gauge stainless steel conforming to ASTM C-923, Type 304 or 316, and shall have a minimum width of 1-15/16 inches.
 - 4. The diameter of the band shall be increased by tightening the bolts on the assembly which shall have the capability of producing 3,600 pounds when tightened to 75 foot-pounds. Depending on the diameter of the manhole, there shall be between one and four assemblies on each expansion band to ensure an even distribution of compressive force on the rubber sleeve. The assembly shall be cast from 316 stainless steel and the bolts used in the assembly shall be 304 stainless steel.
 - 5. Approved manufacturers include NPC, Inc. or approved equal.
 - 6. Installation
 - a. The Contractor shall be responsible for field measuring each manhole to determine the information required for ordering the proper size or quantities of

rehabilitation materials. This information is required to determine the proper size rubber sleeve, the need for and size of any extensions and the size and number of expansion bands required to complete the installation.

- b. Clean manhole walls and bench with a minimum 1,500 psi water spray to remove contaminants, dirt, debris and other foreign matter.
- c. The contact surfaces for the sleeve and extensions shall be clean, reasonably smooth and circular, and free of excessive voids. If masonry surface is rough or irregular and will not provide an effective seal, it shall be smoothed with mortar.
- d. A bead of butyl rubber caulk shall be applied to the bottom-sealing surface of the seal or extension to fill minor irregularities in the masonry surface. After the rubber sleeve has been placed in the proper position, the bands are positioned and individually tightened or expanded as required to provide a watertight seal.

B. <u>Coating system seals</u>

- 1. The coating system shall be designed specifically for use in sewer system structures to provide and abrasion and corrosion resistant protective lining that can withstand severe biogenic corrosion caused by the hydrogen sulfide (H2S) found in wastewater environments.
- 2. The coating system shall be a flexible calcium aluminate cementitious based, urethane based, or epoxy based material.
- 3. The coating system shall be applied to the manhole joint and six inches above and below the joint for the full circumference of the manhole.
- 4. Acceptable manufactures include SEPERCOAT by Kerneos, Inc., Parsonpoxy FP by Parson Environmental, Inc., Sauereisen, Sewer-Cote by Sherman Williams, Sprayshield by Sprayroq, or approved equal.
- 5. Installation
 - a. Apply coating system in accordance with the manufacturer's instructions and with equipment recommended by manufacturer.
 - b. Clean manhole walls and bench with a minimum 1,500 psi water spray to remove contaminants, dirt, debris and other foreign matter.
 - c. Mix coating system components in accordance with manufacturer's recommendations.
 - d. Spray apply liner material in 1 or more passes to form a structurally enhanced monolithic liner.
 - e. Finish work shall consist of troweling surface of sprayed liner material to relatively smooth finish and applying a brush finish to the troweled surface.

f. Cure materials in accordance with the manufacturer's instructions.

8.06 MANHOLE DISH INSERTS:

- A. The manhole dish inserts shall be made of ultra high density polyethylene copolymer material that meets ASTM specification D 1248, Class A with a minimum impact brittleness temperature of -180 degrees F.
- B. The dish insert shall be a minimum of 0.187 inches thick, have a polypropylene lift strap and have a vent hole in the side of the bowl.
- C. Approved manufacturers include No Flow In Flow, Parsons Environmental, or approved equal.
- D. The flexible rubber sleeve and sleeve with extension flap shall be molded or extruded from a high grade rubber compound such as polyisoprene or EPDM conforming to the material requirements of ASTM C-923.

8.07 INVERT AND BENCH REPAIR:

- A. Repair inverts with visible damage, where infiltration is present, or when vacuum testing is specified.
- B. Remove loose and unsound materials and wash walls after surface preparation is complete.
- C. Block flow through manhole and thoroughly clean invert.
- D. Repair bench, invert, or service line using patching material applied in accordance with manufacturer's instructions.
- E. Uniformly trowel patching material onto damaged invert at a minimum thickness of 1/2 inches at the invert and extend out onto the bench of manhole to sufficiently tie into the liner material.
- F. Ensure the finished invert surfaces are smooth and free of ridges.
- G. Reestablish flow in manhole after a minimum of 30 minutes after application of patching material.

8.08 MANHOLE LINING:

A. Manhole rehabilitation to stop inflow, infiltration, and exfiltration; repair voids; restore structural integrity; and provide protection against corrosion. A monolithic, fiber-reinforced, structurally enhanced, cemetitious-based or polyurethane based

liner material is spray applied to the chimney, cone, wall and bench surfaces of the manhole.

- B. The work shall meet the following requirements unless otherwise specified:
 - 1. ASTM C 78 Flexural Strength of Concrete (Using Simple Beam With Third-Point Loading).
 - 2. ASTM C 94 Ready-Mixed Concrete.
 - 3. ASTM C 109 Compressive Strength of Hydraulic Cement Mortars (Using 2in. or 50-mm Cube Specimens).
 - 4. ASTM C 234 Comparing Concretes on the Basis of the Bond Developed with Reinforcing Steel.
 - 5. ASTM C 267 Chemical Resistance of Mortars, Grouts, and Monolithic Surfacings.
 - 6. ASTM C 321 Bond Strength of Chemical-Resistant Mortars.
 - 7. ASTM C 496 Splitting Tensile Strength of Cylindrical Concrete Specimens.
 - 8. ASTM C 596 Drying Shrinkage of Mortar Containing Portland Cement.
 - 9. ASTM C 666 Resistance of Concrete to Rapid Freezing and Thawing.
 - 10. ASTM C 827 Change in Height at Early Ages of Cylindrical Specimens from Cementitious Mixtures.
 - 11. ASTM C 952 Bond Strength of Mortar to Masonry Units.
 - 12. ASTM C 1244 Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test.
- C. <u>Submittals</u>
 - 1. Contractor shall submit manufacturer's product data including physical properties, surface preparation requirements, preparation, application, curing, and field quality control recommendations.
 - 2. Contractor shall submit a list of a minimum of 10 manhole rehabilitation projects completed during past 3 years for which the product was used.
 - 3. Contractor shall submit qualifications of applicator including:

- 4. Certification stating applicator is factory trained and approved by manufacturer in application of the specified products.
- 5. List of recently completed manhole rehabilitation, projects, including project name and location, names of owner and engineer, and description of products used, substrates, and application procedures
- D. All materials shall be delivered to the site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- E. All materials shall be stored and handled in accordance with manufacturer's instructions and shall be stored in a cool dry environment in original sealed containers until ready for use.
- F. <u>Environmental conditions</u>
 - 1. Do not apply materials if ambient temperature is below 40 degrees F.
 - 2. Do not apply materials to frozen surfaces or if freezing is expected within substrate within 24 hours after application.
 - 3. Do not apply materials when temperature is above 90 degrees F.
 - 4. Temperature of mixing water shall not exceed 80 degrees F.
- G. <u>Materials</u>
 - 1. Materials shall be from a single manufacturer and compatible with substrate and each other.
 - 2. Patching Material: Rapid-setting, fiber-reinforced, high-early-strength, corrosion-resistant, hand-mixed and hand-applied, calcium aluminate based cementitious material. Use Parson RPM by Parson Environmental, Strong Seal QSR, or approved equal. The material shall have the following minimum properties:
 - a. Minimum Compressive Strength, ASTM C 109: 1,400 psi at 6 hours.
 - b. Minimum Bond, ASTM C 321: 145 psi at 28 days.
 - c. Applied Density: 105 plus or minus 5 pounds per cubic foot.
 - d. Shrinkage, ASTM C 596: 0 percent at 90 percent relative humidity.
 - 3. Infiltration Control Material: Rapid-setting, high-early-strength, hand-applied, cementitious material. Use Parson Quick Plug by Parson Environmental, Strong

Plug by Strong Seal Systems, Inc., or approved equal. The material shall have the following minimum properties:

- a. Compressive Strength, ASTM C 109: 400 to 600 psi at 1 hour; 1,800 to 2,400 psi at 24 hours.
- b. Expansion, ASTM C 827: 0.10 percent.
- c. Expansion, ASTM C 267: No weight loss after 15 cycles; 2,000 ppm; test continuing.
- d. Freeze/Thaw Resistance, ASTM C 666, Method A: 100 cycles.
- e. Pull-Out Strength, ASTM C 234: 14,000 pounds.
- f. Placement Time: Less than 1 minute.
- 4. Cementitious Grout: Used for stopping very active infiltration and filling voids. Use Parson Hydro Grout by Parson Environmental, or approved equal. The material shall have the following minimum properties:
 - a. Viscosity of 100 cps@77 degrees F. meeting ASTM D-1638.
 - b. Density of 4 lbs/cft meeting ASTM D-1622.
 - c. Elongation of 50 % meeting ASTM D-638.
 - d. Tensile strength of 27 psi meeting ASTM D-638.
 - e. Shear strength of 20 psi meeting ASTM D-732.
 - f. Water absorption less than 1 % by volume meeting ASTM D-2842.
- 5. Liner Material: High strength, corrosion resistant 100% calcium aluminate cement that can be sprayed uniformly onto a vertical surface without sagging or excessive rebound. Use Parson Ca Liner 100+ by Parson Environmental, Sewper Coat PG by Kerneos, or approved equal. The material shall have the following minimum properties:
 - a. Compressive strength exceeding 9,000 psi at 28 days meeting ASTM C-109.
 - b. Flexural strength exceeding 1,600 psi at 28 days meeting ASTM C-293.
 - c. Tensile strength exceeding 800 psi at 28 days meeting ASTM C-190.
 - d. Shrinkage of 0% at 28 days @ 90% RH meeting ASTM C-157.
 - e. Bond strength exceeding 2,000 psi at 28 days meeting ASTM C-882.
 - f. Density of 130 pcf.
 - g. Freeze thaw rating of 300 cycles with no damage meeting ASTM C-666.
 - h. Permeability less than 300 coulombs.
 - i. Sulfide resistance with no weight loss after 90 days in 20,000 ppm aqueous sulfuric acid solution meeting ASTM C-267.
- 6. Mortar / Epoxy Composite Liner System: When called for in areas subject to corrosion, an epoxy corrosion barrier topcoat shall be applied over the calcium aluminate liner material within 24 hours of application of the liner. The epoxy

liner shall be Parsonpoxy SEL-80HP by Parson Environmental or approved equal and have the following minimum properties:

- a. Maximum set time of 3 to 5 hours with a maximum cure time of 12 to 14 hours.
- b. Compressive strength of 19,500 psi meeting ASTM D-695.
- c. Tensile strength of 8,000 psi meeting ASTM D-638.
- d. Flexural strength of 13,000 psi meeting ASTM D-790.
- e. Elongation of 4.3% minimum meeting ASTM D-638.
- f. Initial flexural modulus of 750,000 psi meeting ASTM D-790.
- g. Long term flexural modulus of 375,000 psi meeting ASTM D-790.
- h. Modulus of elasticity of 554,000 psi meeting ASTM ASTM D-638.
- i. Impact resistance of 0.315 ft-lb/in of notch meeting ASTM D-256.
- j. Adhesion to concrete meeting ASTM D-4541.
- k. Shore D hardness of 88 meeting ASTM D-2240.
- 7. Structural Liner: When called for in areas requiring structural rehabilitation, a polyurethane based spray applied monolithic resin liner shall be used. The structural liner shall be SprayWall by Sprayroq, Inc. or approved equal and have the following minimum properties:
 - a. Compressive strength of 10,500 psi meeting ASTM D-695.
 - b. Tensile strength of 7,000 psi meeting ASTM D-638.
 - c. Flexural strength of 12,000 psi meeting ASTM D-790.
 - d. Bond strength exceeding the tensile strength of the substrate.
 - e. Initial flexural modulus of 735,000 psi meeting ASTM D-790.
 - f. Density of 87+/- pcf.
 - g. The finished structure shall be completely corrosion resistant to hydrogen sulfide, 20% sulfuric acid, 17% nitric acid, 55% sodium hydroxide, road salts used in winter conditions and all other elements common to sewage systems.
 - h. The wall of the resin based liner system shall be structurally designed to withstand the hydraulic load generated by the groundwater table and restore structural integrity.
 - i. The long term (50 year) value for flexural modulus of elasticity will be a minimum of 500,000 psi and is an integral part of the engineering equation used to design the wall thickness of the structural liner. Therefore, the value of the long term flexural modulus of the proposed produce will be certified by an independent, third party testing lab and submitted with the design calculations for each individual structure.
- 8. Water: Clean and potable. Non-potable water shall be tested in accordance with ASTM C94 and approved for use.

H. <u>Surface preparation:</u>

- 1. Examine surface to receive manhole lining and notify the Owner and Engineer if surfaces are not acceptable for the intended application. Do not begin surface preparation, repair, or application until unacceptable conditions have been corrected.
- 2. All surface preparation shall be in accordance with manufacturer's instructions.
- 3. Place covers over invert to prevent extraneous material from entering sewer line.
- 4. Clean manhole walls and bench by using a minimum of 1,500 psi water spray to remove contaminants, dirt, debris, and other foreign materials.
- 5. Remove loose, unsound, and protruding brick, mortar, and concrete.
- 6. Repair and fill voids greater than 2 inches in depth with patching material. Apply patching material in accordance with manufacturer's instruction
- 7. Stop active leaks with patching material or infiltration control material. Apply patching material in accordance with manufacturer's instructions.
- 8. Severe Infiltration: Drill as required to pressure grout using a cementitious or chemical grout. Apply grout in accordance with manufacturer's instructions.
- 9. Before application of each material, surfaces to be sprayed or coated will be inspected by the Engineer. Correct defects or deficiencies identified by the Engineer before application of subsequent material.
- 10. Advance Notice: Give the Engineer a minimum of 3 days advance notice of start of application.
- I. <u>Application of liner material:</u>
 - 1. Apply liner material in accordance with manufacturer's instructions.
 - 2. Ensure surface is damp and totally saturated with water without noticeable free water droplets or running water, just before application of liner material.
 - 3. Spray-apply liner material using approved equipment designed and manufactured by material manufacturer for the specific application.
 - 4. Mixing:
 - a. Mix liner material with water in accordance with manufacturer's instructions.
 - b. Discharge prepared mix into hopper.

- c. Continue mixing as liner material is continuously sprayed.
- 5. Spray apply liner material in 1 or more passes from bottom of wall to bottom of frame to form a structurally enhanced monolithic liner.
- 6. Trowel surface of sprayed liner material to relatively smooth finish. Do not over trowel.
- 7. Apply brush finish to trowel finished surface.
- 8. Application to Bench:
 - a. Follow manufacturer's instructions whenever more than 24 hours have elapsed between applications.
 - b. Spray apply liner material to produce a gradual slope from walls to invert to form a structurally enhanced monolithic liner. Minimum thickness at invert of ¹/₂ inch.
 - c. Round full circumference of intersection of wall and bench to a uniform radius.
- J. <u>Curing:</u>
 - 1. Cure materials in accordance with manufacturer's instructions.
 - 2. Exposure:
 - a. Minimize exposure of applied materials to sunlight and air movement.
 - b. Cover structure if time between applications of additional coats is to be longer than 15 minutes.
 - c. Do not expose finished materials to sunlight or air movement for longer than 15 minutes before covering or closing access.
 - d. Shade manhole while rehabilitation is in process in hot and arid climates.
 - 3. Apply concrete during compound if relative humidity is less than 70 percent within manhole in accordance with manufacturer's instructions.
 - 4. Allow a minimum of 12 hours cure time before subjecting manholes to flows.
 - 5. Do not allow traffic for a minimum of 24 hours after final application of liner material.
- 8.09 FINAL ACCEPTANCE: After the specified rehabilitation work has been completed, the manholes shall be visually inspected and tested by the contractor in the presence of the Owner or Engineer as designated.
 - A. <u>Manhole lining test:</u> Manholes, which have been lined, shall be visually inspected for water tightness against leakage of water into the manhole. All visual leaks and

defects observed during inspection shall be repaired. The contractor shall test the lined manholes structurally sealed using one of the following methods.

1. Exfiltration Testing: Incoming and outgoing sewer and service lines shall be plugged, the plugs restrained and the manhole filled with water to the top of the manhole frame. A soaking period of up to 1 hour will be allowed if bypassing of the sewage is not required or has been provided for. At the end of this optional soaking period, the manhole shall be refilled with water and the test begun.

If the water loss exceeds that shown in the following table, the manhole will have failed the test.

Depth of Manhole	Maximum Allowable Loss
Under 8 feet deep	1 inch in 5 minutes
Over 8 feet deep	1/8 inch per foot of depth, In 5 minutes

- 2. Vacuum Testing ASTM C-1244: All incoming and outgoing sewer and service lines shall be plugged, the plugs restrained and the vacuum tester head placed on the manhole frame and sealed. A vacuum of 10 inches Hg shall then be drawn on the manhole and the time measured for the vacuum to drop to 9 inches Hg. This time shall not be less than 40, 50, or 60 seconds for manhole diameters of 48, 60, and 72 inches respectively. For manholes deeper than 20 feet, the test times shall be increased by 2 seconds per foot of additional depth.
- 3. If exfiltration or vacuum testing is used a minimum of 10 percent of the sealed manholes as chosen by the engineer shall be tested. Manholes that fail shall be reworked and retested by the contractor at no additional compensation. If more than 5 percent of the manholes tested fail the initial test, an additional 10 percent of the sealed manholes shall be tested. This process will continue until testing is satisfactory, or until all manholes have been tested.

B. <u>Chimney and joint seal testing</u>

- 1. Mechanical seals shall be visually inspected to insure that the sleeve is properly positioned, tight against the manhole surfaces, that no voids or leakage points exist under the sleeve and that the bands and locking nuts are tight.
- 2. Coating system seals shall be visually inspected to insure that they have been applied according to the manufacturer's instructions and are free from leaks and defects in material and workmanship.

- C. <u>Manhole cover dish insert inspection</u>: The sealed manhole covers shall be visually inspected to insure that the bearing surface was properly cleaned and that products were properly sized and installed according to the manufacturer's instructions.
- D. <u>Warranty period and correction</u>
 - 1. Any manholes that were leaking are visually unacceptable, or fail the test shall be reworked and retested. The contractor shall not be reimbursed for the cost of this additional work unless the inspection shows that the work performed by the contractor was not the reason for the failure of the manhole to pass the manhole test.
 - 2. The Owner or his representative reserves the right to inspect the sealed manholes during the warranty period. The contractor shall correct any leakage or defects in the work found by this inspection within an agreed-upon time upon no additional cost to the owner.

PART 9. MEASURE AND PAYMENT

9.01 GENERAL: Section includes:

- A. Measurement and payment criteria applicable to the work performed under a unit price payment method.
- B. Measurement and payment criteria applicable to the work performed under a lump sum payment method.
- C. Measurement and payment criteria applicable to the Work performed under a work order payment method.
- D. Defect assessment and non-payment for rejected work.

9.02 AUTHORITY

- A. Contractor shall take all measurements and compute quantities. The Owner or Engineer will verify measurements and quantities.
- B. Contractor shall assist by providing necessary equipment, labor, and survey equipment as required when requested by Owner or Engineer.

9.03 UNIT QUANTITIES SPECIFIED:

- A. Quantities indicated on the bid form are for bidding and contract purposes only. Quantities supplied or placed in the work and verified by the Owner or Engineer determine payment.
- B. If the actual work requires more or fewer quantities than those quantities indicated, the contractor shall provide the required quantities at the unit prices contracted.
- C. If a substantial change in quantity of any line item is anticipated, the Contractor shall notify the Owner and Engineer immediately.

9.04 GENERAL REQUIREMENTS:

A. Lump sum and unit prices shall include providing all costs required for the complete construction of the specified unit of work including cost of materials and delivery; cost of installation; labor including social security, insurance, and other required fringe benefits; workman's compensation insurance; bond premiums; rental of equipment and machinery; taxes; testing; surveys; incidental expenses; and supervision.

- B. The Owner reserves the right to reject the Contractor's measurement of completed work that involves use of established unit prices, and to have this Work measured by an independent surveyor acceptable to the Contractor at the Owner's expense.
- C. Contract Sum adjustments will be by Change Order on basis of net accumulative change for each unit price category.
 - 1. Except as otherwise specified, unit prices shall apply to both deductive and additive variations of quantities.
 - 2. Lump sum and unit prices in the Agreement shall remain in effect until date of final completion of the entire Work.
- D. Partial payment for material and equipment properly stored and protected will be made in accordance with requirements of the General Conditions.
- E. Payment will be made at the respective contract unit and lump sum price for each item shown in the Agreement, installed and accepted, which price and payment shall constitute full compensation for furnishing all materials and performing all Work in connection therewith and incidental thereto.
 - 1. No separate payment will be made for:
 - a. Record Drawings
 - b. Construction of haul roads as may be required.
 - c. Testing

9.05 DEFECT ASSESSMENT

- A. Replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of the Engineer and Owner, it is not practical to remove and replace the Work, the Engineer and Owner will direct one of the following remedies:
 - 1. The defective Work may remain, but the unit/lump sum price will be adjusted to a new price at the discretion of the Engineer and Owner.
 - 2. The defective Work will be partially repaired to the instructions of the Engineer and Owner, and the price will be adjusted to a new price at the discretion of the Engineer and Owner.
 - 3. The individual specification sections may modify these options or may identify a specific method for modification or correction.

C. The authority of the Engineer and Owner to assess the defect and identify payment adjustment is final.

9.06 NON-PAYMENT FOR REJECTED PRODUCTS

- A. Payment will not be made for any of the following:
 - 1. Products wasted or disposed of in a manner that is not acceptable.
 - 2. Products determined as unacceptable before or after placement.
 - 3. Products not completely unloaded from the transporting vehicle.
 - 4. Products placed beyond the lines and levels of the required Work.
 - 5. Products remaining on hand after completion of the Work.
 - 6. Loading, hauling and disposing of rejected Products.

9.07 PROJECT ITEM DESCRIPTION

- A. <u>Sanitary Sewer Televising</u>
 - 1. Description: The work included under this item includes furnishing all labor, materials, and equipment necessary for video inspection of existing sanitary sewers including, but not limited to, light cleaning, disposal of cleaning material, production of video documentation, traffic control, maintenance of sewer flows including temporary bypass pumping if necessary, locating buried manholes, and all other items not identified in other payment items.
 - 2. Measurement and Payment:
 - a. Measurement will be made along the televised existing pipe including fittings.
 - b. Payment will be made at the contract unit price per foot for the size of line televised as stated in the bid schedule complete in place.

B. <u>Chemical Root Treatment</u>

1. Description: The work included in this item includes furnishing all labor, materials and equipment for chemical root treatment of the existing sanitary sewers including, but not limited to, traffic control, application of chemical root control, maintenance of sewer flows including bypass pumping if necessary, locating buried manholes, obtaining necessary permits, water for mixing, and all other associated work.

- 2. Payment: Payment will be made at the contract unit price per each linear foot of sanitary sewer treated as stated in the bid schedule complete in place.
- C. <u>Sewer Joint Grout Testing and Sealing</u>
 - 1. Description: The work under this item includes all labor, material and equipment necessary for testing and grout sealing existing sanitary sewer joints including mechanical removal of deposits and roots, water, grout, traffic control, maintenance of sewer flows including bypass pumping if necessary, locating buried manholes, obtaining necessary permits, water, providing grouting reports, and all other associated work.
 - 2. Measurement and Payment: Measurement and payment will be made at the contract price per each for the various sizes of sewer joints tested and sealed, complete in place.

D. <u>CIPP Sanitary Sewer Relining</u>

- 1. Description: The work under this item includes all labor, materials and equipment necessary for installation of the CIPP sewer lining including, but not limited to, traffic control, water, locating buried manholes, cleaning of the existing sewer as necessary to remove deposits and materials, pre and post lining video, six to twelve month warranty televising, service lateral reinstatement, and all other associated work.
- 2. Measurement will be made along the centerline of the installed pipe complete in place.
- 3. Payment will be made at the contract unit price per linear feet for CIPP installed as stated in the bid schedule complete in place.
- E. <u>CIPP Spot Liner</u>
 - 1. Description: The work under this item includes all labor, materials and equipment necessary for installation of the CIPP spot liners including, but not limited to, traffic control, water, locating buried manholes, cleaning of the existing sewer as necessary to remove deposits and materials, pre and post lining video, and all other associated work.
 - 2. Measurement: Measurement will be made per each size of spot liner installed as indicated on the bid schedule.
 - 3. Payment: Payment will be made at the contract unit price per each for the size of Spot Liner as indicated in the bid schedule installed complete in place.

F. Grout Seal Reinstated Lateral Connection

- 1. Description: The work included under this item includes furnishing all labor, equipment and materials necessary for grout sealing reinstated service laterals in CIPP lined pipes, including traffic control, maintenance of sewer flows including bypass pumping as necessary, water, locating buried manholes, and all other items not identified in other payment items.
- 2. Measurement and Payment: Measurement and payment will be made at the contract price per each for the various sizes of Reinstated Service Laterals as stated in the bid schedule, grout sealed, complete in place.
- G. <u>Grout Seal Capped Service Laterals</u>
 - 1. Description: The work under this item includes all labor, material and equipment necessary for testing and grout sealing existing capped lateral connections to sewers, including mechanical removal of deposits and roots, water, grout, traffic control, maintenance of sewer flows including bypass pumping if necessary, locating buried manholes, obtaining necessary permits, water, providing grouting reports, and all other associated work.
 - 2. Measurement and Payment: Measurement and payment will be made at the contract price per each for the various sizes of sewer joints tested and sealed, complete in place.

H. <u>Manhole No-Inflow Dish</u>

- 1. Description: The work under this item includes all labor, material and equipment necessary for installation of No-Inflow Dishes in existing manholes including, but not limited to, verifying manhole casting size, removal of debris or existing dishes, traffic control, locating buried manholes, and all other associated work.
- 2. Measurement and Payment: Measurement and payment will be made at the contract price per each manhole dish installed, complete in place.
- I. Internal Manhole Chimney Seal
 - 1. Description: The work under this item includes all labor, material and equipment necessary for installation of Internal Mechanical Chimney Seals in existing manholes including, but not limited to, verifying manhole chimney size, removal of debris, traffic control, locating buried manholes, and all other associated work.
 - 2. Measurement and Payment: Measurement and payment will be made at the contract price per each manhole chimney seal, complete in place.

J. Internal Manhole Joint Seal

- 1. Description: The work under this item includes all labor, material and equipment necessary for installation of Internal Mechanical Manhole Joint Seals in existing manholes including, but not limited to, verifying manhole size, removal of debris, traffic control, locating buried manholes, and all other associated work.
- 2. Measurement and Payment: Measurement and payment will be made at the contract price per each manhole joint seal, complete in place.

K. <u>Manhole Lining</u>

- 1. Description: The work included under this item includes furnishing all labor and materials for each type of manhole lining as called for, but not limited to, surface preparation, stopping active leaks, filling voids, application of manhole coatings, testing, traffic control, maintenance of sewer flows including bypass pumping as necessary, and all other associated work.
- 2. Measurement and Payment: Measurement and payment will be made at the contract price per each manhole lining completed and tested.

9.08 APPLICATION FOR PAYMENT

- A. <u>Required Forms</u>
 - 1. Utilize Application for Payment Form provided in Contract Documents Section of this Project Manual.

B. <u>Preparation of Applications</u>

- 1. Present required information in typewritten form.
- 2. Execute certification by signature of authorized officer.
- 3. Use data from approved Schedule of Values. Provide dollar value in each column for each line item for portion of work performed and for stored Products.
- 4. List each authorized Change Order.

DAVIS-BACON WAGE DETERMINATIONS

SECTION E

"General Decision Number: OH20230001 04/14/2023

Superseded General Decision Number: OH20220001

State: Ohio

Construction Types: Heavy and Highway

Counties: Ohio Statewide.

Heavy and Highway Construction Projects

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	 Executive Order 14026 generally applies to the contract. The contractor must pay all covered workers at least \$16.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2023.
<pre>If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:</pre>	

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at http://www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/06/2023
1	02/03/2023
2	03/03/2023

04/14/2023

SAM.gov

* BROH0001-001 06/01/2022

3

DEFIANCE, FULTON (Excluding Fulton, Amboy & Swan Creek Townships), HENRY (Excluding Monroe, Bartlow, Liberty, Washington, Richfield, Marion, Damascus & Townships & that part of Harrison Township outside corporate limits of city of Napoleon), PAULDING, PUTNAM and WILLIAMS COUNTIES

	Rates	Fringes
Bricklayer, Stonemason	.\$ 31.40	18.55
* BROH0001-004 06/01/2022		
	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	.\$ 31.40	18.55

* BROH0003-002 06/01/2022

FULTON (Townships of Amboy, Swan Creek & Fulton), HENRY (Townships of Washington, Damascus, Richfield, Bartlow, Liberty, Harrison, Monroe, & Marion), LUCAS and WOOD (Townships of Perrysburg, Ross, Lake, Troy, Freedom, Montgomery, Webster, Center, Portage, Middleton, Plain, Liberty, Henry, Washington, Weston, Milton, Jackson & Grand Rapids) COUNTIES

 Rates
 Fringes

 Bricklayer, Stonemason......\$ 31.40
 18.55

 BROH0005-003 06/01/2020
 18.55

CUYAHOGA, LORAIN & MEDINA (Hinckley, Granger, Brunswick, Liverpool, Montville, York, Homer, Harrisville, Chatham, Litchfield & Spencer Townships and the city of Medina)

	Rates	Fringes
BRICKLAYER BRICKLAYERS; CAULKERS; CLEANERS; POINTERS; & STONEMASONS	\$ 36.64	17.13
SANDBLASTERS SEWER BRICKLAYERS & STACK BUILDERS SWING SCAFFOLDS	\$ 36.39 \$ 36.64	17.13 17.13 17.13
* BROH0006-005 06/01/2022		
CARROLL, COLUMBIANA (Knox, Butler STARK & TUSCARAWAS	, West & Hanove	r Townships),
	Rates	Fringes
Bricklayer, Stonemason	\$ 31.40	18.55
* BROH0007-002 06/01/2022		

	Rates	Fringes
Bricklayer, Stonemason	\$ 31.40	18.55
* BROH0007-005 06/01/2022		
PORTAGE & SUMMIT		
	Rates	Fringes
BRICKLAYER		18.55
BROH0007-010 06/01/2017		
PORTAGE & SUMMIT		
	Rates	Fringes
MASON - STONE	\$ 28.65	14.55
* BROH0008-001 06/01/2022		
COLUMBIANA (Salem, Perry, Fair Middleton, & Unity Townships ar MAHONING & TRUMBULL		
	Rates	Fringes
BRICKLAYER	\$ 31.40	18.55
* PROHOGOG 602 6C /01 /2022		
* BROH0009-002 06/01/2022		
* BROH0009-002 06/01/2022 BELMONT & MONROE COUNTIES and t Pleasant and the Village of Di		
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* BROH0016-002 06/01/2022

* BK0H0010-002 00/01/2022		
ASHTABULA, GEAUGA, and LAKE COUNT	IES	
	Rates	Fringes
Bricklayer, Stonemason	\$ 31.40	18.55
* BROH0018-002 06/01/2022		
BROWN, BUTLER, CLERMONT, HAMILTON Israel, Lanier, Somers & Gratis		
	Rates	Fringes
Bricklayer, Stonemason		
* BROH0022-004 06/01/2022		
CHAMPAIGN, CLARK, CLINTON, DARKE, MIAMI, MONTGOMERY, PREBLE (Jackso Jefferson & Washington Townships)	n, Monroe, Harr	ison, Twin,
	Rates	Fringes
Bricklayer, Stonemason	\$ 31.40	18.55
* BROH0032-001 06/01/2022		
GALLIA & MEIGS		
	Rates	Fringes
Bricklayer, Stonemason		
* BROH0035-002 06/01/2022		
ALLEN, AUGLAIZE, MERCER and VAN W	ERT COUNTIES	
	Rates	Fringes
Bricklayer, Stonemason		18.55
* BROH0039-002 06/01/2022		
ADAMS & SCIOTO		
	Rates	Fringes
Bricklayer, Stonemason		18.55
* BROH0040-003 06/01/2022		
ASHLAND, CRAWFORD, HARDIN, HOLMES WAYNE and WYANDOT (Except Crawfor Townships) COUNTIES		

Rates	Fringes
Naces	11 1160.

Bricklayer, Stonemason.....\$ 32.49 23.43

FOOTNOTE: Layout Man and Sawman rate: \$1.00 per hour above

journeyman rate. Free standing stack work ground level to top of stack; Sandblasting and laying of carbon masonry material in swing stage and/or scaffold; Ramming and spading of plastics and gunniting: \$1.50 per hour above journeyman rate. ""Hot"" work: \$2.50 above journeyman rate. _____ * BROH0044-002 06/01/2022 Rates Fringes Bricklayer, Stonemason COSHOCTON, FAIRFIELD, GUERNSEY, HOCKING, KNOX, KICKING, MORGAN, MUSKINGUM, NOBLE (Beaver, Buffalo, Seneca & Wayne Townships) & PERRY 18.55 COUNTIES:....\$ 31.40 BROH0045-002 06/01/2021 FAYETTE, JACKSON, PIKE, ROSS and VINTON COUNTIES Rates Fringes Bricklayer, Stonemason.....\$ 30.40 17.66 _____ * BROH0046-002 06/01/2022 ERIE, HANCOCK, HURON, OTTAWA, SANDUSKY, SENECA, WOOD (Perry & Bloom Townships) and WYANDOT (Tymochtee, Crawford, Ridge & Richland Townships) COUNTIES & the Islands of Lake Erie north of Sandusky Rates Fringes 18.55 Bricklayer, Stonemason.....\$ 31.40 FOOTNOTE: Layout Man and Sawman rate: \$1.00 per hour above journeyman rate. Free standing stack work ground level to top of stack; Sandblasting and laying of carbon masonry material in swing stage and/or scaffold; Ramming and spading of plastics and gunniting: \$1.50 per hour above journeyman rate. ""Hot"" work: \$2.50 above journeyman rate. * BROH0052-001 06/01/2022 ATHENS COUNTY Rates Fringes Bricklayer, Stonemason.....\$ 31.40 18.55 * BROH0052-003 06/01/2022 NOBLE (Brookfield, Noble, Center, Sharon, Olive, Enoch, Stock, Jackson, Jefferson & Elk Townships) and WASHINGTON COUNTIES

Rates

Fringes

Bricklayer, Stonemason	\$ 31.40	18.55
* BROH0055-003 06/01/2022		
DELAWARE, FRANKLIN, MADISON, P	PICKAWAY and UN	ION COUNTIES
	Rates	Fringes
Bricklayer, Stonemason		18.55
CARP0003-004 05/01/2017		
AHONING & TRUMBULL		
	Rates	Fringes
CARPENTER	\$ 26.20	17.42
CARP0069-003 05/01/2017		
CARROLL, STARK, TUSCARAWAS & W	IAYNE	
	Rates	Fringes
CARPENTER		15.98
CARP0069-006 05/01/2017		
COSHOCTON, HOLMES, KNOX & MORR	OW	
	Rates	Fringes
CARPENTER	\$ 24.04	15.29
CARP0171-002 05/01/2019		
BELMONT, COLUMBIANA, HARRISON,	JEFFERSON & MO	DNROE
	Rates	Fringes
CARPENTER	\$ 27.37	20.02
CARP0200-002 05/01/2021		
ADAMS, ATHENS, DELAWARE, FAIRF GUERNSEY, HIGHLAND, HOCKING, J MADISON, MARION, MEIGS, MORGAN PICKAWAY, PIKE, ROSS, SCIOTO, COUNTIES	ACKSÓN, LAWREŃO I, MUSKINGUM, NO	CE, LICKING, DBLE, PERRY,
	Rates	Fringes
	Races	TT THEES
CARPENTER Diver PILEDRIVERMAN	\$ 30.28 \$ 39.41 \$ 30.28	20.08 10.40 20.08
Diver	\$ 30.28 \$ 39.41 \$ 30.28	20.08 10.40
Diver PILEDRIVERMAN	\$ 30.28 \$ 39.41 \$ 30.28	20.08 10.40 20.08
Diver PILEDRIVERMAN CARP0248-005 07/01/2008	\$ 30.28 \$ 39.41 \$ 30.28	20.08 10.40 20.08

	Rates	Fringes
CARPENTER DEFIANCE, FULTON, HANCOCK HENRY, PAULDING & WILLIAM COUNTIES	IS	13.28
CARP0254-002 05/01/2017		
ASHTABULA, CUYAHOGA, GEAUGA &	LAKE	
	Rates	Fringes
CARPENTER		16.97
CARP0372-002 05/01/2016		
ALLEN, AUGLAIZE, HARDIN, MERCE	R, PUTNAM & VAN	N WERT
	Rates	Fringes
CARPENTER	\$ 24.54	18.21
CARP0639-003 05/01/2017		
MEDINA, PORTAGE & SUMMIT		
	Rates	Fringes
CARPENTER		16.99
CARP0735-002 05/01/2019		
ASHLAND, ERIE, HURON, LORAIN &	RICHLAND	
	Rates	Fringes
CARPENTER		17.91
CARP1311-001 05/01/2017		
BROWN, BUTLER, CHAMPAIGN, CLAR GREENE, HAMILTON, LOGAN, MIAMI WARREN		
	Rates	Fringes
Carpenter & Piledrivermen Diver	\$ 40.58	15.95 9.69
CARP1393-002 07/01/2008		
CARP1393-002 07/01/2008 CRAWFORD, DEFIANCE, FULTON, HA PAULDING, SANDUSKY, SENECA, WI		LUCAS, OTTAWA,
CRAWFORD, DEFIANCE, FULTON, HA		
CRAWFORD, DEFIANCE, FULTON, HA	LLIAMS & WOOD Rates	

4/23, 11:16 AM		SAM.gov
CARP1393-003 07/01/2008		
ALLEN, AUGLAIZE, HARDIN, MERCER, PUT	FNAM, VAN	WERT & WYANDOT
Ra	ates	Fringes
Piledrivermen & Diver's Tender\$ 2	25.15	15.92
DIVERS - \$250.00 per day		
CARP1871-006 05/01/2017		
BELMONT, HARRISON, & MONROE		
Ra	ates	Fringes
Diver, Wet\$ 4 Piledrivermen; Diver, Dry\$ 3		17.33 17.33
CARP1871-008 05/01/2017		
ASHLAND, ASHTABULA, CUYAHOGA, ERIE, LORAIN, MEDINA, PORTAGE, RICHLAND &		URON, LAKE,
Ra	ates	Fringes
Diver, Wet\$ 4 Piledrivermen; Diver, Dry\$ 3		18.84 18.84
CARP1871-014 05/01/2017		
CARROLL, STARK, TUSCARAWAS & WAYNE		
Ra	ates	Fringes
Diver, Wet\$ 2 Piledrivermen; Diver, Dry\$ 2	25.56	16.95 16.95
CARP1871-015 05/01/2017		
COSHOCTON, HOLMES, KNOX & MORROW		
Ra	ates	Fringes
Diver, Wet\$ 3 Piledrivermen; Diver, Dry\$ 2	24.89	16.07 16.07
CARP1871-017 05/01/2017		
AHONING & TRUMBULL		
Ra	ates	Fringes
Diver, Wet\$ 4 Piledrivermen; Diver, Dry\$ 2	27.10	
CARP2235-012 01/01/2014		
COLUMBIANA & JEFFERSON		
Ra	ates	Fringes
PILEDRIVERMAN\$	31.74	16.41

CARP2239-001 07/01/2008

CRAWFORD, OTTAWA, SANDUSKY, SENECA & WYANDOT

CRAWFORD, OTTAWA, SANDUSKY, SENE	CA & WYANDOT	
	Rates	Fringes
CARPENTER		13.28
ELEC0008-002 05/23/2022		
DEFIANCE, FULTON, HANCOCK, HENRY PUTNAM, SANDUSKY, SENECA, WILLIA		, PAULDING,
	Rates	Fringes
CABLE SPLICER	.\$ 44.79	
ELEC0032-003 12/05/2022		
ALLEN, AUGLAIZE, HARDIN, LOGAN, WYANDOT (Crawford, Jackson, Mars Ridge & Salem Townships)		
	Rates	Fringes
ELECTRICIAN		21.48
ELEC0038-002 04/25/2022		
CUYAHOGA, GEAUGA (Bainbridge, Ch LORAIN (Columbia Township)	ester & Russell	. Townships) &
	Rates	Fringes
ELECTRICIAN Excluding Sound & Communications Work	.\$ 40.88	22.75
FOOTNOTES; a. 6 Paid Holidays: New Year's Labor Day; Thanksgiving Day; & b. 1 week's paid vacation for vacation for 2 or more years'	Christmas Day 1 year's servio	
ELEC0038-008 04/25/2022		
CUYAHOGA, GEAUGA (Bainbridge, Ch LORAIN (Columbia Township)	ester & Russell	. Townships) &
	Rates	Fringes
Sound & Communication Technician Communications Technician Installer Technician	-	13.29 13.25
FOOTNOTES;	Dav: Memorial	Dav: July Ath:

a. 6 Paid Holidays: New Year's Day; Memorial Day; July 4th;

Labor Day; Thanksgiving Day; & Christmas Day b. 1 week's paid vacation for 1 year's service; 2 weeks' paid vacation for 2 or more years' service

ELEC0064-003 11/28/2022

COLUMBIANA (Butler, Fairfield, Perry, Salem & Unity Townships) MAHONING (Austintown, Beaver, Berlin, Boardman, Canfield, Ellsworth, Coitsville, Goshen, Green, Jackson, Poland, Springfield & Youngstown Townships), & TRUMBULL (Hubbard & Liberty Townships)

Rates Fringes ELECTRICIAN.....\$ 36.10 18.91 ELEC0071-001 01/01/2019

ASHLAND, CHAMPAIGN, CLARK, COSHOCTON, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY, HIGHLAND, HOCKING, JACKSON (Coal, Jackson, Liberty, Milton, Washington & Wellston Townships), KNOX, LICKING, MADISON, MARION, MONROE, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE (Beaver, Benton, Jackson, Mifflin, Pebble, Peepee, Perry & Seal Townships), RICHLAND, ROSS, TUSCARAWAS (Auburn, Bucks, Clay, Jefferson, Oxford, Perry, Salem, Rush, Washington & York Townships), UNION, VINTON (Clinton, Eagle, Elk, Harrison, Jackson, Richland & Swan Townships), and WASHINGTON COUNTIES

Line Construction Equipment Operators......\$ 33.62 13.40 Groundmen.....\$ 24.17 11.32 Linemen & Cable Splicers....\$ 38.27 14.42

Rates

Fringes

ELEC0071-004 01/01/2019

AUGLAIZE, CLINTON, DARKE, GREENE, LOGAN, MERCER, MIAMI, MONTGOMERY, PREBLE, and SHELBY COUNTIES

RatesFringesLine ConstructionEquipment Operator......\$ 33.6213.40Groundman......\$ 24.1711.32Lineman & Cable Splicers....\$ 38.2714.42

ELEC0071-005 12/31/2018

ASHTABULA, CUYAHOGA, GEAUGA, LAKE & LORAIN

	Rates	Fringes
LINE CONSTRUCTION:	Fauinment	
Operator	сцитршенс	
DOT/Traffic Si	gnal &	
5,5	ng Projects\$ 32.44	14.10
Municipal Powe		
•	\$ 40.10	16.42
LINE CONSTRUCTION:	Groundman	

24/23, 11:	16 AM		SAM.gov
H	OT/Traffic Signal & ighway Lighting Projects	\$ 25.06	12.26
	unicipal Power/Transit rojects	\$ 31.19	14.11
LINE C	ONSTRUCTION: n/Cable Splicer	+	
D H	OT/Traffic Signal & ighway Lighting Projects	\$ 36.13	15.03
	unicipal Power/Transit rojects		17.58
ELEC0	071-008 01/01/2019		
COLUMB	IANA, MAHONING, and TRUMBU	LL COUNTIES	
		Rates	Fringes
	onstruction	4 22 62	
	quipment Operator		13.40
	roundman		11.32 14.42
	ineman & Cable Splicers		
	071-010 01/01/2019		
	T, CARROLL, HARRISON, HOLME SUMMIT, and WAYNE COUNTIES		EDINA, PORTAGE,
		Rates	Fringes
	onstruction		Fringes
E	quipment Operator	\$ 33.62	Fringes 13.40
E G	quipment Operator roundman	\$ 33.62 \$ 24.17	13.40 11.32
E G L	quipment Operator roundman ineman & Cable Splicers	\$ 33.62 \$ 24.17 \$ 38.27	13.40 11.32 14.42
E G L	quipment Operator roundman	\$ 33.62 \$ 24.17 \$ 38.27	13.40 11.32 14.42
E G L ELECO	quipment Operator roundman ineman & Cable Splicers	\$ 33.62 \$ 24.17 \$ 38.27	13.40 11.32 14.42
E G L ELECO	<pre>quipment Operator roundman ineman & Cable Splicers 071-013 01/01/2019</pre>	\$ 33.62 \$ 24.17 \$ 38.27	13.40 11.32 14.42
ELECO BROWN, Line C	<pre>quipment Operator roundman ineman & Cable Splicers 071-013 01/01/2019 BUTLER, CLERMONT, HAMILTON onstruction</pre>	\$ 33.62 \$ 24.17 \$ 38.27 , and WARREN COL Rates	13.40 11.32 14.42 JNTIES Fringes
ELECØ BROWN, Line C	<pre>quipment Operator roundman ineman & Cable Splicers 071-013 01/01/2019 BUTLER, CLERMONT, HAMILTON onstruction quipment Operator</pre>	\$ 33.62 \$ 24.17 \$ 38.27 , and WARREN COU Rates \$ 33.62	13.40 11.32 14.42 JNTIES Fringes 13.40
ELECO BROWN, Line C G	<pre>quipment Operator roundman ineman & Cable Splicers 071-013 01/01/2019 BUTLER, CLERMONT, HAMILTON onstruction quipment Operator roundman</pre>	<pre>\$ 33.62 \$ 24.17 \$ 38.27 , and WARREN COU Rates \$ 33.62 \$ 24.17</pre>	13.40 11.32 14.42 JNTIES Fringes 13.40 11.32
ELECO BROWN, Line C G	<pre>quipment Operator roundman ineman & Cable Splicers 071-013 01/01/2019 BUTLER, CLERMONT, HAMILTON onstruction quipment Operator</pre>	<pre>\$ 33.62 \$ 24.17 \$ 38.27 , and WARREN COU Rates \$ 33.62 \$ 24.17</pre>	13.40 11.32 14.42 JNTIES Fringes 13.40
ELECO BROWN, Line C G L	<pre>quipment Operator roundman ineman & Cable Splicers 071-013 01/01/2019 BUTLER, CLERMONT, HAMILTON onstruction quipment Operator roundman</pre>	<pre>\$ 33.62 \$ 24.17 \$ 38.27 , and WARREN COU Rates \$ 33.62 \$ 24.17</pre>	13.40 11.32 14.42 JNTIES Fringes 13.40 11.32
ELECO BROWN, Line C ELECO BROWN, Line C C C C C C C C C C C C C C C C C C C	<pre>quipment Operator roundman ineman & Cable Splicers 071-013 01/01/2019 BUTLER, CLERMONT, HAMILTON onstruction quipment Operator roundman ineman & Cable Splicers 071-014 01/01/2019 ATHENS, GALLIA, JACKSON (B Jefferson, Scioto & Madison Camp Creek, Marion, Newton, ips), SCIOTO & VINTON (Brow</pre>	<pre>\$ 33.62 \$ 24.17 \$ 38.27 , and WARREN COU Rates \$ 33.62 \$ 24.17 \$ 38.27</pre>	13.40 11.32 14.42 JNTIES Fringes 13.40 11.32 14.42
ELECO BROWN, Line C ELECO BROWN, Line C C C C C C C C C C C C C C C C C C C	<pre>quipment Operator roundman ineman & Cable Splicers 071-013 01/01/2019 BUTLER, CLERMONT, HAMILTON onstruction quipment Operator ineman & Cable Splicers 071-014 01/01/2019 ATHENS, GALLIA, JACKSON (B Jefferson, Scioto & Madison Camp Creek, Marion, Newton,</pre>	<pre>\$ 33.62 \$ 24.17 \$ 38.27 , and WARREN COU Rates \$ 33.62 \$ 24.17 \$ 38.27</pre>	13.40 11.32 14.42 JNTIES Fringes 13.40 11.32 14.42
ELECO BROWN, Line C ELECO ADAMS, Lick, PIKE (Townsh	<pre>quipment Operator roundman ineman & Cable Splicers 071-013 01/01/2019 BUTLER, CLERMONT, HAMILTON onstruction quipment Operator roundman ineman & Cable Splicers 071-014 01/01/2019 ATHENS, GALLIA, JACKSON (B Jefferson, Scioto & Madison Camp Creek, Marion, Newton, ips), SCIOTO & VINTON (Brow</pre>	<pre>\$ 33.62 \$ 24.17 \$ 38.27 , and WARREN COU Rates \$ 33.62 \$ 24.17 \$ 38.27</pre>	13.40 11.32 14.42 JNTIES Fringes 13.40 11.32 14.42
ELECO BROWN, Line C ELECO ADAMS, Lick, PIKE (Townsh Wilkes Line C	<pre>quipment Operator roundman ineman & Cable Splicers 071-013 01/01/2019 BUTLER, CLERMONT, HAMILTON onstruction quipment Operator roundman ineman & Cable Splicers 071-014 01/01/2019 ATHENS, GALLIA, JACKSON (B Jefferson, Scioto & Madison Camp Creek, Marion, Newton, ips), SCIOTO & VINTON (Brow ville Townships) onstruction</pre>	<pre>\$ 33.62 \$ 24.17 \$ 38.27 , and WARREN COU Rates \$ 33.62 \$ 24.17 \$ 38.27 loomfield, Frank Townships), LAW Scioto, Sunfisk n, Knox, Madisor Rates</pre>	13.40 11.32 14.42 JNTIES Fringes 13.40 11.32 14.42 klin, Hamilton, WRENCE, MEIGS, n & Union h, Vinton & Fringes
ELECO BROWN, Line C ELECO ADAMS, Lick, PIKE (Townsh Wilkes Line C	<pre>quipment Operator roundman ineman & Cable Splicers 071-013 01/01/2019 BUTLER, CLERMONT, HAMILTON onstruction quipment Operator roundman ineman & Cable Splicers 071-014 01/01/2019 ATHENS, GALLIA, JACKSON (B Jefferson, Scioto & Madison Camp Creek, Marion, Newton, ips), SCIOTO & VINTON (Brow ville Townships) onstruction quipment Operator</pre>	<pre>\$ 33.62 \$ 24.17 \$ 38.27 , and WARREN COU Rates \$ 33.62 \$ 24.17 \$ 38.27 loomfield, Frank Townships), LAW Scioto, Sunfisk n, Knox, Madisor Rates \$ 33.62</pre>	13.40 11.32 14.42 JNTIES Fringes 13.40 11.32 14.42 (lin, Hamilton, WRENCE, MEIGS, n & Union h, Vinton & Fringes 13.40
E G L ELECO BROWN, Line C ELECO ADAMS, Lick, PIKE (Townsh Wilkes Line C G G	<pre>quipment Operator roundman ineman & Cable Splicers 071-013 01/01/2019 BUTLER, CLERMONT, HAMILTON onstruction quipment Operator roundman ineman & Cable Splicers 071-014 01/01/2019 ATHENS, GALLIA, JACKSON (B Jefferson, Scioto & Madison Camp Creek, Marion, Newton, ips), SCIOTO & VINTON (Brow ville Townships) onstruction</pre>	<pre>\$ 33.62 \$ 24.17 \$ 38.27 , and WARREN COU Rates \$ 33.62 \$ 24.17 \$ 38.27 loomfield, Frank Townships), LAW Scioto, Sunfisk n, Knox, Madisor Rates \$ 33.62 \$ 24.17</pre>	13.40 11.32 14.42 JNTIES Fringes 13.40 11.32 14.42 klin, Hamilton, WRENCE, MEIGS, n & Union h, Vinton & Fringes

CLINTON, DARKE, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN

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(Wayne, Clear Creek & Franklin Townships)

ECTRICIAN\$ 34.: ELEC0082-006 11/28/2022 INTON, DARKE, GREENE, MIAMI, MONTGOMI Vayne, Clear Creek & Franklin Township Rate: Dund & Communication echnician Cable Puller\$ 13.: Installer/Technician\$ 26.: ELEC0129-003 02/27/2023 DRAIN (Except Columbia Township) & MED EVERPOOL TOWNSHIPS) Rate: ECTRICIAN\$ 39.: ELEC0129-004 02/27/2023 RIE & HURON (Lyme, Ridgefield, Norwall herman, Peru, Bronson, Hartland, Clarl reenfield, Fairfield, Fitchville & New Rate: ECTRICIAN\$ 39.: ELEC0141-003 09/01/2019 ELMONT COUNTY Rate: ABLE SPLICER\$ 30.: ELEC0212-003 11/26/2018 ROWN, CLERMONT & HAMILTON Rate: Dund & Communication echnician\$ 24.: Communication Communication	RY, PREBLE & WARREN	
<pre>INTON, DARKE, GREENE, MIAMI, MONTGOMI Nayne, Clear Creek & Franklin Township Rate: Dund & Communication echnician Cable Puller</pre>	os)	
Nayne, Clear Creek & Franklin Township Rate: Dund & Communication Echnician Cable Puller\$ 13.: Installer/Technician\$ 26.: ELEC0129-003 02/27/2023 DRAIN (Except Columbia Township) & MEH Everpool Townships) Rate: LECTRICIAN\$ 39.: ELEC0129-004 02/27/2023 RIE & HURON (Lyme, Ridgefield, Norwall herman, Peru, Bronson, Hartland, Clark reenfield, Fairfield, Fitchville & New Rate: LECTRICIAN\$ 39.: ELEC0141-003 09/01/2019 ELMONT COUNTY Rate: ABLE SPLICER\$ 30.4 LECTRICIAN\$ 30.5 ELEC0212-003 11/26/2018 ROWN, CLERMONT & HAMILTON Rate: Dound & Communication	os)	
Dund & Communication echnician Cable Puller\$ 13.: Installer/Technician\$ 26.: ELEC0129-003 02/27/2023 DRAIN (Except Columbia Township) & MED Everpool Townships) Rate:	Fringes	
Cable Puller\$ 13.: Installer/Technician\$ 26.: ELEC0129-003 02/27/2023 ORAIN (Except Columbia Township) & MEL Everpool Townships) Rate: .ECTRICIAN\$ 39.: ELEC0129-004 02/27/2023 RIE & HURON (Lyme, Ridgefield, Norwall reenfield, Fairfield, Fitchville & Ner Peenfield, Fairfield, Fitchville & Ner .ECTRICIAN		
ELEC0129-003 02/27/2023 DRAIN (Except Columbia Township) & MER Everpool Townships) Rates ECTRICIAN\$ 39.3 ELEC0129-004 02/27/2023 RIE & HURON (Lyme, Ridgefield, Norwall berman, Peru, Bronson, Hartland, Clarl beenfield, Fairfield, Fitchville & New Rates ECTRICIAN\$ 39.3 ELEC0141-003 09/01/2019 ELMONT COUNTY Rates ABLE SPLICER\$ 30.4 ECTRICIAN\$ 30.3 ELEC0212-003 11/26/2018 ROWN, CLERMONT & HAMILTON Rates Dund & Communication	13.89	
Rate: ECTRICIAN\$ 39.3 ELEC0129-004 02/27/2023 RIE & HURON (Lyme, Ridgefield, Norwall berman, Peru, Bronson, Hartland, Clark beenfield, Fairfield, Fitchville & New Rate: ECTRICIAN\$ 39.3 ELEC0141-003 09/01/2019 ELMONT COUNTY Rate: ABLE SPLICER\$ 30.3 ELEC0212-003 11/26/2018 ROWN, CLERMONT & HAMILTON Rate: Dund & Communication		
ECTRICIAN\$ 39.3 ELEC0129-004 02/27/2023 RIE & HURON (Lyme, Ridgefield, Norwall herman, Peru, Bronson, Hartland, Clark reenfield, Fairfield, Fitchville & New Rates ECTRICIAN\$ 39.3 ELEC0141-003 09/01/2019 ELMONT COUNTY Rates ABLE SPLICER\$ 30.4 ECTRICIAN\$ 30.3 ELEC0212-003 11/26/2018 ROWN, CLERMONT & HAMILTON Rates Dund & Communication	DINA (Litchfield &	
ELEC0129-004 02/27/2023 RIE & HURON (Lyme, Ridgefield, Norwall berman, Peru, Bronson, Hartland, Clark reenfield, Fairfield, Fitchville & New Rates ECTRICIAN\$ 39.3 ELEC0141-003 09/01/2019 ELMONT COUNTY Rates ABLE SPLICER\$ 30.4 ELEC0212-003 11/26/2018 ROWN, CLERMONT & HAMILTON Rates Dund & Communication	Fringes	
ELEC0129-004 02/27/2023 RIE & HURON (Lyme, Ridgefield, Norwall berman, Peru, Bronson, Hartland, Clark beenfield, Fairfield, Fitchville & New Rates EECTRICIAN\$ 39.3 ELEC0141-003 09/01/2019 ELMONT COUNTY Rates ABLE SPLICER\$ 30.0 ECTRICIAN\$ 30.3 ELEC0212-003 11/26/2018 ROWN, CLERMONT & HAMILTON Rates Dund & Communication		
ABLE SPLICER\$ 30.0 ELEC0141-003 09/01/2019 ELMONT COUNTY Rate: ABLE SPLICER\$ 30.0 ELEC012-003 11/26/2018 ROWN, CLERMONT & HAMILTON Rate: Dund & Communication		
ECTRICIAN\$ 39.2 ELEC0141-003 09/01/2019 ELMONT COUNTY Rate: ABLE SPLICER\$ 30.0 ECTRICIAN\$ 30.1 ELEC0212-003 11/26/2018 ROWN, CLERMONT & HAMILTON Rate: Dund & Communication		
ELEC0141-003 09/01/2019 ELMONT COUNTY Rate: ABLE SPLICER\$ 30.0 ECTRICIAN\$ 30.1 ELEC0212-003 11/26/2018 ROWN, CLERMONT & HAMILTON Rate: Dund & Communication	sfield, Norwich,	
ELEC0141-003 09/01/2019 ELMONT COUNTY Rate: ABLE SPLICER\$ 30.0 ECTRICIAN\$ 30.1 ELEC0212-003 11/26/2018 ROWN, CLERMONT & HAMILTON Rate: bund & Communication	sfield, Norwich, / London Townships)	
Rate: ABLE SPLICER\$ 30.0 ECTRICIAN\$ 30.1 ELEC0212-003 11/26/2018 ROWN, CLERMONT & HAMILTON Rate: bund & Communication	sfield, Norwich, London Townships) Fringes	
ABLE SPLICER\$ 30.0 ECTRICIAN\$ 30.3 ELEC0212-003 11/26/2018 ROWN, CLERMONT & HAMILTON Rate: bund & Communication	sfield, Norwich, London Townships) Fringes	
ECTRICIAN\$ 30.3 ELEC0212-003 11/26/2018 ROWN, CLERMONT & HAMILTON Rate: Dund & Communication	sfield, Norwich, London Townships) Fringes	
ELEC0212-003 11/26/2018 ROWN, CLERMONT & HAMILTON Rate: pund & Communication	sfield, Norwich, London Townships) Fringes	
Rate: ound & Communication	sfield, Norwich, London Townships) Fringes 10 18.30 Fringes 53 25.87 18 25.87	
ound & Communication	sfield, Norwich, London Townships) Fringes 10 18.30 Fringes 53 25.87 18 25.87	
	sfield, Norwich, London Townships) Fringes 10 18.30 Fringes 53 25.87 18 25.87	
	sfield, Norwich, London Townships) Fringes 10 18.30 Fringes 25.87 25.87	
ELEC0212-005 06/06/2022	ssfield, Norwich, London Townships) Fringes 18.30 Fringes 5 53 25.87 58 55 10.99	
ROWN, CLERMONT, and HAMILTON COUNTIES	sfield, Norwich, London Townships) Fringes 10 18.30 Fringes 25.87 25.87 25.87 Fringes	
Rate	ssfield, Norwich, London Townships) Fringes 18.30 Fringes 5 53 25.87 58 55 10.99	

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ELECTRICIAN.....\$ 33.29 21.15 -----.

ELEC0245-001 08/29/2022

ALLEN, HARDIN, VAN WERT & WYANDOT (Crawford, Jackson, Marseilles, Mifflin, Richland, Ridge & Salem Townships)

	Rates	Fringes
Line Construction Equipment Operator Groundman Truck Driver Lineman	\$ 19.35 \$ 44.22	7.00+27.25%
FOOTNOTE: a. Half day's Paid the workday prior to Christma		
ELEC0245-003 08/29/2022		
DEFIANCE, FULTON, HANCOCK, HENR PAULDING, PUTNAM, SANDUSKY, SE		
	Rates	Fringes
Line Construction Cable Splicer Groundman/Truck Driver Heli-arc Welding Dperator - Class 1 Operator - Class 2 Traffic Signal & Lighting Technician	<pre>\$ 19.35 \$ 40.76 \$ 44.22 \$ 35.38 \$ 28.32 \$ 39.80</pre>	
FOOTNOTE: a. 6 Observed Holi Day; Independence Day; Labor		

Christmas Day. Employees who work on a holiday shall be paid at a rate of double their applicable classified straight-time rates for the work performed on such holiday.

ELEC0245-004 08/29/2022

ERIE COUNTY

Rates Fringes

Line Construction		
Cable Splicer\$	49.14	26.75%+6.75
Cablesplicer\$	50.85	7.00+27.25%
Groundman/Truck Driver\$	19.35	7.00+27.25%
Lineman\$	44.22	7.00+27.25%
Operator - Class 1\$	35.38	7.00+27.25%
Operator - Class 2\$	28.32	7.00+27.25%

FOOTNOTE: a. 6 Observed Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; & Christmas Day. Employees who work on a holiday shall be paid at a rate of double their applicable classified straight-time rates for the work performed on such holiday.

ELEC0246-001 10/31/2022

	Rates	Fringes
ELECTRICIAN	\$ 40.50	84%+36.47

FOOTNOTE: a. 1 1/2 Paid Holidays: The last scheduled workday prior to Christmas & 4 hours on Good Friday.

ELEC0306-005 05/28/2018

MEDINA (Brunswick, Chatham, Granger, Guilford, Harrisville, Hinckley, Homer, Lafayette, Medina, Montville, Sharon, Spencer, Wadsworth, Westfield & York Townships), PORTAGE (Atwater, Aurora, Brimfield, Deerfield, Franklin, Mantua, Randolph, Ravenna, Rootstown, Shalersville, Streetsboro & Suffield Townships), SUMMIT & WAYNE (Baughman, Canaan, Chester, Chippewa, Congress, Green, Milton, & Wayne Townships)

	Rates	Fringes	
CABLE SPLICER	-	16.56 5%+18.06	
ELEC0317-002 05/30/2022			

GALLIA & LAWRENCE

	Rates	Fringes	
CABLE SPLICER	\$ 32.68	18.13	
ELECTRICIAN	\$ 35.85	28.25	

ELEC0540-005 12/27/2021

CARROLL (Northern half, including Fox, Harrison, Rose & Washington Townhships), COLUMBIANA (Knox Township), HOLMES, MAHONING (Smith Township), STARK, TUSCARAWAS (North of Auburn, Clay, Rush & York Townships), and WAYNE (South of Baughman, Chester, Green & Wayne Townships) COUNTIES

	Rates	Fringes
ELECTRICIAN	.\$ 35.28	22.63
ELEC0573-003 11/28/2022		

ASHTABULA (Colebrook, Wayne, Williamsfield, Orwell & Windsor Townships), GEAUGA (Auburn, Middlefield, Parkman & Troy Townships), MAHONING (Milton Township), PORTAGE (Charlestown, Edinburg, Freedom, Hiram, Nelson, Palmyra, Paris & Windham Townships), and TRUMBULL (Except Liberty & Hubbard Townships)

	Rates	Fringes
ELECTRICIAN	\$ 38.70	20.94
ELEC0575-001 11/21/2022		

ADAMS, FAYETTE, HIGHLAND, HOCKING, JACKSON (Bloomfield, Franklin, Hamilton, Jefferson, Lick, Madison, Scioto, Coal,

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Jackson, Liberty, Milton & Washington Townships), PICKAWAY (Deer Creek, Perry, Pickaway, Salt Creek & Wayne Townships), PIKE (Beaver, Benton, Jackson, Mifflin, Pebble, PeePee, Perry, Seal, Camp Creek, Newton, Scioto, Sunfish, Union & Marion Townships), ROSS, SCIOTO & VINTON (Clinton, Eagle, Elk, Harrison, Jackson, Richland & Swan Townships)

	Rates	Fringes
ELECTRICIAN	\$ 36.00	21.14
ELEC0648-001 08/29/2022		
BUTLER and WARREN COUNTIES (Deerf Massie, Salem, Turtle Creek, Unic		

	Rates	Fringes	
CABLE SPLICER		18.23	
ELECTRICIAN	\$ 33.00	21.44	
ELEC0673-004 01/01/2023			

ASHTABULA (Excluding Orwell, Colebrook, Williamsfield, Wayne & Windsor Townships), GEAUGA (Burton, Chardon, Claridon, Hambden, Huntsburg, Montville, Munson, Newbury & Thompson Townships) and LAKE COUNTIES

	Rates	Fringes
CABLE SPLICER		21.47 23.41

ELEC0683-002 05/30/2022

CHAMPAIGN, CLARK, DELAWARE, FAIRFIELD, FRANKLIN, MADISON, PICKAWAY (Circleville, Darby, Harrison, Jackson, Madison, Monroe, Muhlenberg, Scioto, Walnut & Washington Townships), and UNION COUNTIES

	Rates	Fringes
CABLE SPLICER		23.15 23.15

ELEC0688-003 05/30/2022

ASHLAND, CRAWFORD, HURON (Richmond, New Haven, Ripley & Greenwich Townships), KNOX (Liberty, Clinton, Union, Howard, Monroe, Middleberry, Morris, Wayne, Berlin, Pike, Brown & Jefferson Townships), MARION, MORROW, RICHLAND and WYANDOT (Sycamore, Crane, Eden, Pitt, Antrim & Tymochtee Townships) COUNTIES

	Rates	Fringes
ELECTRICIAN	\$ 32.30	21.83
ELEC0972-002 06/01/2021		

ATHENS, MEIGS, MONROE, MORGAN, NOBLE, VINTON (Brown, Knox, Madison, Vinton & Wilkesville Townships), and WASHINGTON COUNITES

	Rates	Fringes	
CABLE SPLICER ELECTRICIAN		27.81 27.62	

ELEC1105-001 05/30/2022

COSHOCTON, GUERNSEY, KNOX (Jackson, Clay, Morgan, Miller, Milford, Hilliar, Butler, Harrison, Pleasant & College Townships), LICKING, MUSKINGUM, PERRY, and TUSCARAWAS (Auburn, York, Clay, Jefferson, Rush, Oxford, Washington, Salem, Perry & Bucks Townships) COUNTIES

	Rates	Fringes	
ELECTRICIAN	\$ 35.25	22.18	
ENGI0018-003 05/01/2019			

ASHTABULA, CUYAHOGA, ERIE, GEAUGA, LAKE, LORAIN, MEDINA, PORTAGE, and SUMMIT COUNTIES

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1	\$ 38.63	15.20
GROUP 2	\$ 38.53	15.20
GROUP 3	\$ 37.49	15.20
GROUP 4	\$ 36.27	15.20
GROUP 5	\$ 30.98	15.20
GROUP 6	\$ 38.88	15.20
GROUP 7	\$ 39.13	15.20

OPERATING ENGINEER CLASSIFICATIONS

GROUP 1 - Air Compressor on Steel Erection; Barrier Moving Machine; Boiler Operator on Compressor or Generator when mounted on a Rig; Cableway; Combination Concrete Mixer & Tower; Concrete Plant (over 4 vd. Capacity); Concrete Pump; Crane (All Types, Including Boom Truck, Cherry Picker); Crane-Compact, Track or Rubber over 4,000 lbs. capacity; Cranes-Self Erecting, Stationary, Track or Truck (All Configurations); Derrick; Dragline; Dredge (Dipper, Clam or Suction); Elevating Grader or Euclid Loader; Floating Equipment (All Types); Gradall; Helicopter Crew (Operator-Hoist or Winch); Hoe (all types); Hoisting Engine on Shaft or Tunnel Work; Hydraulic Gantry (Lifting System); Industrial-Type Tractor; Jet Engine Dryer (D8 or D9) Diesel Tractor; Locomotive (Standard Gauge); Maintenance Operator Class A; Mixer, Paving (Single or Double Drum); Mucking Machine; Multiple Scraper; Piledriving Machine (All Types); Power Shovel; Prentice Loader; Quad 9 (Double Pusher); Rail Tamper (with auto lifting & aligning device); Refrigerating Machine (Freezer Operation); Rotary Drill, on Caisson work; Rough Terrain Fork Lift with Winch/Hoist; Side-Boom; Slip-Form Paver; Tower Derrick; Tree Shredder; Trench Machine (Over 24"" wide); Truck Mounted Concrete Pump; Tug Boat; Tunnel Machine and/or Mining Machine; Wheel

Excavator; and Asphalt Plant Engineer (Cleveland District Only).

GROUP 2 - Asphalt Paver; Automatic Subgrader Machine, Self-Propelled (CMI Type); Bobcat Type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Boring Machine More than 48""; Bulldozer; Endloader; Horizontal Directional Drill (Over 50,000 ft lbs thrust); Hydro Milling Machine; Kolman-type Loader (production type-Dirt); Lead Greaseman; Lighting & Traffic Signal Installation Equipment (includes all groups or classifications); Material Transfer Equipment (Shuttle Buggy) Asphalt; Pettibone-Rail Equipment; Power Grader; Power Scraper; Push Cat; Rotomill (all), Grinders & Planers of All types; Trench Machine (24"" wide & under); Vermeer type Concrete Saw; and Maintenance Operators (Portage and Summit Counties Only).

GROUP 3 - A-Frame; Air Compressor on Tunnel Work (low pressure); Asphalt Plant Engineer (Portage and Summit Counties Only); Bobcat-type and/or Skid Steer Loader with or without Attachments; Highway Drills (all types); Locomotive (narrow gauge); Material Hoist/Elevator; Mixer, Concrete (more than one bag capacity); Mixer, one bag capacity (Side Loader); Power Boiler (Over 15 lbs. Pressure) Pump Operator installing & operating Well Points; Pump (4"" & over discharge); Roller, Asphalt; Rotovator (lime soil stabilizer); Switch & Tie Tampers (without lifting & aligning device); Utility Operator (Small equipment); Welding Machines; and Railroad Tie Inserter/Remover; Articulating/straight bed end dumps if assigned (minus \$4.00 per hour.

GROUP 4 - Backfiller; Ballast Re-locator; Bars, Joint & Mesh Installing Machine; Batch Plant; Boring Machine Operator (48"" or less); Bull Floats; Burlap & Curing Machine; Concrete Plant (capacity 4 yd. & under); Concrete Saw (Multiple); Conveyor (Highway); Crusher; Deckhand; Farm-type Tractor with attachments (highway); Finishing Machine; Fireperson, Floating Equipment (all types); Forklift; Form Trencher; Hydro Hammer expect masonary; Hydro Seeder; Pavement Breaker; Plant Mixer; Post Driver; Post Hole Digger (Power Auger); Power Brush Burner; Power Form Handling Equipment; Road Widening Trencher; Roller (Brick, Grade & Macadam); Self-Propelled Power Spreader; Self-Propelled Power Subgrader; Steam Fireperson; Tractor (Pulling Sheepfoot, Roller or Grader); and Vibratory Compactor with Integral Power.

GROUP 5 - Compressor (Portable, Sewer, Heavy & Highway); Drum Fireperson (Asphalt Plant); Generator; Masonry Fork Lift; Inboard-Outboard Motor Boat Launch; Oil Heater (asphalt plant); Oiler/Helper; Power Driven Heater; Power Sweeper & Scrubber; Pump (under 4"" discharge); Signalperson; Tire Repairperson; VAC/ALLS; Cranes - Compact, track or rubber under 4,000 pound capacity; fueling and greasing; and Chainmen.

GROUP 6 - Master Mechanic & Boom from 150 to 180.

GROUP 7 - Boom from 180 and over.

ENGI0018-004 05/01/2019

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ADAMS, ALLEN, ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, LUCAS, MADISON, MARION, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD, and YANDOT COUNTIES

Rates Fringes

POWER EQUIPMENT OPERATOR

GROUP	1\$	37.14	15.20
GROUP	2\$	37.02	15.20
GROUP	3\$	35.98	15.20
GROUP	4\$	34.80	15.20
GROUP	5\$	29.34	15.20
GROUP	6\$	37.39	15.20
GROUP	7\$	37.64	15.20

OPERATING ENGINEER CLASSIFICATIONS

GROUP 1 - Air Compressor on Steel Erection; Barrier Moving Machine; Boiler Operator on Compressor or Generator when mounted on a Rig; Cableway; Combination Concrete Mixer & Tower; Concrete Plant (over 4 yd. Capacity); Concrete Pump; Crane (All Types, Including Boom Truck, Cherry Picker); Crane-Compact, Track or Rubber over 4,000 lbs. capacity; Cranes-Self Erecting, Stationary, Track or Truck (All Configurations); Derrick; Dragline; Dredge (Dipper, Clam or Suction); Elevating Grader or Euclid Loader; Floating Equipment (All Types); Gradall; Helicopter Crew (Operator-Hoist or Winch); Hoe (all types); Hoisting Engine on Shaft or Tunnel Work; Hydraulic Gantry (Lifting System); Industrial-Type Tractor; Jet Engine Dryer (D8 or D9) Diesel Tractor; Locomotive (Standard Gauge); Maintenance Operator Class A; Mixer, Paving (Single or Double Drum); Mucking Machine; Multiple Scraper; Piledriving Machine (All Types); Power Shovel; Prentice Loader; Quad 9 (Double Pusher); Rail Tamper (with auto lifting & aligning device); Refrigerating Machine (Freezer Operation); Rotary Drill, on Caisson work; Rough Terrain Fork Lift with Winch/Hoist; Side-Boom; Slip-Form Paver; Tower Derrick; Tree Shredder; Trench Machine (Over 24"" wide); Truck Mounted Concrete Pump; Tug Boat; Tunnel Machine and/or Mining Machine; and Wheel Excavator.

GROUP 2 - Asphalt Paver; Automatic Subgrader Machine, Self-Propelled (CMI Type); Bobcat Type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Boring Machine More than 48""; Bulldozer; Endloader; Hydro Milling Machine; Horizontal Directional Drill (over 50,000 ft. lbs. thrust);Kolman-type Loader (production type-Dirt); Lead Greaseman; Lighting & Traffic Signal Installation Equipment (includes all groups or classifications); Material Transfer Equipment (Shuttle Buggy) Asphalt; Pettibone-Rail Equipment; Power Grader; Power Scraper; Push Cat; Rotomill (all), Grinders & Planers of All types; Trench Machine (24"" wide & under); and Vermeer type Concrete Saw.

GROUP 3 - A-Frame; Air Compressor on Tunnel Work (low pressure); Asphalt Plant Engineer; Bobcat-type and/or Skid Steer Loader with or without Attachments; Highway Drills (all types); Locomotive (narrow gauge); Material Hoist/Elevator; Mixer, Concrete (more than one bag capacity); Mixer, one bag capacity (Side Loader); Power Boiler (Over 15 lbs. Pressure) Pump Operator installing & operating Well Points; Pump (4"" & over discharge); Railroad Tie Inserter/Remover; Roller, Asphalt; Rotovator (lime soil stabilizer); Switch & Tie Tampers (without lifting & aligning device); Utility Operator (Small equipment); and Welding Machines; Artiaculating/straight bed end dumps if assigned (minus \$4.00 per hour.

GROUP 4 - Backfiller; Ballast Re-locator; Bars, Joint & Mesh Installing Machine; Batch Plant; Boring Machine Operator (48"" or less); Bull Floats; Burlap & Curing Machine; Concrete Plant (capacity 4 yd. & under); Concrete Saw (Multiple); Conveyor (Highway); Crusher; Deckhand; Farm-type Tractor with attachments (highway); Finishing Machine; Fireperson, Floating Equipment (all types); Fork Lift; Form Trencher; Hydro Hammer expect masonary; Hydro Seeder; Pavement Breaker; Plant Mixer; Post Driver; Post Hole Digger (Power Auger); Power Brush Burner; Power Form Handling Equipment; Road Widening Trencher; Roller (Brick, Grade & Macadam); Self-Propelled Power Spreader; Self-Propelled Power Subgrader; Steam Fireperson; Tractor (Pulling Sheepfoot, Roller or Grader); and Vibratory Compactor with Integral Power.

GROUP 5 - Compressor (Portable, Sewer, Heavy & Highway); Drum Fireperson (Asphalt Plant); Generator; Masonary Forklift; Inboard-Outboard Motor Boat Launch; Oil Heater (asphalt plant); Oiler/Helper; Power Driven Heater; Power Sweeper & Scrubber; Pump (under 4"" discharge); Signalperson; Tire Repairperson; VAC/ALLS; Cranes - Compact, track or rubber under 4,000 pound capacity; fueling and greasing; and Chainmen.

GROUP 6 - Master Mechanic & Boom from 150 to 180.

GROUP 7 - Boom from 180 and over.

ENGI0066-023 06/01/2017

COLUMBIANA, MAHONING & TRUMBULL COUNTIES

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
ASBESTOS; HAZARDOUS/TOXIC		
WASTE PROJECTS	¢ 20 22	10
GROUP 1 - A & B		19.66
ASBESTOS; HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 2 - A & B	\$ 38 90	19.66
ASBESTOS; HAZARDOUS/TOXIC		19:00
WASTE PROJECTS		
GROUP 3 - A & B	\$ 34.64	19.66
ASBESTOS; HAZARDOUS/TOXIC		
WASTE PROJECTS		
GROUP 4 - A & B	.\$ 30.70	19.66
ASBESTOS; HAZARDOUS/TOXIC		
WASTE PROJECTS		

23, 11:16 AM		SAM.gov
GROUP 5 - A & B\$ HAZARDOUS/TOXIC WASTE PROJECTS	27.30	19.66
GROUP 1 - C & D\$ HAZARDOUS/TOXIC WASTE PROJECTS	35.96	19.66
GROUP 2 - C & D\$ HAZARDOUS/TOXIC WASTE PROJECTS	35.66	19.66
GROUP 3 - C & D\$ HAZARDOUS/TOXIC WASTE PROJECTS	31.76	19.66
GROUP 4 - C & D\$ HAZARDOUS/TOXIC WASTE PROJECTS	5 28.14	19.66
GROUP 5 - C & D\$ ALL OTHER WORK	25.03	19.66
GROUP 1\$ ALL OTHER WORK	32.69	19.66
GROUP 2\$ ALL OTHER WORK	32.42	19.66
GROUP 3\$	28.87	19.66
GROUP 4\$ ALL OTHER WORK	25.58	19.66
GROUP 5\$	22.75	19.66

5/24/23

GROUP 1 - Rig, Pile Driver or Caisson Type; & Rig, Pile Hydraulic Unit Attached

GROUP 2 - Asphalt Heater Planer; Backfiller with Drag Attachment; Backhoe; Backhoe with

Shear attached; Backhoe-Rear Pivotal Swing; Batch Plant-Central Mix Concrete; Batch Plant, Portable concrete; Berm Builder-Automatic; Boat Derrick; Boat-Tug; Boring Machine Attached to Tractor; Bullclam; Bulldozer; C.M.I. Road Builder & Similar Type; Cable Placer & Layer; Carrier-Straddle; Carryall-Scraper or Scoop; Chicago Boom; Compactor with Blade Attached; Concrete Saw (Vermeer or similar type); Concrete Spreader Finisher; Combination, Bidwell Machine; Crane; Crane-Electric Overhead; Crane-Rough Terrain; Crane-Side Boom; Crane-Truck; Crane-Tower; Derrick-Boom; Derrick-Car; Digger-Wheel (Not trencher or road widener); Double Nine; Drag Line; Dredge; Drill-Kenny or Similar Type; Easy Pour Median Barrier Machine (or similar type); Electromatic; Frankie Pile; Gradall; Grader; Gurry; Self-Propelled; Heavy Equipment Robotics Operator/Mechanic; Hoist-Monorail; Hoist-Stationary & Mobile Tractor; Hoist, 2 or 3 drum; Horizontal Directional Drill Operator; Jackall; Jumbo Machine; Kocal & Kuhlman; Land-Seagoing Vehicle; Loader, Elevating; Loader, Front End; Loader, Skid Steer; Locomotive; Mechanic/Welder; Metro Chip Harvester with Boom; Mucking Machine; Paver-Asphalt Finishing Machine; Paver-Road Concrete; Paver-Slip Form (C.M.I. or similar); Place Crete Machine with Boom; Post Driver (Carrier mounted); Power Driven Hydraulic Pump & Jack (When used in Slip Form or Lift Slab Construction); Pump Crete Machine; Regulator-Ballast; Hydraulic Power Unit not attached to Rig for Pile Drillings; Rigs-Drilling; Roto Mill or similar Full Lane (8' Wide & Over); Roto Mill or similar type (Under 8'); Shovel; Slip Form Curb Machine; Speedwing; Spikemaster; Stonecrusher; Tie Puller & Loader; Tie Tamper; Tractor-Double Boom; Tractor with Attachments; Truck-Boom; Truck-Tire; Trench Machine; Tunnel Machine (Mark 21 Java

or similar); & Whirley (or similar type)

GROUP 3 - Asphalt Plant; Bending Machine (Pipeline or similar type); Boring machine, Motor Driven; Chip Harvester without Boom; Cleaning Machine, Pipeline Type; Coating Machine, Pipeline Type; Compactor; Concrete Belt Placer; Concrete Finisher; Concrete Planer or Asphalt; Concrete Spreader; Elevator; Fork Lift (Home building only); Fork lift & Lulls; Fork Lift Walk Behind (Hoisting over 1 buck high); Form Line Machine; Grease Truck operator; Grout Pump; Gunnite Machine; Horizontal Directional Drill Locator; Single Drum Hoist with or without Tower; Huck Bolting Machine; Hydraulic Scaffold (Hoisting building materials); Paving Breaker (Self-propelled or Ridden); Pipe Dream; Pot Fireperson (Power Agitated); Refrigeration Plant; Road Widener; Roller; Sasgen Derrick; Seeding Machine; Soil Stabilizer (Pump type); Spray Cure Machine, Self-Propelled; Straw Blower Machine; Sub-Grader; Tube Finisher or Broom C.M.I. or similar type; & Tugger Hoist

GROUP 4 - Air Curtain Destructor & Similar Type; Batch Plant-Job Related; Boiler Operator; Compressor; Conveyor; Curb Builder, self-propelled; Drill Wagon; Generator Set; Generator-Steam; Heater-Portable Power; Hydraulic Manipulator Crane; Jack-Hydraulic Power driven; Jack-Hydraulic (Railroad); Ladavator; Minor Machine Operator; Mixer-Concrete; Mulching Machine; Pin Puller; Power Broom; Pulverizer; Pump; Road Finishing Machine (Pull Type); Saw-Concrete-Self-Propelled (Highway Work); Signal Person; Spray Cure Machine-Motor Powered; Stump Cutter; Tractor; Trencher Form; Water Blaster; Steam Jenny; Syphon; Vibrator-Gasoline; & Welding Machine

GROUP 5 - Brakeperson; Fireperson; & Oiler

IRON0017-002 05/01/2022

ASHTABULA (North of Route 6, starting at the Geauga County Line, proceeding east to State Route 45), CUYAHOGA, ERIE (Eastern 2/3), GEAUGA, HURON (East of a line drawn from the north border through Monroeville & Willard), LAKE, LORAIN, MEDINA (North of Old Rte. #224), PORTAGE (West of a line from Middlefield to Shalersville to Deerfield), and SUMMIT (North of Old Rte. #224, including city limits of Barberton) COUNTIES

Rates Fringes IRONWORKER Ornamental, Reinforcing, & Structural.....\$ 34.33 27.51

IRON0017-010 05/01/2022

ASHTABULA (Eastern part from Lake Erie on the north to route #322 on the south to include Conneaut, Kingsville, Sheffield, Denmark, Dorset, Cherry Valley, Wayne, Monroe, Pierpont, Richmond, Andover & Williamsfield Townships)

Rates Fringes

IRONWORKER Structural, including

metal building erection	on &	
Reinforcing	\$ 34.33	27.51

IRON0044-001 06/01/2022

ADAMS (Western Part), BROWN, BUTLER (Southern Part), CLERMONT, CLINTON (South of a line drawn from Blanchester to Lynchburg), HAMILTON, HIGHLAND (Excluding eastern one-fifth & portion of county inside lines drawn from Marshall to Lynchburg from the northern county line through E. Monroe to Marshall) and WARREN (South of a line drawn from Blanchester through Morrow to the west county line) COUNTIES

	Rates	Fringes
IRONWORKER, REINFORCING Beyond 30-mile radius of	\$ 32.37	22.30
Hamilton County Courthouse Up to & including 30-mile radius of Hamilton County	\$ 28.67	21.20
Courthouse	\$ 27.60	20.70

IRON0044-002 06/01/2022

CLINTON (South of a line drawn from Blanchester to Lynchburg), HAMILTON, HIGHLAND (Excluding eastern one-fifth & portion of county inside lines drawn from Marshall to Lynchburg from the northern county line through E. Monroe to Marshall) & WARREN (South of a line drawn from Blanchester through Morrow to the west county line)

	Rates	Fringes	
IRONWORKER			
Fence Erector	\$ 30.28	22.30	
Ornamental; Structural	\$ 31.87	22.30	

* IRON0055-003 07/01/2022

CRAWFORD (Area Between lines drawn from where Hwy #598 & #30 meet through N. Liberty to the northern border & from said Hwy junction point due west to the border), DEFIANCE (S. of a line drawn from where Rte. #66 meets the northern line through Independence to the eastern county border), ERIE (Western 1/3), FULTON, HANCOCK, HARDIN (North of a line drawn from Maysville to a point 4 miles south of the northern line on the eastern line), HENRY, HURON (West of a line drawn from the northern border through Monroeville & Willard), LUCAS, OTTAWA, PUTNAM (East of a line drawn from the northern border down through Miller City to where #696 meets the southern border), SANDUSKY, SENECA, WILLIAMS (East of a line drawn from Pioneer through Stryker to the southern border), WOOD & WYANDOT (North of Rte. #30)

	Rates	Fringes
		•
IRONWORKER		
Fence Erector	5 24.60	22.87
Flat Road Mesh	\$ 29.77	21.30
Tunnels & Caissons Under		
Pressure	\$ 29.77	21.30
All Other Work	\$ 31.25	26.90

IRON0147-002 06/01/2022

ALLEN (Northern half), DEFIANCE (Northern part, excluding south of a line drawn from where Rte. #66 meets the northern line through Independence to the eastern county border), MERCER (Northern half), PAULDING, PUTNAM (Western part, excluding east of a line drawn from the northern border down through Miller City to where #696 meets the southern border), VAN WERT, and WILLIAMS (Western part, excluding east of a line drawn from Pioneer through Stryker to the southern border) COUNTIES

	Rates	Fringes
IRONWORKER	\$ 31.20	28.47

IRON0172-002 06/01/2022

CHAMPAIGN (Eastern one-third), CLARK (Eastern one-fourth), COSHOCTON (West of a line beginning at the northwestern county line going through Walhonding & Tunnel Hill to the southern county line), CRAWFORD (South of Rte. #30), DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HARDIN (Excluding a line drawn from Roundhead to Maysville), HIGHLAND (Eastern one-fifth), HOCKING, JACKSON (Northern half), KNOX, LICKING, LOGAN (Eastern one-third), MADISON, MARION, MORROW, MUSKINGUM (West of a line starting at Adams Mill going to Adamsville & going from Adamsville through Blue Rock to the southern border), PERRY, PICKAWAY, PIKE (Northern half), ROSS, UNION, VINTON and WYANDOT (South of Rte. #30) COUNTIES

	Rates	Fringes	
IRONWORKER	\$ 33.27	21.20	
IRON0207-004 06/01/2022			

ASHTABULA (Southern part starting at the Geauga County line), COLUMBIANA (E. of a line from Damascus to Highlandtown), MAHONING (N. of Old Route #224), PORTAGE (E. of a line from Middlefield to Shalersville to Deerfield) & TRUMBULL

	Rates	Fringes
IRONWORKER		
Layout; Sheeter Ornamental; Reinforcing;	\$ 32.92	26.26
Structural	\$ 31.92	26.26
Ornamental; Reinforcing		25.61

IRON0290-002 06/01/2022

ALLEN (Southern half), AUGLAIZE, BUTLER (North of a line drawn from east to the west county line going through Oxford, Darrtown & Woodsdale), CHAMPAIGN (Excluding east of a line drawn from Catawla to the point where #68 intersects the northern county line), CLARK (Western two-thirds), CLINTON (Excluding south of a line drawn from Blanchester to Lynchburg), DARKE, GREENE, HIGHLAND (Inside lines drawn from Marshall to Lynchburg & from the northern county line through East Monroe to Marshall), LOGAN (West of a line drawn from West Liberty to where the northern county line meets the western county line of Hardin), MERCER (Southern half), MIAMI, MONTGOMERY, PREBLE, SHELBY & WARREN (Excluding south of a line drawn from Blanchester through Morrow to the western county line) COUNTIES

	Rates	Fringes
IRONWORKER		23.85
IRON0549-003 12/01/2022		
BELMONT, GUERNSEY, HARRISON, JEF (Excluding portion west of a lir to Adamsville and going from Ada the south border)	ne startin	g at Adams Mill going
	Rates	Fringes
IRONWORKER		25.66
IRON0550-004 05/01/2022		
ASHLAND, CARROLL, COLUMBIANA (W. Highlandtown), COSHOCTON (E. of going through Walhonding & Tunne HOLMES, HURON (S. of Old Rte. #2 #224), MEDINA (S. of Old Rte. #2 #224), RICHLAND, STARK, SUMMIT (city limits of Barberton), TUSCA	a line be al Hill to 224), MAHO 224), PORT (S. of Old	ginning at NW Co. line the South Co. line), NING (S. of Old Rte. AGE (S. of Old Rte. Rte. #224, Excluding
	Rates	Fringes
Ironworkers:Structural, Ornamental and Reinforcing		
IRON0769-004 06/01/2022		
ADAMS (Eastern Half), GALLIA, JA & SCIOTO	ACKSON (So	uthern Half), LAWRENCE
	Rates	Fringes
IRONWORKER IRON0787-003 06/01/2022		27.69
ATHENS, MEIGS, MORGAN, NOBLE, ar	nd WASHING	TON COUNTIES
	Rates	Fringes
IRONWORKER	-	23.75
LAB00265-008 05/01/2022		
	Rates	Fringes
LABORER ASHTABULA, ERIE, HURON, LORAIN, LUCAS, MAHONING, MEDINA OTTAWA DOBTAGE		

SANDUSKY, STARK, SUMMIT,

PORTAGE,

MEDINA, OTTAWA,

TRUMBULL & WOOD COUNTIES	
GROUP 1\$ 34.95	12.10
GROUP 2\$ 35.12	12.10
GROUP 3\$ 35.45	12.10
GROUP 4\$ 35.90	12.10
CUYAHOGA AND GEAUGA	
COUNTIES ONLY: SEWAGE	
PLANTS, WASTE PLANTS,	
WATER TREATMENT	
FACILITIES, PUMPING	
STATIONS, & ETHANOL PLANTS	
CONSTRUCTION\$ 37.56	12.10
CUYAHOGA, GEAUGA & LAKE	
COUNTIES	
GROUP 1\$ 36.18	12.10
GROUP 2\$ 36.35	12.10
GROUP 3\$ 36.68	12.10
GROUP 4\$ 37.13	12.10
REMAINING COUNTIES OF OHIO	
GROUP 1\$ 34.52	12.10
GROUP 2\$ 34.69	12.10
GROUP 3\$ 35.02	12.10
GROUP 4\$ 35.47	12.10

LABORER CLASSIFICATIONS

GROUP 1 - Asphalt Laborer; Carpenter Tender; Concrete Curing Applicator; Dump Man (Batch Truck); Guardrail and Fence Installer; Joint Setter; Laborer (Construction); Landscape Laborer; Mesh Handlers & Placer; Right-of-way Laborer; Riprap Laborer & Grouter; Scaffold Erector; Seal Coating; Surface Treatment or Road Mix Laborer; Sign Installer; Slurry Seal; Utility Man; Bridge Man; Handyman; Waterproofing Laborer; Flagperson; Hazardous Waste (level D); Diver Tender; Zone Person & Traffic Control

GROUP 2 - Asphalt Raker; Concrete Puddler; Kettle Man Pipeline); Machine Driven Tools (Gas, Electric, Air); Mason Tender; Brick Paver; Mortar Mixer; Power Buggy or Power Wheelbarrow; Paint Striper; Sheeting & Shoring Man; Surface Grinder Man; Plastic Fusing Machine Operator; Pug Mill Operator; & Vacuum Devices (wet or dry); Rodding Machine Operator; Diver; Screwman or Paver; Screed Person; Water Blast, Hand Held Wand; Pumps 4"" & Under (Gas, Air or Electric) & Hazardous Waste (level C); Air Track and Wagon Drill; Bottom Person; Cofferdam (below 25 ft. deep); Concrete Saw Person; Cutting with Burning Torch; Form Setter; Hand Spiker (Railroad); Pipelayer; Tunnel Laborer (without air) & Caisson; Underground Person (working in Sewer and Waterline, Cleaning, Repairing & Reconditioning); Sandblaster Nozzle Person; & Hazardous Waste (level B)

GROUP 3 - Blaster; Mucker; Powder Person; Top Lander; Wrencher (Mechanical Joints & Utility Pipeline); Yarner; Hazardous Waste (level A); Concrete Specialist; Concrete Crew in Tunnels (With Air-pressurized - \$1.00 premium); Curb Setter & Cutter; Grade Checker; Utility Pipeline Tapper; Waterline; and Caulker

GROUP 4 - Miner (With Air-pressurized - \$1.00 premium); & Gunite Nozzle Person

TUNNEL LABORER WITH AIR-PRESSURIZED ADD \$1.00 TO BASE RATE

SIGNAL PERSON WILL RECEIVE THE RATE EQUAL TO THE RATE PAID

THE LABORER CLASSIFICATION FOR WHICH HE OR SHE IS SIGNALING.

PAIN0006-002 05/01/2018

ASHTABULA, CUYAHOGA, GEAUGA, LAKE, LORAIN, PORTAGE (N. of the East-West Turnpike) & SUMMIT (N. of the East-West Turnpike)

	Rates	Fringes	
PAINTER			
COMMERCIAL NEW WORK;			
REMODELING; & RENOVATIONS			
GROUP 1		16.16	
GROUP 2 GROUP 3		16.16 16.16	
GROUP 4		16.16	
COMMERCIAL REPAINT	φ 3 4.10	10.10	
GROUP 1	\$ 26.40	16.16	
GROUP 2		16.16	
GROUP 3	\$ 27.10	16.16	
PAINTER CLASSIFICATIONS - COMME RENOVATIONS	ERCIAL NEW WORK;	REMODELING; &	
GROUP 1 - Brush; & Roller			
GROUP 2 - Sandblasting & Buffing			
GROUP 3 - Spray Painting; Closed Steel Above 55 feet; Bridges & Open Structural Steel; Tanks - Water Towers; Bridge Painters; Bridge Riggers; Containment Builders			
GROUP 4 - Bridge Blaster			
PAINTER CLASSIFICATIONS - COMMERC	CIAL REPAINT		
GROUP 1 - Brush; & Roller			
GROUP 2 - Sandblasting & Buffing			
GROUP 3 - Spray Painting			
PAIN0007-002 07/01/2021			
FULTON, HENRY, LUCAS, OTTAWA (Exc Catawba Island, Clay Center, Cur Elliston, Elmore, Erie, Fishback,	rtice, Danbury,	Eagle Beach,	
	Rates	Fringes	
PAINTER			

AINTER	
NEW COMMERCIAL WORK	
GROUP 1\$ 28.74	18.77
GROUP 2\$ 28.74	18.77
GROUP 3\$ 28.74	18.77
GROUP 4\$ 28.74	18.77
GROUP 5\$ 28.74	18.77
GROUP 6\$ 28.74	18.77
GROUP 7\$ 28.74	18.77
GROUP 8\$ 28.74	18.77
GROUP 9\$ 28.74	18.77

https://sam.gov/wage-determination/OH20230001/3

REPAINT IS 90% OF JR

PAINTER CLASSIFICATIONS

GROUP 1 - Brush; Spray & Sandblasting Pot Tender

GROUP 2 - Refineries & Refinery Tanks; Surfaces 30 ft. or over where material is applied to or labor performed on above ground level (exterior), floor level (interior)

GROUP 3 - Swing Stage & Chair

GROUP 4 - Lead Abatement

GROUP 5 - All Methods of Spray

GROUP 6 - Solvent-Based Catalized Epoxy Materials of 2 or More Component Materials, to include Solvent-Based Conversion Varnish (excluding water based)

GROUP 7 - Spray Solvent Based Material; Sand & Abrasive Blasting

GROUP 8 - Towers; Tanks; Bridges; Stacks Over 30 Feet

GROUP 9 - Epoxy Spray (excluding water based)

PAIN0012-008 05/01/2019

BUTLER COUNTY

		Rates	Fringes
PAINTER			
GROUP	1	\$ 21.95	10.20
GROUP	2	\$ 25.30	10.20
GROUP	3	\$ 25.80	10.20
GROUP	4	\$ 26.05	10.20
GROUP	5	\$ 26.30	10.20

PAINTER CLASSIFICATIONS

GROUP 1: Bridge Equipment Tender; Bridge/Containment Builder

GROUP 2: Brush & Roller

GROUP 3: Spray

GROUP 4: Sandblasting; & Waterblasting

GROUP 5: Elevated Tanks; Steeplejack Work; Bridge; & Lead Abatement

PAIN0012-010 05/01/2019

BROWN, CLERMONT, CLINTON, HAMILTON & WARREN

Rates

Fringes

PAINTER

HEAVY & HIGHWAY BRIDGES-

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GUARDRAILS-LIGHTPOLES- STRIPING		
Bridge Equipment Tender and Containment Builder\$ Bridges when highest point of clearance is 60	21.95	10.20
feet or more; & Lead Abatement Projects\$	26 30	10.20
Brush & Roller\$	25.30	10.20
Sandblasting & Hopper		
Tender; Water Blasting\$		10.20
Spray\$		
PAIN0093-001 12/01/2022		
ATHENS, GUERNSEY, HOCKING, MONROE, WASHINGTON COUNTIES	MORGAN, NOBLE	and
	Rates	Fringes
PAINTER		
Bridges; Locks; Dams;		
Tension Towers; & Energized Substations\$	D/ 01	22.47
Power Generating Facilities.\$	31.66	
PAIN0249-002 06/01/2020		
CLARK, DARKE, GREENE, MIAMI, MONTG	OMERY & PREBLE	
	Rates	Fringes
PAINTER GROUP 1 - Brush & Roller\$ GROUP 2 - Swing, Scaffold Bridges; Structural Steel; Open Acid Tank; High	24.17	11.22
Tension Electrical		
Equipment; & Hot Pipes\$ GROUP 3 - Spray;	24.17	11.22
Sandblast; Steamclean; Lead Abatement\$	2/ 92	11.22
GROUP 4 - Steeplejack Work\$		11.22
GROUP 5 - Coal Tar\$		11.22
GROUP 6 - Bridge Equipment Tender & or Containment		
Builder\$	32.88	11.22
GROUP 7 - Tanks, Stacks &		
Towers\$	27.81	11.22
GROUP 8 - Bridge Blaster, Rigger\$	35.88	11.22
PAIN0356-002 09/01/2009		
KNOX, LICKING, MUSKINGUM, and PERR	Y	
	Rates	Fringes
PAINTER		
Bridge Equipment Tenders		
and Containment Builders\$	27.93	7.25
Bridges; Blasters; andRiggers\$	34 60	7.25
Brush and Roller\$		7.25

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Sandblasting; Steam Cleaning; Waterblasting; and Hazardous Work\$ 25.82	7.25
Spray\$ 21.40 Structural Steel and Swing Stage\$ 25.42 Tanks; Stacks; and Towers\$ 28.63	7.25 7.25 7.25
PAIN0438-002 12/01/2021	
BELMONT, HARRISON and JEFFERSON COUNTIES	
Rates	Fringes
PAINTER Bridges, Locks, Dams, Tension Towers & Energized Substations\$ 34.44 Power Generating Facilities.\$ 32.29	18.19 18.19
PAIN0476-001 06/01/2021	
COLUMBIANA, MAHONING, and TRUMBULL COUNITES	
Rates	Fringes
PAINTER GROUP 1\$ 25.79 GROUP 2\$ 33.10 GROUP 3\$ 26.00 GROUP 4\$ 27.12 GROUP 5\$ 27.79 GROUP 6\$ 26.69 GROUP 7\$ 27.79	15.81 15.81 15.81 15.81 15.81 15.81 15.81
PAINTER CLASSIFICATIONS:	
GROUP 1: Painters, Brush & Roller	
GROUP 2: Bridges	
GROUP 3: Structural Steel	
GROUP 4: Spray, Except Bar Joist/Deck	
GROUP 5: Epoxy/Mastic; Spray- Bar Joist/Deck; 50 Feet; and Swingstages	Working Above
GROUP 6: Tanks; Sandblasting	
GROUP 7: Towers; Stacks	
PAIN0555-002 06/01/2021	
ADAMS, HIGHLAND, JACKSON, PIKE & SCIOTO	
Rates	Fringes
PAINTER GROUP 1\$ 31.95 GROUP 2\$ 33.47 GROUP 3\$ 34.99 GROUP 4\$ 37.97	17.05 17.05 17.05 17.05

PAINTER CLASSIFICATIONS GROUP 1 - Containment Builder GROUP 2 - Brush; Roller; Power Tools, Under 40 feet GROUP 3 - Sand Blasting; Spray; Steam Cleaning; Pressure Washing; Epoxy & Two Component Materials; Lead Abatement; Hazardous Waste; Toxic Materials; Bulk & Storage Tanks of 25,000 Gallon Capacity or More; Elevated Tanks GROUP 4 - Stacks; Bridges -----PAIN0639-001 05/01/2011 Rates Fringes Sign Painter & Erector.....\$ 20.61 3.50+a+b+c FOOTNOTES: a. 7 Paid Holidays: New Year's Day; Memorial Day; July 4th; Labor Day; Thanksgiving Day; Christmas Day & 1 Floating Day b. Vacation Pay: After 1 year's service - 5 days' paid vacation; After 2, but less than 10 years' service - 10 days' paid vacation; After 10, but less than 20 years' service - 15 days' paid vacation; After 20 years' service -20 days' paid vacation c. Funeral leave up to 3 days maximum paid leave for death of mother, father, brother, sister, spouse, child, mother-in-law, father-in-law, grandparent and inlaw provided employee attends funeral _____ PAIN0788-002 06/01/2022 ASHLAND, CRAWFORD, ERIE, HANCOCK, HURON, MARION, MORROW, OTTAWA (Allen, Bay, Bono, Catawba Island, Clay Center, Curtice, Danbury, Eagle Beach, Elliston, Elmore, Erie, Fishback, Gem Beach & Genoa), RICHLAND, SANDUSKY, SENECA & WYANDOT Rates Fringes PAINTER Brush & Roller.....\$ 25.08 16.72 Structural Steel.....\$ 26.68 16.72 WINTER REPAINT: Between December 1 to March 31 - 90%JR \$.50 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK: While working swingstage, boatswain chair, needle beam and horizontal cable. While operating sprayguns, sandblasting, cobblasting and high pressure waterblasting (4000psi). \$1.00 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK: For the application of catalized epoxy, including latex epoxy that is deemed hazardous, lead abatement, or for work or material where special precautions beyond normal work

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towers over 40 feet in height.

duties must be taken. For working on stacks, tanks, and

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PAIN0813-005 12/01/2008

GALLIA, LAWRENCE, MEIGS & VINTON

	Rates	Fringes	
PAINTER			
Base Rate Bridges, Locks, Dams &	\$ 24.83	10.00	
Tension Towers	\$ 27.83	10.00	_

PAIN0841-001 06/01/2018

MEDINA, PORTAGE (South of and including Ohio Turnpike), and SUMMIT (South of and including Ohio Turnpike) COUNTIES

	Rat	es	Fringes
Deinterer			
Painters:			
	1\$ 25		14.35
GROUP	2\$ 26	.40	14.35
GROUP	3\$ 26	.50	14.35
GROUP	4\$ 26	.60	14.35
GROUP	5\$ 27	.00	14.35
	6\$ 39		11.75
GROUP	7\$ 27	.00	14.35

PAINTER CLASSIFICATIONS:

GROUP 1 - Brush, Roller & Paperhanger

GROUP 2 - Epoxy Application

GROUP 3 - Swing Scaffold, Bosum Chair, & Window Jack

GROUP 4 - Spray Gun Operator of Any & All Coatings

GROUP 5 - Sandblast, Painting of Standpipes, etc. from Scaffolds, Bridge Work and/or Open Structural Steel, Standpipes and/or Water Towers

GROUP 6 - Public & Commerce Transportation, Steel or Galvanized, Bridges, Tunnels & Related Support Items (concrete)

GROUP 7 - Synthetic Exterior, Drywall Finisher and/or Taper, Drywall Finisher and Follow-up Man Using Automatic Tools

PAIN0841-002 06/01/2022

CARROLL, COSHOCTON, HOLMES, STARK, TUSCARAWAS & WAYNE

Rates	Fringes
-------	---------

PAINTER	
Bridges; Towers, Poles &	
Stacks; Sandblasting	
Steel; Structural Steel &	
Metalizing\$ 23.50	15.45
Brush & Roller\$ 28.18	15.45
Spray; Tank Interior &	

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Exterior.....\$ 23.50 15.45

PAIN1020-002 06/01/2022

ALLEN, AUGLAIZE, CHAMPAIGN, DEFIANCE, HARDIN, LOGAN, MERCER, PAULDING, PUTNAM, SHELBY, VAN WERT, and WILLIAMS COUNTIES

	Rates	Fringes
PAINTER		
Brush & Roller	\$ 26.20	15.00
Drywall Finishing & Taping	\$ 24.90	15.00
Lead Abatement	\$ 27.95	15.00
Spray, Sandblasting		
Pressure Cleaning, &		
Refinery	\$ 26.95	15.00
Swing Stage, Chair,		
Spiders, & Cherry Pickers		15.00
Wallcoverings	\$ 23.80	15.00
All surfaces 40 ft. or over whe labor performed on, above groun level (interior) - \$.50 premium	d level (exteri	
Applying Coal Tar Products - \$1.0	0 premium	
PAIN1275-002 06/01/2020		

DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, MADISON, PICKAWAY, ROSS & UNION

I	Rates	Fringes
PAINTER		
Bridges\$	34.64	14.40
Brush; Roller\$	25.16	14.40
Sandblasting;		
Steamcleaning;		
Waterblasting (3500 PSI or		
Over)& Hazardous Work\$	25.86	14.40
Spray\$	25.66	14.40
Stacks; Tanks; & Towers\$	28.67	14.40
Structural Steel & Swing		
Stage\$	25.46	14.40

PLAS0109-001 05/01/2018

MEDINA, PORTAGE, STARK, and SUMMIT COUNTIES

	Rates	Fringes
PLASTERER	.\$ 28.86	17.11
PLAS0109-003 05/01/2018		
CARROLL, HOLMES, TUSCARAWAS, and WAYNE COUNT		
	Rates	Fringes
PLASTERER	.\$ 28.21	17.11

PLAS0132-002 06/01/2022

	Rates	Fringes
		-
PLASTERER		14.69
PLAS0404-002 05/01/2018		
ASHTABULA, CUYAHOGA, GEAUGA,		
	Rates	Fringes
PLASTERER	\$ 29.63	17.11
PLAS0404-003 05/01/2018		
LORAIN COUNTY		
	Rates	Fringes
PLASTERER	\$ 28.86	17.11
PLAS0526-022 05/01/2018		
COLUMBIANA, MAHONING, and 1	TRUMBULL COUNTIES	
	Rates	Fringes
PLASTERER	\$ 28.86	17.11
PLAS0526-023 05/01/2018		
BELMONT, HARRISON, and JEFFE	ERSON COUNTIES	
		Fringes
PLASTERER		17.11
PLAS0886-001 05/01/2018		
FULTON, HANCOCK, HENRY, LUCA	AS PUTNAM and W	
DETONS TRACOCKS TENNES LUCP		Fringes
PLASTERER		-
		17.11
PLAS0886-003 05/01/2018		
DEFIANCE, ERIE, HURON, OTTAU COUNTIES	NA, PAULDING, SAN	DUSKY, and SENECA
	Rates	Fringes
PLASTERER	\$ 28.86	17.11
PLAS0886-004 05/01/2018		
ALLEN, AUGLAIZE, HARDIN, LOO	GAN, MERCER, and	VAN WERT COUNTIES
	Rates	Fringes
PLASTERER		-

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PLUM0042-002 07/01/2022

ASHLAND, CRAWFORD, ERIE, HURON, KNOX, LORAIN, MORROW, RICHLAND & WYANDOT

	Rates	Fringes
Plumber, Pipefitter, Steamfitter	-	25.47
PLUM0050-002 07/04/2022		
DEFIANCE, FULTON, HANCOCK, HENRY PUTNAM, SANDUSKY, SENECA, WILLIA		, PAULDING,
	Rates	Fringes
Plumber, Pipefitter, Steamfitter	.\$ 44.60	28.51
PLUM0055-003 05/01/2022		
ASHTABULA, CUYAHOGA, GEAUGA, LAW Smith Road) & SUMMIT (N. of Rte. limits of the city of Hudson)		
	Rates	Fringes
PLUMBER PLUM0083-001 07/01/2017	.\$ 40.00	28.43
BELMONT & MONROE (North of Rte.	#78)	
	Rates	Fringes
Plumber and Steamfitter	.\$ 32.16	31.51
PLUM0094-002 05/01/2022		
CARROLL (Northen Half), STARK, a	and WAYNE COUNT	IES
	Rates	Fringes
PLUMBER/PIPEFITTER		22.99
PLUM0120-002 05/02/2022		
ASHTABULA, CUYAHOGA, GEAUGA, LAM House in Avon Lake), MEDINA (N. #303)		
	Rates	Fringes
PIPEFITTER		28.34
PLUM0162-002 06/01/2022		
CHAMPAIGN, CLARK, CLINTON, DARKE MONTGOMERY & PREBLE	, FAYETTE, GREE	NE, MIAMI,

5/24/23, 11:16 AM SAM.gov Rates Fringes Plumber, Pipefitter, Steamfitter.....\$ 36.47 26.80 PLUM0168-002 06/01/2022 MEIGS, MONROE (South of Rte. #78), MORGAN (South of Rte. #78) & WASHINGTON Rates Fringes PLUMBER/PIPEFITTER.....\$ 38.02 34.09 PLUM0189-002 06/01/2022 DELAWARE, FAIRFIELD, FRANKLIN, HOCKING, LICKING, MADISON, MARION, PERRY, PICKAWAY, ROSS & UNION Rates Fringes Plumber, Pipefitter, Steamfitter.....\$ 43.25 26.94 _____ PLUM0219-002 06/01/2022 MEDINA (Rte. #18 from eastern edge of Medina Co., west to eastern corporate limits of the city of Medina, & on the county road from the west corporate limits of Medina running due west to and through community of Risley to the western edge of Medina County - All territory south of this line), PORTAGE, and SUMMIT (S. of Rte. #303) COUNTIES Rates Fringes Plumber and Steamfitter.....\$ 41.22 26.64 _____ PLUM0392-002 06/01/2022 BROWN, BUTLER, CLERMONT, HAMILTON & WARREN Rates Fringes PLUMBER/PIPEFITTER.....\$ 36.71 24.89 _____ PLUM0396-001 06/01/2022 COLUMBIANA (Excluding Washington & Yellow Creek Townships & Liverpool Twp. - Secs. 35 & 36 - West of County Road #427), MAHONING and TRUMBULL COUNTIES Rates Fringes 27.91 PLUMBER/PIPEFITTER.....\$ 36.00 PLUM0495-002 06/01/2022 CARROLL (Rose, Monroe, Union, Lee, Orange, Perry & Loudon Townships), COLUMBIANA (Washington & Yellow Creek Townships &

Liverpool Township, Secs. 35 & 36, West of County Rd. #427),

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COSHOCTON, GUERNSEY, HARRISON, HOLMES, JEFFERSON, MORGAN (South to State Rte. #78 & from McConnelsville west on State Rte. #37 to the Perry County line), MUSKINGUM, NOBLE, and TUSCARAWAS COUNTIES

	Rates	Fringes
Plumber, Pipefitter, Steamfitter		34.34
PLUM0577-002 06/01/2022		
ADAMS, ATHENS, GALLIA, HIGHLAND, SCIOTO & VINTON	, JACKSON,	LAWRENCE, PIKE,
	Rates	Fringes
Plumber, Pipefitter, Steamfitter	-	25.73
PLUM0776-002 07/01/2022		
ALLEN, AUGLAIZE, HARDIN, LOGAN, COUNTIES	MERCER, SH	ELBY and VAN WERT
	Rates	Fringes
Plumber, Pipefitter, Steamfitter		27.68
TEAM0377-003 05/01/2021		
STATEWIDE, EXCEPT CUYAHOGA, GEAU	JGA & LAKE	
	Rates	Fringes
TRUCK DRIVER GROUP 1 GROUP 2	\$ 29.74	Fringes 15.70 15.70
GROUP 1	\$ 29.74	15.70
GROUP 1 GROUP 2	\$ 29.74 \$ 30.16 ; Batch; 4-	15.70 15.70
GROUP 1 GROUP 2 TRUCK DRIVER CLASSIFICATIONS GROUP 1 - Asphalt Distributor;	\$ 29.74 \$ 30.16 ; Batch; 4- & Tandem pination: Find phalt Oil Sing Over; Belly	15.70 15.70 Wheel Service; uel; Pole Trailer; praybar Man When Dump; End Dump;
GROUP 1 GROUP 2 TRUCK DRIVER CLASSIFICATIONS GROUP 1 - Asphalt Distributor; 4-Wheel Dump; Oil Distributor GROUP 2 - Tractor-Trailer Comb Ready Mix; Semi-Tractor; & Asp Operated From Cab; 5 Axles & C Articulated Dump; Heavy Duty E	\$ 29.74 \$ 30.16 ; Batch; 4- & Tandem pination: Find phalt Oil Sing Over; Belly	15.70 15.70 Wheel Service; uel; Pole Trailer; praybar Man When Dump; End Dump;
GROUP 1 GROUP 2 TRUCK DRIVER CLASSIFICATIONS GROUP 1 - Asphalt Distributor 4-Wheel Dump; Oil Distributor GROUP 2 - Tractor-Trailer Comb Ready Mix; Semi-Tractor; & Asp Operated From Cab; 5 Axles & C Articulated Dump; Heavy Duty E Mechanic	\$ 29.74 \$ 30.16 ; Batch; 4- & Tandem pination: Find phalt Oil Sing Over; Belly	15.70 15.70 Wheel Service; uel; Pole Trailer; praybar Man When Dump; End Dump;
GROUP 1 GROUP 2 TRUCK DRIVER CLASSIFICATIONS GROUP 1 - Asphalt Distributor; 4-Wheel Dump; Oil Distributor GROUP 2 - Tractor-Trailer Comb Ready Mix; Semi-Tractor; & Asp Operated From Cab; 5 Axles & C Articulated Dump; Heavy Duty E Mechanic TEAM0436-002 05/01/2021	\$ 29.74 \$ 30.16 ; Batch; 4- & Tandem pination: Find phalt Oil Sing Over; Belly	15.70 15.70 Wheel Service; uel; Pole Trailer; praybar Man When Dump; End Dump;

GROUP 2.....\$ 31.15

16.95

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GROUP 1: Straight & Dump, Straight Fuel

GROUP 2: Semi Fuel, Semi Tractor, Euclids, Darts, Tank, Asphalt Spreaders, Low Boys, Carry-All, Tourna-Rockers, Hi-Lifts, Extra Long Trailers, Semi-Pole Trailers, Double Hook-Up Tractor Trailers including Team Track & Railroad Siding, Semi-Tractor & Tri-Axle Trailer, Tandem Tractor & Tandem Trailer, Tag Along Trailer, Expandable Trailer or Towing Requiring Road Permits, Ready-Mix (Agitator or Non-Agitator), Bulk Concrete Driver, Dry Batch Truck, Articulated End Dump

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$16.20) or 13658 (\$12.15). Please see the Note at the top of the wage determination for more information.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at

https://www.dol.gov/agencies/whd/government-contracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or 5/24/23, 11:16 AM

""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on

- a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations Wage and Hour Division U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISIO"

BID FORMS

SECTION F

West St. Sanitary Sewer Improvements **RE-BID SHEET**

Hocking County Commissioners

Prop.					UNI	T PRIC	CE OR LUMP SUM P	RICE I	N FIGURES		Extended
	Project	Description	Quantity	Units	Material		Labor		Total (Sum of		TOTAL-PRICE
No.	Spec.								Labor and Materia	al)	in Figures
					\$		\$		\$		\$
1		8" CIPP Sewer Lining	704	LF							
2		Manhole CIPP Lining	2	EA							
3		Lateral Main Connection CIPP (LMC)	14	EA							
4		8" Sanitary Sewer Pipe	416	LF							
5		8" x 6" WYE	17	EA							
6		6" Sanitary Sewer Service	635	LF							
7		Standard Precast Manhole	2	EA							
8		Construction Staking	1	LS							
9	201	Clearing & Grubbing	1	LS							
10	207	Temporary Erosion & Sediment Control	1	LS							
11	301	6" Asphalt Concrete Base, Roads	49	CY							
12	304	6" Crushed Limestone, Driveways	21	CY							
13	441	2" Asphalt Concrete Surface Course, Roads	120	CY							
14		6" Non Reinforced Concrete Pavement	9	SY							
15	611	6" & Smaller Pipe Culverts, Sewers, Drains, Type D	20	LF							
16	611	12" Pipe Culverts, Sewers, Drains, Type D	10	LF							
17	614	Maintaining Traffic	1	LS							
18	659	Seeding & Mulching	683	SY							
19	659	Commercial Fertilizer	0.1	TON							
20	703	Compacted Granular Backfill	822	CY							

TOTAL BASE BID

BIDDER'S TOTAL BASE BID IN WORDS:

BUSINESS NAME:

BIDDER'S SIGNATURE:

THE BIDDER'S TOTAL ABOVE IS HIS TOTAL BID BASED ON HIS UNIT PRICES AND LUMP SUM PRICES AND THE ESTIMATED QUANTITIES SHOWN ON THE PLANS. THIS FIGURE IS FOR INFORMATION ONLY AT THE TIME OF OPENING BIDS. THE OWNER WILL MAKE THE TABULATION FROM THE UNIT PRICES AND LUMP SUM PRICES BID. IF THERE IS AN ERROR IN THE TOTAL BY THE BIDDER, IT SHALL BE CHANGED AS ONLY THE UNIT PRICES AND LUMP SUM PRICES SHALL GOVERN.

UNIQUE ENTITY I.D.:

Required beginning 4/4/22 - register (free) @ SAM.gov

CONTRACTOR COMPLIANCE CERTIFICATION NO. (IF APPLICABLE):	NTRACTOR COMPLIANCE CERTIFICATION NO. (IF APPLICABLE):
--	--

FEDERAL I.D. NO.:

ADDENDUM RECEIVED (SIGN WHEN APPLICABLE):	
1.	

2. _____

Proposal 2228453500 Page B-2

Dollars.

Hocking County Commissioners West St. Sanitary Sewer Improvements DLZ Ohio Inc:5/24/2023

3.

4.

BID OPENING

PLACE:	
DATE:	
Proposal of	(hereinafter called "Bidder") a (circle
one) Corporation / Partnership / LLC / Solo	e Proprietor, organized and existing under the laws of the State of

TO THE «COMMISSIONER» (hereinafter called "Owner"):

The Bidder, in compliance with your invitation for bids for the furnishing of materials and/or equipment for the ______ project, having examined the specifications with related documents, hereby proposes to furnish all materials and supplies in accordance with the contract documents, within the time set forth therein, and at the process stated below. These prices are to cover all expenses incurred in performing the work required under the contract documents of which this proposal is a part.

Bidder hereby agrees to commence work under this contract on or before a date to be specified in written "Notice to Proceed" of the Owner and to fully complete the project within _____ consecutive calendar days thereafter as stipulated in the specifications. Bidder further agrees to pay liquidated damages, the sum of \$100.00 for each consecutive calendar day thereafter as hereinafter provided in Paragraph 29 of the General Contract Conditions.

Bidder acknowledges receipt of the following addendum(s):

Bidder agrees to provide all of the	Project materials and/or
equipment described in the	specifications and shown on the plans (if applicable) for the
total amount of the bid based on the a	pproximate quantities listed on the following pages. The unit prices specified
by the bidder amount to the sum of:	

 TOTAL BID PER UNIT PRICE PROPOSAL
 \$

IN WORDS

Amounts are to be shown in both words and figures.	In case of a discrepancy,	amount shown in	words will
govern.			

All unit prices shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance, etc., to cover providing the materials/equipment called for.

The Bidder understands that the Owner reserves the right to reject any or all bids and to waive any informalities in the bidding process.

The bidder agrees that this bid shall be good and may not be withdrawn for a period of 90 calendar days after the scheduled closing time for receiving bids.

RESPECTFULLY SUBMITTED:

BY	SIGN HERE
TITLE	-
BUSINESS NAME AND ADDRESS:	
	-
	-
	-
PHONE	-
FED. ID OR SS#	-
SEAL (If Applicable)	

BID GUARANTY AND CONTRACT BOND

(SECTION 153.571 Ohio Revised Code)

· · ·

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned _____

(Name and Address)	
as Principal and	
(Name of Surety)	
	as Surety

are hereby held and firmly bound unto the _____ Co. Commissioners as Obligee in the penal sum of the dollar amount of the bid submitted by the Principal to the Obligee on _____ to undertake the project known as:

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH, that whereas the above named Principal has submitted a bid on the above referred to project;

NOW, THEREFORE, if the Obligee accepts the bid of the Principal and the Principal fails to enter into a proper contract in accordance with bid, plans, details, specifications, and bills of material; and in the event the Principal pays to the Obligee the difference not to exceed ten percent of the penalty hereof between the amount specified in the bid, or the costs, in connection with the resubmission, of printing new contract documents, required advertising and printing and mailing notices to prospective bidders, whichever is less, then this obligation shall be null and void, otherwise to remain in full force and effect. If the Obligee accepts the bid of the Principal and the Principal, within ten (10) days after the awarding of the contract, enters into a proper contract in accordance with the bid, plans, details, specifications, and bills of material, which said contract is made a part of this bond the same as though set forth herein; and IF THE SAID Principal shall well and faithfully perform each and every condition of such contract; and indemnify the Obligee against all damage suffered by failure to perform such contract according to the provisions thereof and in accordance with the plans, details, specifications, and bills of material therefore; and shall pay all lawful claims of subcontractors, materialmen, and laborers, for labor performed and materials furnished in the carrying forward, performing, or completing of said contract; we agreeing and assenting that this undertaking shall be for benefit of any materialman or laborer having a just claim, as well as for the Obligee herein; then this obligation shall be void; otherwise the same shall remain in full force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall in no event exceed the penal amount of this obligation as herein stated.

THE SAID Surety hereby stipulates and agrees that no modifications, omissions, or additions, in or to the terms of said contract or in or to the plans and specifications therefore shall in any way affect the obligations of said Surety on this bond, and it does hereby waive notice of any such modifications, omissions or additions to the term of the contract or to the work or to the specifications.

The penal sum referred to herein shall be the dollar amount of the Principal's bid to the Obligee, incorporating any additive or deductive alternate proposals made by the Principal on the date referred to above to the Obligee, which are accepted by the Obligee. In no case shall the penal sum exceed the amount of dollars (\$

_____). (If the above line is left blank, the penal sum will be the full amount of the Principal's bid including alternates, in dollars and cents. A percentage is not acceptable.) For the payment of the penal sum well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns.

SIGNED AND SEALED This	day of,,
Principal	
By:	SIGN HERE
Title:	
Surety	
By:	SIGN HERE
Attorney-in-Fact	
Surety Company Address:	
Surety Agent's Name and Address:	

AFFIDAVIT OF CONTRACTOR OR SUPPLIER OF NON-DELINQUENCY OF PERSONAL PROPERTY TAXES

O.R.C. 5919.042

STATE OF OHIO:

SS:

TO:

In consideration of the award of the above contract, the above statement is incorporated in said contract as a covenant of the undersigned.

_		SIGN HERE
Subscribed and sworn to before me this	sday of,	
		SIGN HERE
_	Notary Public	
_	My Commission Expires	

SEAL

NON-COLLUSION AFFIDAVIT

State of Ohio

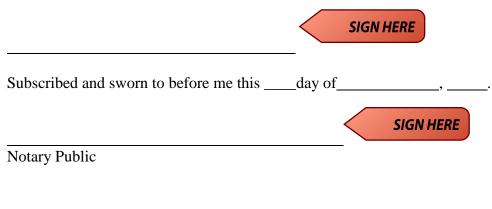
County of _____

BID Identification

CONTRACTOR _____

being duly sworn, deposed and says that he is ________(Sole owner, a partner, president, secretary, etc.) of ________, the party making the foregoing BID; that such BID is not made in the interest of or on behalf of any undisclosed person, partnership, company, association, organization, or corporation; that such BID is genuine and not collusive or sham; that said BIDDER has not directly or indirectly induced or solicited any other BIDDER to put in a fake or sham BID and has not directly or indirectly colluded, conspired, connived, or agreed with any BIDDER or anyone else to put in a sham BID, or that any one shall refrain from bidding; that said BIDDER has not in any manner directly or indirectly, sought by agreement, communication or conference with anyone to fix the BID price of said BIDDER or of any other BIDDER, or to fix any overhead, profit, or cost element of such BID price, or of that of any other BIDDER, or to secure any advantage against the OWNER awarding the contract or anyone interested in the proposed contract; that all statements contained in such BID are true; and, further, that said BIDDER has not, directly or indirectly, submitted his BID price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid and will not pay any fee in connection therewith, to any corporation, partnership, company, association, organization, BID depository, or to any member or agent thereof, or to any other individual except to such person or persons as have a partnership or other financial interest with said BIDDER in his general business.

Signed:



My Commission Expires

SEAL

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS PRIMARY COVERED TRANSACTIONS

This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension, 34 CFR Part 85, Section 85.510, Participant's responsibilities. The regulations were published as Part VII of the May 26, 1988 <u>Federal Register</u> (pages 19160 - 19211). Copies of the regulation may be obtained by contacting the U.S. Department of Education, Grants and Contracts Service, 400 Maryland Avenue, S.W. (Room 3633 GSA Regional Office Building No. 3), Washington, DC. 20202-4725, telephone (202) 732-2505.

(1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

(b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or Local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or Local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and

(d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or Local) terminated for cause or default.

(2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Organization Name

PR/Award Number or Project Name

Name and Title of Authorized Representative

SIGN HERE

Signature ED Form GCS-008 (REV.12/88) Date

AFFIDAVIT IN COMPLIANCE WITH SECTION 3517.13 OF THE OHIO REVISED CODE

STATE OF OHIO COUNTY OF _____, SS:

Personally appeared before me the undersigned, as an individual or as a representative of

(Name of Entity)

for a contract for ______(Type of Product or Service)

to be let by the County of _____, who, being duly cautioned and sworn, makes the following statement with respect to prohibited activities constituting a conflict of interest or other violations under Ohio Revised Code Section 3517.13, and further states that the undersigned has the authority to make the following representation on behalf of himself or of the business entity:

- That none of the following has individually made within the two previous calendar years and that, if 1. awarded a contract for the purchase of goods or services in excess of \$500.00, none of the following individually will make, beginning on the date the contract is awarded and extending until one year following the conclusion of the contract, as an individual, one or more campaign contributions totaling in excess of \$1,000.00, to any member of the _____, County Board of Commissioners or their individual campaign committees:
 - a. myself;
 - b. any partner or owner or shareholder of the partnership (if applicable);
 - c. any owner of more than 20% of the corporation or business trust (if applicable);
 - d. each spouse of any person identified in (a) through (c) of this section;
 - e. each child seven years of age to seventeen years of age of any person identified in divisions (a) through (c) of this section (only applicable to contributions made on or after January 1, 2007).
- 2. That none of the following have collectively made since January 1, 2007 and that, if awarded a contract for the purchase of goods or services in excess of \$500.00, none of the following collectively will make, beginning on the date the contract is awarded and extending until one year following the conclusion of the contract, one or more campaign contributions totaling in excess of \$2,000.00, to any member of the

, County Board of Commissioners or their individual campaign committees:

- a. myself;
- b. nay partner or owner or shareholder of the partnership (if applicable);
- c. any owner of more than 20% of the corporation or business trust (if applicable);
- d. each spouse of any person identified in (a) through (c) of this section;
- e. each child seven years of age to seventeen years of age of any person identified in divisions (a) through (c) of this section (only applicable to contributions made on or after January 1, 2007).

Signature		SIGN HERE
Title:		
Sworn to before me and subscribed in my presence this day of	, 20_	;
Notary Public		SIGN HERE
My Commission Expires:		

ADDITIONAL CERTIFICATIONS

Project Name:_____

Grant Number: _____

I certify that my company has the *facilities* to complete this job.
I certify that my company has the *labor force* to complete this job.
I certify that my company has the *equipment* to complete this job.
I certify that my company has the *administrative capacity* to complete this job.
I certify that my company has the *knowledge* to complete this job.
I certify that my company maintains a *drug free workplace*.

Name and Title of Authorized Representative



Signature & Date

BONDING AND INSURANCE REQUIREMENTS

A state or local unit of government receiving a grant from the Federal government which requires contracting for construction of facility improvement shall follow its own requirement relating to bid guarantees, performance bonds, and payment bonds, except for contracts or subcontracts exceeding \$100,000.00. For contracts or subcontracts exceeding \$100,000.00, the Federal agency may accept the bonding policy requirement of the grantee provided the Federal agency has made a determination that the Government's interest in adequately protected. If such a determination has not been made, the minimum requirements shall be as follows:

- A. <u>A bid guarantee from each bidder equivalent to ten percent of the bid price</u>. The "bid guarantee" shall consist of a firm commitment such as a bid bond, certified check, or other negotiable instrument accompanying a bid as assurance that the bidder will, upon acceptance of his/her bid, execute such contractual documents as may be required within the time specified.
- B. <u>A performance bond on the part of the contractor for 100 percent of the contract price</u>. A "performance bond" is one executed in connection with a contract to secure fulfillment of all the contractor's obligations under such contract.
- C. <u>A payment bond on the part of the contractor for 100 percent of the contract price</u>. A "payment bond" is one executed in connection with a contract to assure payment as required by law of all persons supplying labor and material in the execution of the work provided for in the contract.

EXPERIENCE STATEMENT OF BIDDER

The BIDDER/CONTRACTOR is required to state in detail, in the space provided below, what work of character similar to that included in this proposed Contract Documents it has done, to give reference and such other detailed information as it will enable the OWNER to determine responsibility including experience, skill and financial standing.

PROJECT NAME:	CONTACT:
ADDRESS:	
PHONE:	FAX:
EMAIL:	DATE OF PROJECT:
DESCRIPTION OF WORK:	
PROJECT NAME:	CONTACT:
ADDRESS:	
PHONE:	FAX:
EMAIL:	DATE OF PROJECT:
DESCRIPTION OF WORK:	
PROJECT NAME:	CONTACT:
ADDRESS:	
PHONE:	FAX:
EMAIL:	DATE OF PROJECT:
DESCRIPTION OF WORK:	
PROJECT NAME:	CONTACT:
ADDRESS:	
PHONE:	FAX:
EMAIL:	DATE OF PROJECT:
DESCRIPTION OF WORK:	

Sales and Use Tax Contractor's Exemption Certificate

Department of

Taxation tax.ohio.gov

Contractee's (owner's) name

Exact location of job/project

Name of job/project as it appears on contract documentation

The undersigned hereby certifies that the tangible personal property purchased under this exemption from:

Vendor's name

was purchased for incorporation into:

Real property under a construction contract with the United States government, its agencies, the state of Ohio, or an Ohio political subdivision;	Real property that is owned, or will be accepted for ownership at the time of completion, by the United States government, its agencies, the state of Ohio or an Ohio political subdivision;
A horticulture structure or livestock structure for a per- son engaged in the business of horticulture or produc- ing livestock;	A house of public worship or religious education;
A building used exclusively for charitable purposes by a nonprofit organization operated exclusively for charitable purposes as defined in Ohio Revised Code (R.C.) section 5739.02(B)(12);	A building under a construction contract with an organi- zation exempt from taxation under section 501(c)(3) of the Internal Revenue Code of 1986 when the building is to be used exclusively for the organization's exempt purposes;
The original construction of a sports facility under R.C. section 307.696;	A hospital facility entitled to exemption under R.C. section 140.08;
Real property outside this state if such materials and services, when sold to a construction contractor in the state in which the real property is located for incorpora- tion into real property in that state, would be exempt from a tax on sales levied by that state;	Building and construction materials and services sold for incorporation into real property comprising a con- vention center that qualifies for property tax exemp- tion under R.C. 5709.084 (until one calendar year af- ter the construction is completed).

This certificate may be used by a contractee or subcontractor when buying materials for a construction contract where the owner/contractee has claimed one of the above exemptions. This certificate covers all sales of materials by the above-named vendor to the contractor or subcontractor for this particular construction contract only.

Contractor/subcontractor

Name

Signed by

Title

Street address

City, state, ZIP code

Date

READ BEFORE COMPLETING YOUR DMA FORM

Forms not conforming to the specifications listed below or not submitted to the appropriate agency or office will not be processed.

• To complete this form, you will need a copy of the Terrorist Exclusion List for reference. The Terrorist Exclusion List can be found on the Ohio Homeland Security Web site at the following address:

http://www.homelandsecurity.ohio.gov/dma/dma.asp

- Be sure you have the correct DMA form. If you are applying for a state issued license, permit, certification or registration, the "State Issued License" DMA form must be completed (HLS 0036). If you are applying for employment with a government entity, the "Public Employment" DMA form must be completed (HLS 0037). If you are obtaining a contract to conduct business with or receive funding from a government entity, the "Government Business and Funding Contracts" DMA form must be completed (HLS 0038).
- Your DMA form is to be submitted to the issuing agency or entity. "Issuing agency or entity" means the government agency or office that has requested the form from you or the government agency or office to which you are applying for a license, employment or a business contract. For example, if you are seeking a business contract with the Ohio Department of Commerce's Division of Financial Institutions, then the form to the Ohio Department of Public Safety UNLESS you are seeking a license from or employment or business contract with one of its eight divisions listed below.
- <u>Department of Public Safety Divisions:</u> Administration Ohio Bureau of Motor Vehicles Ohio Emergency Management Agency Ohio Emergency Medical Services

Ohio Homeland Security* Ohio Investigative Unit Ohio Criminal Justice Services Ohio State Highway Patrol

 * DO NOT SEND THE FORM TO OHIO HOMELAND SECURITY UNLESS OTHERWISE DIRECTED. FORMS SENT TO THE WRONG AGENCY OR ENTITY WILL NOT BE PROCESSED.



OHIO DEPARTMENT OF PUBLIC SAFETY DIVISION OF HOMELAND SECURITY http://www.homelandsecurity.ohio.gov

PUBLIC EMPLOYMENT

In accordance with section 2909.34 of the Ohio Revised Code

DECLARATION REGARDING MATERIAL ASSISTANCE/NONASSISTANCE TO A TERRORIST ORGANIZATION

This form serves as a declaration by an applicant for public employment of material assistance/nonassistance to an organization on the U.S. Department of State Terrorist Exclusion List ("TEL"). Please see the Ohio Homeland Security Division Web site for a copy of the TEL.

Any answer of "yes" to any question, or the failure to answer "no" to any question on this declaration shall serve as a disclosure that material assistance to an organization identified on the U.S. Department of State Terrorist Exclusion List has been provided. Failure to disclose the provision of material assistance to such an organization or knowingly making false statements regarding material assistance to such an organization is a felony of the fifth degree.

For the purposes of this declaration, "material support or resources" means currency, payment instruments, other financial securities, funds, transfer of funds, financial services, communications, lodging, training, safe houses, false documentation or identification, communications equipment, facilities, weapons, lethal substances, explosives, personnel, transportation, and other physical assets, except medicine or religious materials.

LAST NAME	FIRS	TNAME		MIDDLE INITIAL
HOME ADDRESS				
CITY	STATE	ZIP	COUNTY	
HOME PHONE () -		WORK PHONE		

DECLARATION

In	accord	ance v	with	section	2909.32	(A)(2)(b) of the	Ohio Revise	d Code

For each question, indicate either '	'yes," d	or "no" in the space	provided. Responses	must be truthful to the	ne best of your k	nowledge.

	Are you a member of an organization on the U.S. Department of State Terrorist Exclusion List?	Yes No
	Have you used any position of prominence you have with any country to persuade others to support an organization on the U.S. Department of State Terrorist Exclusion List?	Yes No
3.	Have you knowingly solicited funds or other things of value for an organization on the U.S. Department of State Terrorist Exclusion List?	 YesNo
	Have you solicited any individual for membership in an organization on the U.S. Department of State Terrorist Exclusion List?	
5.	Have you committed an act that you know, or reasonably should have known, affords "material support or resources" to an organization on the U.S. Department of State Terrorist Exclusion List?	
6.	Have you hired or compensated a person you knew to be a member of an organization on the U.S. Department of State Terrorist Exclusion List, or a person you knew to be engaged in planning, assisting, or	
	carrying out an act of terrorism?	🗌 Yes 🗌 No

If an applicant's employment is denied due to a positive indication on this form, the applicant may request the Ohio Department of Public Safety to review the denial. Please see the Ohio Homeland Security Web site for information on how to file a request for review.

CERTIFICATION

I hereby certify that the answers I have made to all of the questions on this declaration are true to the best of my knowledge. I understand that if this declaration is not completed in its entirety, it will not be processed and I will be automatically disqualified. I understand that I am responsible for the correctness of this declaration. I understand that failure to disclose the provision of material assistance to an organization identified on the U.S. Department of State Terrorist Exclusion List, or knowingly making false statements regarding material assistance to such an organization is a felony of the fifth degree. I understand that any answer of "yes" to any question, or the failure to answer "no" to any question on this declaration shall serve as a disclosure that material assistance to an organization identified on the U.S. Department of State Terrorist Exclusion List has been provided by myself or my organization. If I am signing this on behalf of a company, business or organization, I hereby acknowledge that I have the authority to make this certification on behalf of the company, business or organization referenced above.

APPLICANT SIGNATURE	DATE
X	

_	W.	_ Q _
Form		.
		er 2014)
Departr	nent of t	he Treasury e Service
internal	Revenu	e gervice

	1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.		•
page 2.	2 Business name/disregarded entity name, if different from above		
5	3 Check appropriate box for federal tax classification; check only one of the following seven boxes: Individual/sole proprietor or C Corporation S Corporation Partnership single-member LLC Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership)	Trust/estate	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any)
Print or type Specific Instructions	Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the tax classification of the single-member owner. Other (see instructions) ►		Exemption from FATCA reporting code (if any) (Applies to accounts maintained outside the U.S.)
) pecific	5 Address (number, street, and apt. or suite no.)	Requester's name a	and address (optional)
See S	6 City, state, and ZIP code		
	7 List account number(s) here (optional)		
Par	t I Taxpayer Identification Number (TIN)		
backu reside entitie	your TIN in the appropriate box. The TIN provided must match the name given on line 1 to av p withholding. For individuals, this is generally your social security number (SSN). However, f nt alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other s, it is your employer identification number (EIN). If you do not have a number, see <i>How to ge</i> a page 3.	ora	
	If the account is in more than one name, see the instructions for line 1 and the chart on page ines on whose number to enter.	4 for Employer	identification number
Par	II Certification		•
1 1	a new statement of the		

Under penalties of perjury, I certify that:

- 1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- 3. I am a U.S. citizen or other U.S. person (defined below); and
- 4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here	Signature of U.S. person ►	Date Þ

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted. **Future developments**. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at *www.irs.gov/fw*9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- · Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- · Form 1099-A (acquisition or abandonment of secured property)
- Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.
- If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding? on page 2.

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),

2. Certify that you are not subject to backup withholding, or

3. Claim exemption from backup withhoiding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and

 Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See What is FATCA reporting? on page 2 for further information. Note. If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

An individual who is a U.S. citizen or U.S. resident alien;

 A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;

An estate (other than a foreign estate); or

A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States:

 In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;

 In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and

 In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entitles).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.

2. The treaty article addressing the income.

3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.

4. The type and amount of income that gualifies for the exemption from tax.

5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 28% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,

 You do not certify your TIN when required (see the Part II instructions on page 3 for details), 3. The IRS tells the requester that you furnished an incorrect TIN,

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or

 You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See Exempt payee code on page 3 and the separate Instructions for the Requester of Form W-9 for more information.

Also see Special rules for partnerships above.

What is FATCA reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code* on page 3 and the Instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust cles.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; do not leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account, list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9.

a. Individual. Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note. ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. Sole proprietor or single-member LLC. Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or "doing business as" (DBA) name on line 2.

c. Partnership, LLC that is not a single-member LLC, C Corporation, or S Corporation. Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

d. Other entities. Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. Disregarded entity. For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulations section 301.7701-2(c)(2)(iii). Enter the owner's name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2, "Business name/disregarded entity name." If the owner of the entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

Line 3

Check the appropriate box in line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box in line 3.

Limited Liability Company (LLC). If the name on line 1 is an LLC treated as a partnership for U.S. federal tax purposes, check the "Limited Liability Company" box and enter "P" in the space provided. If the LLC has filed Form 8832 or 2553 to be taxed as a corporation, check the "Limited Liability Company" box and in the space provided enter "C" for C corporation or "S" for S corporation. If it is a single-member LLC that is a disregarded entity, do not check the "Limited Liability Company" box; instead check the first box in line 3 "Individual/sole proprietor or single-member LLC."

Line 4, Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space in line 4 any code(s) that may apply to you.

Exempt payee code.

Generally, individuals (including sole proprietors) are not exempt from backup withholding.

• Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.

 Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.

 Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)

2-The United States or any of its agencies or instrumentalities

3-A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

4-A foreign government or any of its political subdivisions, agencies, or instrumentalities

5-A corporation

6-A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession

7-A futures commission merchant registered with the Commodity Futures Trading Commission

8-A real estate investment trust

9—An entity registered at all times during the tax year under the Investment Company Act of 1940

10-A common trust fund operated by a bank under section 584(a)

11-A financial institution

 $12\mbox{--}A$ middleman known in the investment community as a nominee or custodian

13—A trust exempt from tax under section 664 or described in section 4947 The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for	THEN the payment is exempt for
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over \$600 required to be reported and direct sales over \$5,000 ³	Generally, exempt payees 1 through 5 ²
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

¹ See Form 1099-MISC, Miscellaneous Income, and its instructions.

²However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

A-An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)

B—The United States or any of its agencies or instrumentalities

C-A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

D-A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)

F--A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

G—A real estate investment trust

H-A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940

I-A common trust fund as defined in section 584(a)

J-A bank as defined in section 581

K—A broker

L-A trust exempt from tax under section 664 or described in section 4947(a)(1)

M---A tax exempt trust under a section 403(b) plan or section 457(g) plan

Note. You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see *Limited Liability Company (LLC)* on this page), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note. See the chart on page 4 for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at www.ssa.gov. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at www.irs.gov/businesses and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting IRS.gov or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and gives to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note. Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if items 1, 4, or 5 below indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see Exempt payee code earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
 Individual Two or more individuals (joint account) 	The Individual The actual owner of the account or, if combined funds, the first individual on the account'
 Custodian account of a minor (Uniform Gift to Minors Act) 	The minor ²
 a. The usual revocable savings trust (grantor is also trustee) b. So-called trust account that is not a legal or valid trust under state law 	The grantor-trustee' The actual owner'
 Sole proprietorship or disregarded entity owned by an individual 	The owner ^a
6. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(b)(2)(i) (A))	The grantor*
For this type of account:	Give name and EIN of:
7. Disregarded entity not owned by an individual	The owner
8. A valid trust, estate, or pension trust	Legal entity
9. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
10. Association, club, religious, charitable, educational, or other tax- exempt organization	The organization
11. Partnership or multi-member LLC	The partnership
12. A broker or registered nominee	The broker or nominee
 Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments 	The public entity
14. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(i)	The trust

List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

² Circle the minor's name and furnish the minor's SSN.

(B)

- ³ You must show your Individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (fryou have one), but the IRS encourages you to use your SSN.
- List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account titie.) Also see Special rules for partnerships on page 2. *Note. Grantor also must provide a Form W-9 to trustee of trust.

Note. If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records from Identity Theft

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN.
- · Ensure your employer is protecting your SSN, and
- · Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you . are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Publication 4535, Identity Theft Prevention and Victim Assistance.

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes. Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to phishing@irs.gov. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at: spam@uce.gov or contact them at www.ftc.gov/idtheft or 1-877-IDTHEFT (1-877-438-4338).

Visit IRS.gov to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

Ohio Department of Job and Family Services OHIO NEW HIRE REPORTING

Ohio Revised Code section 3121.89 to 3121.8910 requires all Ohio employers, both public and private, to report all contractors and newly hired employees to the state of Ohio within 20 days of the contract or hire date. Information about new hire reporting and online reporting is available on our website: **www.oh-newhire.com**

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Questions? Call us at (614) 221-5330 or toll-free (888) 872-1490