

MIFFLINBURG AREA SCHOOL DISTRICT

SPECIFICATIONS

Fiber Optic Cable Installation

Mifflinburg Area School District

Bid Due Date:
March 1, 2019
10:00 a.m.

Mifflinburg Area School District
Administration Building
178 Maple Street
Mifflinburg, PA 17844

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Request for Bids

The Mifflinburg Area School District is accepting bids for the *installation of fiber optic cable*. Bids will be received at the Mifflinburg Area School District Administrative Offices, 178 Maple Street, Mifflinburg, PA 17844 to the attention of Mr. Thomas R. Caruso, Business Administrator, until **Friday, March 1, 2019 at 10:00 a.m.**

Bids must be submitted on forms provided by the school district clearly labeled *Fiber Optic Bid*. The specifications, general conditions, scope of work, and bid forms can be obtained via the district website or by contacting the Mifflinburg Area School District Administrative Offices, 178 Maple Street, Mifflinburg, PA 17844 (570) 966-8200.

A pre-bid meeting will be held on **Wednesday, February 6, 2019 at 10:00 a.m.** at the Administrative Office. The Mifflinburg Area School District reserves the right to accept or reject any bids.

(1/19, 1/26, 2/2)

**Mifflinburg Area School District
Request for Bids**

“Fiber Optic Cable Installation”

Bid Form

Vendor Name _____

Address _____

Phone Number _____

Name of Person Submitting Bid _____
(Please Print)

Total Bid Cost \$ _____

The undersigned is acquainted with the actual conditions and requirements of the work. The vendor further declares that he has examined and understands the scope of work and general conditions and all other documents provided including adherence to the Pole Licensing Agreement between the Mifflinburg Area School District and the Borough of Mifflinburg.

Signature _____

Date _____

- The prospective vendor must provide at least 3 customer references with their bid.
- The Mifflinburg Area School District reserves the right to accept or reject any or all bids.
- Bids are **due by 10:00 a.m. Friday, March 1, 2019**

To: Mr. Thomas R. Caruso, Business Administrator
District Administrative Office
178 Maple Street
Mifflinburg, PA 17844

MIFFLINBURG AREA SCHOOL DISTRICT
Scope of Work, Instructions for Bidders and Products
to be Used for Fiber Optic Cable Installation
REVISED: February 7, 2019

The Mifflinburg Area School District (MASD) is seeking proposals for Fiber Optic Cable Installation.

The scope of work, instructions for bidders and products to be used are as follows:

1. The successful bidder/Vendor will include and provide the Mifflinburg Area School District with their Service Provider Identification Number (SPIN) or proof that FCC Form 498 has been completed and submitted to USAC to obtain their Service Provider Identification Number (SPIN).
2. The proposed Fiber optic cable run will consist of 24 strand single-mode cabling and extend from the Administration Building to the Elementary School, (approx. 4500 feet) using existing poles owned by Mifflinburg Borough. All work performed shall be completed in accordance with and pursuant to the terms of the Pole Licensing Agreement between the Mifflinburg Area School District and the Borough of Mifflinburg – Appendix B to the General Conditions. The majority of the installation area can be viewed on the aerial map provided in Appendix A to the General Conditions.
3. Supply and install custom Fiber optic cable markers at each pole for identification as required by utilities.
4. All 24 strands will be terminated in a rack mounted patch panel at both ends with LC single mode connector panels and LC single mode *connectors*.
5. All fiber strands to be tested to Tier 1 and Tier 2 testing parameters which are light source power meter and OTDR (Optical Time Domain Reflectometer).
6. Customer to supply patch cords and all electronic devices.
7. Pole line make ready completed by Vendor in accordance with and pursuant to the terms and agreements within the Pole Licensing Agreement between the Mifflinburg Area School District and the Borough of Mifflinburg. Make ready charges will be the sole responsibility of the successful Vendor.
8. Vendor must coordinate with the Borough of Mifflinburg to secure Right-of-Way Agreements to allow access to properties to install cable.
9. In order to ease installation and reduce costs of the cabling and hauling of materials, the Vendor may request permission to use alternate means to access properties via the Right-of-Way contingent upon authorization of the property owner.
10. The Vendor must demonstrate that it has sufficient labor and equipment to provide the services as outlined in the Request for Bid.

11. The Vendor must include proof of general liability insurance coverage of at least \$1,000,000 per occurrence and \$1,000,000 in the aggregate. The Vendor's policy should include the Mifflinburg Area School District as an additional insured and provide a Waiver of Subrogation in favor of the Mifflinburg Area School District. The Vendor's general liability aggregate limit should be on a "per project" basis.
12. The Vendor must provide proof of workman's compensation coverage. The Vendor's workers' compensation policy should include a Waiver of Subrogation in favor of the Mifflinburg Area School District.
13. The Vendor may review the scope of work area by contacting Mr. Justin Haynes, (MASD) Information Technology Services (IT) Coordinator at 570-966-8200.
14. The Vendor agrees that the (MASD) Information Technology Services (IT) Coordinator shall have the authority to determine that the work is properly done and may direct the Vendor to redo any work that is not completed at the Vendor's expense.
15. Pennsylvania law prohibits use of tobacco, drugs and alcohol on public school property and the Vendor must strictly enforce these requirements amongst its staff.
16. All Vendor personnel are NOT permitted in the buildings or in any areas where there are children present.
17. All Vendor personnel must have uniforms or visible ID badges that identify them as the Vendors' employee.
18. The approved Vendor must provide current child abuse clearance, current background clearance and current FBI Federal Criminal History Record Check for all of its employees who will be working on school property.
19. No part of the work maybe subcontracted to individuals or other companies.
20. The Vendor shall provide all necessary labor, materials, supplies, equipment, and safety devices to do the required work. The Vendor may not borrow MASD labor, equipment or materials.
21. MASD reserves the right to stop any work it deems to be unsafe.
22. The Vendor must provide at least 3 customer references to be included with a bid submission.
23. The Vendor agrees to provide monthly itemized invoices for goods and services to the Mifflinburg Area School District.
24. The Mifflinburg Area School District reserves the right to accept or reject any or all bids.

End of Scope of Work, Instructions to Bidders and Products to be Used

GENERAL CONDITIONS

1.01 DESCRIPTION

The project consists of Fiber Optic Cable Installation in the Mifflinburg Area School District. The majority of the installation will be performed on aerial utility poles that are owned by and within the property right-of-way in the Borough of Mifflinburg. The Borough of Mifflinburg and the Mifflinburg Area School District have entered into a Pole Licensing Agreement, and the successful vendor will have to adhere to its terms and conditions. The successful bidder should be prepared to perform and have this work completed between June 7, 2019 and August 15, 2019.

1.02 EXTENT OF WORK

Provide all labor, material, tools, equipment, supervision and municipal permits as required and necessary to complete the work.

1.03 USE OF THE PREMISES

Mifflinburg Area School District will provide Vendor a location for storing equipment and materials if necessary. Due to the nature of the work being performed and the areas within which certain poles are located, all work shall be in accordance with the Borough of Mifflinburg's Ordinances and pursuant to the terms and agreements within the Pole Licensing Agreement between the Mifflinburg Area School District and the Borough of Mifflinburg.

1.04 EXISTING CONDITIONS

If discrepancies are discovered between the existing conditions and those noted on the drawings or aerial map of the service area included at Appendix A, immediately notify the owner's representative, Mr. Justin Haynes, by phone at (570) 966-8200.

1.05 PRE-INSTALLATION INSPECTION

Prior to submission of bid, the Vendor shall attend the pre-bid meeting scheduled for Wednesday, February 6, 2019 at 10:00 a.m. at the Mifflinburg Area School District Administrative Office, 178 Maple Street, Mifflinburg, Pennsylvania 17870. This meeting will include a job site inspection to observe actual conditions and verify all dimensions of the areas. A representative of the Borough of Mifflinburg will be available for questions at the pre-bid meeting. Job site inspections may occur by contacting Mr. Justin Haynes, telephone number at (570) 966-8200, the owner's representative to coordinate an appropriate time.

1.06 TEMPORARY FACILITIES AND CONTROLS

A. Temporary Sanitary Facilities: Sanitary facilities will not be available at the job site.

B. Building/Grounds Site:

1. The fiber optic cable vendor shall use reasonable care and responsibility to protect the building/grounds and site against damages. The vendor shall be responsible for the correction of any damage incurred as a result of the performance of the contract.
2. The fiber optic cable vendor shall remove all debris from the job site in a timely and legally acceptable manner so as to not detract from the aesthetics or the functions of the building/grounds.

C. Security: Obey the owner's requirements for personnel identification, inspection and other security measures.

1.07 JOB SITE PROTECTION

- A. The fiber optic cable Vendor shall adequately protect building, paved areas, service drives, lawn, shrubs, trees, etc. from damage while performing the required work. Provide necessary for protection and remove protection material at completion. The Vendor shall repair or be responsible for costs to repair all property damaged during the fiber optic cable installation.
- B. Remove all traces of piled bulk materials and return the job site to its original condition upon completion of the work.

1.08 SAFETY

The fiber optic cable Vendor shall be responsible for all means and methods as they relate to safety and shall comply with all applicable local, state and federal requirements that are safety related. **Safety shall be the responsibility of the fiber optic cable Vendor.** All related personnel shall be instructed daily to be mindful of the full time requirement to maintain a safe environment for the facility's occupants including staff, visitors, customers and the occurrence of the general public on or near the site.

1.09 WORKMANSHIP

- A. Applicators installing the fiber optic cable and related work shall be trained and approved by the company they are representing.
- B. All work shall be of highest quality and in strict accordance with the published specifications and to the building owner's satisfaction.
- C. There must be a supervisor on the job site at all times while work is in progress.

1.10 CASH ALLOWANCES

Cash allowances are prohibited.

1.11 DISCRIMINATION PROHIBITED

Each contract entered into by a government agency for the construction, alteration or repair of any public building or public work shall contain the following provisions:

- A. In the hiring of employees for the performance of work under the contract, no Vendor or any person acting on behalf of the Vendor shall by reason of gender, race, creed, or color discriminate against any citizen of this Commonwealth who is qualified and available to perform the work to which the employment relates.
- B. No Vendor or any person on their behalf shall in any manner discriminate against or intimidate any employee hired for the performance of work under this contract on account of gender, race, creed, or color.
- C. The contract may be canceled or terminated by the government agency and all money due or to become due under the contract may be forfeited for a violation of the terms or conditions of that portion of the contract.

1.12 HUMAN RELATIONS COMPLIANCE (Act 222)

The provisions of the Pennsylvania Human Relations Act, Act 222 of October 27, 1955 (P.L.744) (43 P.S. Section 951, et. seq.) of the Commonwealth of Pennsylvania prohibit discrimination because of race, color, religious creed, ancestry, age, sex, national origin, handicap, or disability, by employers, employment agencies, labor organizations, Vendors and others. The Vendor shall agree to comply with the provisions of this Act as amended that is made part of this specification. Your attention is directed to the language of the Commonwealth's non-discrimination clause in 16 PA. Code 49.101.

1.13 STANDARD OF QUALITY

The various materials and products specified in the specifications by name or description are given to establish a standard of quality and of cost for bid purposes. It is not the intent to limit the bidder, the bid or the evaluation of the bid to any one material or product specified but rather to describe the minimum standard. A bid containing an alternative which does not meet the specification may be declared non-responsive. A bid containing an alternative may be accepted but, if an award is made to that bidder, the bidder will be required to replace any alternatives which do not meet the specifications.

1.14 DOMESTIC STEEL AND CAST IRON PRODUCTS

In accordance with Act 3 of the 1978 General Assembly of the Commonwealth of Pennsylvania, if any steel or steel products are to be used or supplied in the performance of the contract, only those produced in the United States as defined therein shall be used or supplied in the performance of the contract or any subcontracts there under.

In accordance with Act 161 of 1982, cast iron products shall also be included and produced in the United States. Act 141 of 1984 further defines "steel products" to include machinery and equipment. The act also provides clarifications and penalties.

1.15 AHERA

This Vendor shall be responsible to report any questionable discovery of asbestos uncovered or molested by this construction and stop progress on the work until proper authorities can be notified and a plan of action made to handle the material as set forth by the Public Law 99-519.

1.16 PENNSYLVANIA ACT 151/ACT 34/ACT 114 – FBI FEDERAL CRIMINAL HISTORY CLEARANCE

Pennsylvania Act 151/ Act 34 and Act 114 – FBI Federal Criminal History Clearance shall be strictly followed in performance of work under this contract. These Acts require employees of the Vendor to undergo background checks.

The successful bidder shall be required to submit required clearances for all workmen on site, prior to starting any work.

Required forms are available from the School District Business Office or from the Pennsylvania State Police.

All costs are the responsibility of the Vendor.

1.17 TAXES

Unless a valid exemption or exclusion exists, Vendor shall bid and shall purchase as excluded from Pennsylvania Sales and Use Tax all Building Machinery and Equipment as defined by the Pennsylvania Department of Revenue in accord with Act 45 of 1998. Owner will not provide a tax exemption certificate to any Vendor, material supplier or other entity in assisting in making tax-exempt purchases.

The Vendor hereby accepts and assumes exclusive liability for and shall defend, indemnify, protect and hold harmless the Owner from and against the payment of:

- A. Contributions, taxes or premiums (including interest and penalties thereon) which may be payable under the Unemployment Insurance Law of any State, the Federal Social Security Act, Federal, State, County and Municipal Tax Withholding Laws, or any other laws, measured upon the payroll of or required to be withheld from employees, by whomever employed, engaged in the Work.
- B. Sales, use, personal property and other taxes (including interest and penalties thereon) required by any Federal, State, County, Municipal or other law to be paid or collected by the Vendor or any of its vendors or any other person acting for, through or under it or any of them, by reason of the performance of the Work or the acquisition, ownership, furnishing or use of any materials equipment, supplies, labor, services or other items for or in connection with the Work.

- C. Pension, welfare, vacation, annuity and other union benefit contributions payable under or in connection with labor agreements with respect to all persons, by whomsoever employed, engaged in the Work.

1.18 PERMITS, FEES, AND NOTICES

The Vendor shall comply with, and perform its Work in accord with all applicable laws, statutes, ordinances, lawful orders of governmental authorities, building codes, and rules and regulations, unless the Contract Documents require a higher or greater standard, in which case the Vendor shall conform to such higher or greater standard. It shall be the obligation of the Vendor to review the Contract Documents and to determine and to notify the Owner of any discrepancy between building codes and regulations of which the Vendor has knowledge or should be reasonably able to determine.

The Vendor shall not violate any zoning, setback or other requirements of applicable laws, codes and ordinances, or of any recorded covenants of which the Vendor has knowledge. If the Vendor observes that portions of the Contract Documents are at variance with applicable laws, statutes, ordinances, building codes, rules or regulations, the Vendor promptly shall notify the Owner, in writing, and necessary changes shall be accomplished by appropriate modification.

1.19 INDEMNIFICATION

To the fullest extent permitted by law, the Vendor shall indemnify and hold harmless the Owner, and consultants, agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to, attorneys, fees and defense costs, arising out of or resulting from performance of the Work, but only to the extent caused in whole or in part by the acts or omissions of the Vendor, or anyone directly or indirectly employed by them or anyone for whose acts or omissions they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person described in this Paragraph. The Vendor agrees to and does hereby assume on behalf of the Owner the defense of any action at law or in equity which may be brought against such indemnities, upon their demand, the amount of any judgment that may be entered against such indemnities in any such action. In the event that any such claim, loss, cost, expense, liability, damage or injury arises or is made, asserted, threatened against the Owner for which the Vendor or its insurer does not admit coverage, or if the Owner reasonably determines such coverage to be inadequate, the Owner shall have the right to withhold from any payments due or to become due to the Vendor an amount sufficient to protect the Owner from such claim, loss, cost expense, liability, damage or injury, including attorneys' fees and expenses reasonably necessary for the defense thereof.

The Vendor hereby certifies to the Owner that it complies with all employment related laws and regulations governing employment or collective bargaining agreements, if any. Nothing in this Agreement shall be construed as divesting any Vendor of its sole and exclusive right to control the means, manner or method of performance of the Work of any Vendor or their employees. Nothing in this Agreement shall be construed in a manner that would be in violation of the legal or contractual rights of any employee. The Vendor shall defend, hold harmless and indemnify the Owner against and from any and all claims, demands, suits, actions, costs and expenses including reasonable attorneys' fees, growing out of any claims by an employee or independent Vendor of any tier alleging

the violation of any of the individuals' employment rights, whether legal, constitutional or contractual in nature. This provision shall be accorded the broadest meaning.

1.20 DELAYS AND EXTENSIONS OF TIME

No payment or compensation or claim for damages shall be made to the Vendor as compensation for damages for any delays or hindrances from any cause whatsoever in the progress of the Work, notwithstanding whether such delays be avoidable or unavoidable. The Vendor's sole remedy for delays shall be an EXTENSION OF TIME ONLY, pursuant to and only in accord with this Paragraph, such extension to be a period equivalent to the time lost by reason of and all of the aforesaid causes, as determined by the Owner. In consideration for this grant of a time extension, the Owner shall not be held responsible for any loss or damage or increased costs sustained by the Vendor through any delays caused by the Owner or any other Vendor or on account of the aforesaid causes or any Other cause of delay. In the event the Vendor chooses to litigate this provision and fails to prevail in its entire litigation, the Vendor shall reimburse the Owner for any attorneys' fees, professional fees and all other costs and expenses incurred by the Owner associated with analyzing, defending, or otherwise opposing any such claim or litigation.

1.21 INSURANCE

- A. The Vendor shall not commence work until he has obtained all the insurance required hereunder and such insurance has been approved by the Owner. Approval of the insurance by the Owner shall not relieve or decrease the liability of the Vendor hereunder.
- B. Compensation and Employer's Liability Insurance. The Vendor shall take out and maintain during the life of this Contract, the statutory Workman's Compensation and Employer's Liability Insurance for all of his employees to be engaged in work on the project under this Contract. Employees Liability Insurance shall be for an amount of not less than \$1,000,000.
- C. Automobile Insurance. Each Vendor shall carry automobile insurance covering licensed vehicles, said insurance to have the following policy limits.

Combined single limit for bodily injury and property damage
\$1,000,000 per incident

Each Vendor shall carry comprehensive automobile insurance covering non-owned vehicles and hired cars, said insurance to have the same limits as immediately above.

- D. Comprehensive General Liability Insurance. Each Vendor shall maintain a policy of comprehensive general liability insurance including the following areas of coverage and policy limits:
 - 1. Area of coverage shall include:
 - Premises – Operations Liability
 - Owner's Protective Liability

Completion Operations and Products Liability
Contractual Liability

2. Combined single limit for bodily injury and property damage
\$1,000,000 per incident
3. Excess Blanket Liability - \$1,000,000 Single Limits Bodily Injury and
Property Damage Liability excess for primary insurances.

E. Certificates of Insurance

Certificates evidencing the foregoing insurance coverage shall be filed with the Owner and subject to approval for accuracies of protection. All policies shall be open to inspection by the Owner. If the Vendor fails to effect or maintain insurance as required, the Owner may insure its own interest and charge the cost thereof to the Vendor.

Said policies and certificates shall certify, among other things, that the insurance will not be canceled nor lapsed during the progress of the work covered by these specifications without first giving the Owner ten (10) days notice in writing.

It is expressly understood that the Vendors herein are independent Vendors, and that the employee of the Vendor shall in no way be construed to be employees of the Owner.

1.22 LIMITATION OF RESPONSIBILITY

In no event shall the Owner have control over, charge of, or any responsibility for construction or any responsibility for construction means, methods, techniques, sequences or procedures or for safety precautions and programs in connection with the Work, notwithstanding any of the rights and authority granted the Owner in the Contract Documents. It is expressly understood and agreed that the presence on the jobsite of the Owner's visiting officers or employees, the Owner or supervisory personnel employed by Owner and the making by such personnel of any inspections of the Vendor's Work, materials, tools or equipment, or of the finished Work of the Vendor and their approval of same, or failure to take exception thereto, shall in no way relieve the Vendor from its absolute responsibility to perform its Work and furnish its materials in accord with the requirements of the Contract Documents. It is further understood that under no circumstances shall the Vendor urge, for any purpose whatsoever, that the presence of the Owner, any supervisory personnel, and visiting officers or employees of the Owner, and any failure by such personnel to take exception to any Work of the Vendor, constitute a ratification or approval of the Work or work methods employed by the Vendor if the same did not in fact comply with the requirements of the Contract Documents.

1.23 COMPETENT WORKMEN

No workmen shall be required as competent first class, within the meaning of this Act, except those who are duly skilled in their respective branches of labor, and who shall be paid not less than such rates of wages and for such hours work as shall be doing of similar work in the district where work is being done. According to Section 752 of the Public School Code of 1949, no person shall be employed to do work under such contract except competent and first class workmen and mechanics.

All workmen on this project must have Pennsylvania State Police Act 34 Clearance Affidavit. Attesting to that Clearance should be carried by each individual workman when on the premises or in the building. A copy of the Affidavit must be filed with the District Administration Office, prior to that workman performing work on the site. The cost of obtaining this "Clearance" and required badges shall be the responsibility of the Vendor.

Act 151-PA Child Abuse History Clearance: Successful bidder shall have a background check done on all employees who will be working in or around district buildings who will have "direct contract with students." Background checks shall be in accord with Act 151 of 1994. The Vendor shall submit the original to the Owner prior to an employee beginning work. The cost of obtaining this "Clearance" and required badges shall be the responsibility of the Vendor.

1.24 PENNSYLVANIA PREVAILING WAGE RATES

If the total estimated project sum is greater than \$25,000.00, this regulation and the general Pennsylvania prevailing minimum wage rates, (Act 442 of 1961, P.L. 987, amended) as determined by the Secretary of Labor and Industry, which shall be paid for each craft or classification of all workers needed to perform the contract during the anticipated term therefore in the locality in which public work is performed, are made part of this specification.

No workmen shall be employed on this work except in accord with the classifications set forth in the decision of the Secretary of Labor and Industry. If additional or different classifications are necessary, the procedure set forth in Section 7 of the Regulations for Pennsylvania Prevailing Wage Act shall be followed.

All workmen employed or working on this work shall be paid unconditionally, regardless of whether any contractual relationship exists or the nature of any contractual relationship which may be alleged indirectly, except authorized deductions, the full amounts due at the time worked in the appropriate classification. This Contract does not prohibit payment of more than the general prevailing minimum wage rates as determined by the Secretary of Labor and Industry.

Each Vendor shall post for the entire period of construction the wage determination decisions of the Secretary of Labor and Industry, including the effective date of any changes thereof, in a prominent and easily accessible place or places at the site of the work and at such place or places used by them to pay workmen their wages. The posted notice of wage rates shall contain the following information:

- A. Name of Project.
- B. Name of Public Body for which it is being constructed.
- C. The crafts and classifications of workmen listed in the Secretary's general prevailing minimum wage rate determination for the particular project.
- D. The general prevailing minimum wage rates determined for each craft and classification and the effective date of any changes.

- E. A statement advising workmen that if they have been paid less than the general prevailing minimum wage for their job classification, or if the Vendor is not complying with the Act or the Regulations in any manner whatsoever, they may file a protest, in writing, with the Secretary of Labor and Industry within three months of the date of the occurrence, objecting to the payment of any Vendor to the extent of the amount or amounts due or to become due to them as wages for work performed on the public work project. Any workmen paid less than the rate specified in the Contract shall have a civil right of action for the difference between the wage paid and the wages stipulated in the Contract, which right of action shall be exercised within six months from the occurrence of the event creating such right.

The Vendor shall keep accurate records showing the name, craft, classification, number of hours worked per day and actual hourly rate of wage paid (including employee benefits) to each workman employed by him in connection with work. Such record shall include any deductions from each workman. The record shall be preserved for two years from the date of payment and shall be open at all reasonable hours to the inspection of the public body awarding the Contract and to the Secretary of Labor and Industry or his duly authorized representatives.

Apprentices shall be limited to such numbers as shall be in accord with a bona fide apprenticeship program registered with and approved by the Pennsylvania Apprenticeship and Training Council and only apprentices whose training and employment are in full compliance with the provisions of the Apprenticeship and Training Act approved July 14, 1961 (Act No. 304) and the Rules and Regulations issued pursuant thereto shall be employed on the public work project. Any workman using the tools of a craft who does not qualify as an apprentice within the provisions of this subsection shall be paid the rate predetermined for journeymen in that particular craft and classification as follows:

- A. Wages shall be paid without any deductions except authorized deductions. Employers not parties to a contract requiring contributions for employee benefits which the Secretary has determined to be included in the general prevailing minimum wage rate shall pay the monetary equivalent thereof directly to the workmen.
- B. Payment of compensation to workmen for work performed on public work on a lump sum basis, or a piece work system, or a price certain for the completion of a certain amount of work, or the production of a certain result shall be deemed a violation of the Act and these Regulations, regardless of the average hourly earnings resulting therefrom.

Each Vendor shall file a statement each week and a final statement at the conclusion of the Work on the contract with the contracting agency, under oath, and in form satisfactory to the Secretary, certifying that all workmen have been paid wages in strict conformity with the provisions of the contract as prescribed by this Section C of these Regulations, or of any wages remain unpaid to set forth the amount of wages due and owing to each workman respectively.

END OF GENERAL CONDITIONS

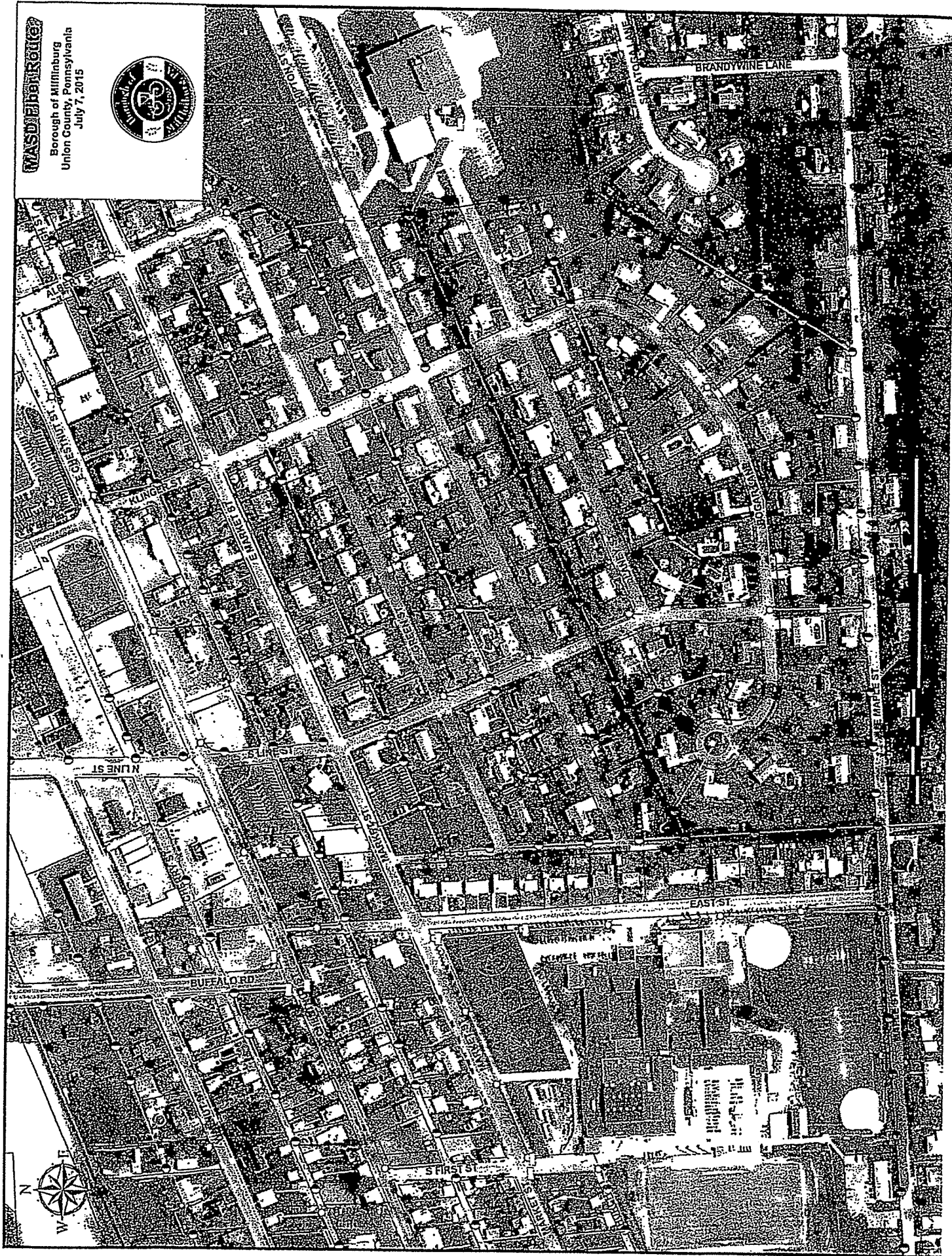
APPENDIX A

AERIAL MAP OF WORK AREA

πρρεταix A

WASD FiberRoute

**Borough of Millinburg
Union County, Pennsylvania
July 7, 2015**



APPENDIX B

POLE LICENSING AGREEMENT BETWEEN THE MIFFLINBURG AREA SCHOOL DISTRICT AND THE BOROUGH OF MIFFLINBURG

Appendix B—Pole Attachment Permit Application Process

The following procedure is to be followed by each Licensee seeking to make new Attachments on the Borough's Poles, or overlash to existing pole tenant facilities on the Borough's Poles. Note that no entity may make any Attachments to the Borough's Poles or overlash to existing pole tenant facilities on the Borough's Poles without having first entered into a binding Pole Attachment Licensing Agreement with the Borough. Third parties seeking to overlash to an existing pole tenant facility must also have a written overlash agreement with the pole tenant to be overlashed. The overlash agreement must be provided to the the Borough at the time of application.

1. Licensee shall submit a written request to perform a Pre-Construction Inspection. The request must include a preliminary route description. Licensee shall have a professional engineer or Borough-approved employee or contractor, participate in a Pre-Construction Inspection, which will include a review of the proposed Attachment(s) to determine the feasibility of the request and identify any potential Make-Ready Work. Appendix F to this Agreement contains the minimum design review information that an applicant must provide and a worksheet for determining the minimum specifications that the proposed Attachment must meet.
2. Following the Pre-Construction Inspection, Licensee shall submit a completed Permit Application (Appendix C) that includes: route map, information required in Appendix F, installation plans, recommendations on Make-Ready Work, and a pole-loading analysis stamped by a professional engineer. Licensee shall prepare the Permit Application in adherence with the Applicable Standards (Section 1.2 of Agreement) and specifications (Appendix D).
3. At the attacher's expense, the Borough will review the recommendations from the inspection and the pole-loading analysis, and discuss any issues with the Licensee.
4. Upon receipt of written authorization, the Borough will proceed with Make-Ready Work according to the specific agreed-upon installation plans and the terms of the Agreement, including payment for the Make-Ready Work charges as set out by the Borough and agreed to by the Licensee.
5. Upon completion of the Make-Ready Work, the Borough will sign and return the Application for Permit authorizing the Licensee to make its Attachment(s) in accordance with agreed-upon installation plans.
6. Unless waived in writing by the Borough, the Licensee's professional engineer, Borough-approved employee, or contractor shall submit written certification that he/she has completed the Post-Construction Inspection and that the installation was done in accordance with the provisions of the Permit. The Post-Construction Inspection shall be submitted within ninety (90) calendar days after installation is complete. The Borough will verify the inspection by means that it deems to be reasonable.

**Appendix C— Application
for Permit**

Application for Permit

Application Date: ___/___/___

To: Mifflinburg Borough, 120 N. 3rd St., Mifflinburg, PA 17844

Desire to: ☐ Attach to Borough Pole(s) ☐ Remove Attachment from Borough Pole(s)
 ☐ Overlash to existing facility attached to Borough Pole(s)

Permit No. _____ Superseded Permit No. _____

Number of Poles this permit _____ Sheet 1 of _____

Licensee Name _____

Address _____

Contact Person: Phone _____ Title _____

Borough
Contact Person: Phone _____ Title _____

Narrative Description of proposed activity:

Application for Permit

In accordance with the terms and conditions of the Pole Attachment Licensing Agreement dated _____, application is hereby made for a Permit to attach to and/or vacate Pole(s) in the locations detailed on the attached Route Map(s). Also, attached is documentation as required by Appendix F of the Agreement. If applicable, the engineer's name, state registration number, and phone number are:

Name _____ Phone _____

Registration # _____

Permission is hereby granted to Licensee to attach and/or vacate poles listed on the attached Field Data Summary Sheets, subject to payment of the necessary Make-Ready Work charges as set out by the Borough and agreed to by the Licensee.

SUBMITTED:

APPROVED:

Licensee _____ Borough _____

By _____ By _____

Title _____ Title _____

Date _____ Date _____

**Appendix D—
Specifications for Licensee's Attachments to Borough Poles**

Licensee, when making Attachments to Borough Poles, will adhere to the following engineering and construction practices.

A. All Attachments shall be made in accordance with the Applicable Standards, as defined in Paragraph 1.2 of this Agreement.

B. Clearances

1. **Attachment and Cable Clearances:** Licensee's Attachments on Borough Poles, including metal attachment clamps and bolts, metal cross-arm supports, bolts and other equipment, must be attached so as to maintain the minimum separations specified in the National Electrical Safety Code ("NESC") and in drawings and specifications the Borough may from time to time furnish Licensee. (See Drawings A-01 to A-11.)
2. **Service Drop Clearance:** From the pole to the home/building the parallel minimum separation between the Borough's service drops and communications service drops shall be twelve (12) inches, per NESC 235C1b (exception 3). (see drawing A-5)
3. All other drop clearances at the midspan must conform to NESC table 235-6.

Sag and Mid-Span Clearances: Licensee will be particularly careful to leave proper sag in its lines and cables and shall observe the established sag of power line conductors and other cables so that minimum clearances are: (a) achieved at poles located on both ends of the span; and (b) retained throughout the span.

At mid-span, a minimum of twelve (12) inches of separation must be maintained between all telecommunication cables that meet NESC rule 230E1 (includes common phone, CATV, and fiber optic cables lashed to an effectively grounded messenger strand, or self-supporting cables).

NESC table 235-6 requires:

- 12" from neutral (by exception #16)
 - 30" from supply lines carrying 0 to 8.7 kV (secondary)
 - 30" plus 0.4" per kV in excess of 8.7 (primary)
4. **Vertical Risers:** All Risers, including those providing 120/240 volt power for Licensee's equipment enclosure, shall be placed on the quarter faces of the Pole and must be installed in conduit with weatherhead (if possible), attached to the Pole with stand-off brackets. A two- (2) inch clearance in any direction from cable, bolts, clamps, metal supports, and other equipment shall be maintained. (See Drawings A-02 and A-04.)
 5. **Climbing Space:** A clear Climbing Space must be maintained at all times on the face of the

Pole. All Attachments must be placed so as to allow and maintain a clear and proper Climbing Space on the face of the Borough Pole. Licensee's cable/wire Attachments shall be placed on the same side of the Pole as those of other Attaching Entities. In general, all other Attachments and Risers should be placed on Pole quarter faces. (See Drawing A-09.)

6. **Pedestals and Enclosures:** Every effort should be made to install Pedestals, vaults and/or Enclosures at a minimum of four (4) feet from Poles or other Borough Facilities, or the distance specified by the Borough, whichever is greater.

C. Down Guys and Anchors

1. Licensee shall be responsible for procuring and installing all anchors and guy wires to support the additional stress placed on the Borough's Poles by Licensee's Attachments. Anchors must be guyed adequately.
2. Anchors and guy wires must be installed on each Borough Pole where an angle or a dead-end occurs. Licensee shall make guy attachments to Poles at or below its cable Attachment. No proposed anchor can be within four (4) feet of an existing anchor without written consent of the Borough.
3. Licensee may not attach guy wires to the anchors of the Borough or third-party user without the anchor owner's specific prior written consent.
4. No Attachment may be installed on a Borough Pole until all required guys and anchors are installed. No Attachment may be modified, added to, or relocated in such a way as will materially increase the stress or loading on the Borough's Poles until all required guys and anchors are installed.
5. Licensee's down guys, if needed, shall be bonded, to the vertical ground wires of the Borough's Pole, in accordance to NESC rule 92C. If there is no vertical ground present at the pole, the connections to the system neutral are to be made by the Borough as an item of Make-Ready Work. The Borough will determine if guys should be grounded or insulated.

D. Certification of Licensee's Design

1. Licensee's Attachment Permit application must be signed and sealed by a professional engineer, registered in Pennsylvania, certifying that Licensee's aerial cable design fully complies with the NESC and the Borough's Construction Standards and any other applicable federal, state or local codes and/or requirements.
2. This certification shall include the confirmation that the design is in accordance with pole strength requirements of the NESC, taking into account the effects of the Borough's Facilities and other Attaching Entities' facilities that exist on the Poles without regard to the condition of the existing facilities.

E. Miscellaneous Requirements

1. **Cable Bonding:** Licensee's messenger cable shall be bonded according to NESC rule 92C1 as a minimum, or at every pole with a vertical ground, as determined by the Borough. If no ground exists on a pole to be bonded, Licensee shall install a Pole ground in accordance with the attached detail drawing. (See Drawings A-03 to A-04.)
2. **Customer Premises:** Licensee's service drop into customer premises shall be protected as required by the most current edition of the NEC.
3. **Communication Cables:** All Communications cables/wires not owned by the Borough shall be attached within the Communications space that is located 40 inches below the lowest Borough conductors. (See Drawings A-01 through A-11.)
4. **Riser Installations:** All Licensee's Riser installations shall be in Borough-approved conduit materials and placed on stand-off brackets. Ground wires may be attached directly to Pole. (See Drawings A-02 to A-04.)
5. **Tagging:** All Licensee's cables shall be identified with a band-type communications cable tag or other identification acceptable to the Borough at each Attachment within twelve (12) inches of the Pole. The communications tag shall be consistent with communication industry standards and shall include at least the following: Licensee name, emergency contact number, and cable type. At the discretion of the Borough, Tags shall be color-coded to permit identification of Attaching Entity by observation from the ground.

F. Borough Construction Drawings and Specifications

1. Refer to the attached Borough Construction Drawings, and obtain additional construction specifications from the Borough in accordance with its requirements.
2. Apply the Borough's construction drawings and specifications in accordance with the NESC, NEC, and any other federal, state, or local code requirements.

G. Distributed Antenna System

1. The applicant is responsible for responding to any and all community concerns or complaints related to the antenna, including aesthetic appearance, health concerns due to radio frequency emissions, etc.
2. Applicants seeking to attach pole-top antennas must provide the Borough with the following:
 - Spec sheets (including typical attachment drawings) and design information for the equipment proposed for attachment;
 - Maps detailing locations for proposed attachment.
3. The Borough must approve the design and mounting requirements for all pole-top, and other type antennas.
4. The Borough must approve all pole locations selected for antenna placement.

5. Proposed pole-top antenna locations must have adequate pole space and not exceed the pole's maximum loading. The applicant is solely responsible for all associated make-ready costs needed to bring the pole into compliance.
 - Only one antenna will be allowed on a pole.
6. Poles selected for pole-top antennas must meet the following criteria
 - Must be a tangent pole;
 - Poles selected must not have existing equipment (regulators, gang switches, capacitors, etc.);
 - Pole must be readily accessible by bucket truck;
 - Minimum of a class 3 pole.
7. Antennas must be a minimum of 5 feet above the highest electric attachment.
 - Pole extensions are not permitted.
 - In most cases, the pole must be changed out.
 - The Applicant will be responsible for the cost of the pole-loading analysis (if required by the Borough).
 - In the event the total height of the pole with the antenna attachment exceeds 60 feet, NESC rule 250D shall apply to the pole-loading analysis.
8. All pole-top antennas will be installed by the Borough or a contractor approved by the Borough.
9. A new ground rod is required at all pole-top antenna locations.
10. Antenna riser cables and grounds must be installed in a minimum of Schedule 40 conduit not larger than 2 inches.
11. All antenna power sources must have a lockable disconnect installed, to allow for the antenna power source and any back-up power sources to be disconnected. The attacher must provide the Borough with access to the disconnect by providing keys or combination to the lock. Disconnect and meter boxes must be installed according to the Borough's standards.
12. Where required, two RF warning signs must be installed. One RF warning sign must be placed at eye level, a second sign must be placed at the pole top, just beyond where the safe approach distance ends. The sign must include the owner's name, contact number, and the approach distance of the antenna
 - The Applicant must provide the Borough with documentation that confirms all RF emissions comply with applicable laws governing RF exposure levels
13. Applicants seeking to attach antennas to streetlight arms must provide the Borough with the following:
 - Spec sheets and design information for the equipment proposed for attachment;
 - Maps detailing locations for proposed attachment.
14. The Borough must review and approve the design and mounting requirements for antennas.
15. All antennas must clamp to the streetlight arm. Holes drilled in the arm or bracket will not be permitted.

**Appendix E—
Distribution Line Minimum Design Review Information and
Suggested Worksheet**

The following guidelines are provided, and corresponding information must be submitted with each Permit application for Pole Attachments on the Borough's system. The Borough may direct that certain Attachments do not require the submittal of Design Review Information. These Attachments are noted at the end of this section.

Each Permit application must include a report from a professional engineer registered to practice in the state of Pennsylvania, and experienced in electric utility system design, or a Borough-approved employee or contractor of Licensee. This report must clearly identify the proposed construction and must verify that the Attachments proposed will maintain the Borough's compliance with NESC Class B construction for the loading district as outlined in the NESC Section 25.

The Borough may or may not require that all of the following information be submitted at the time of the Permit application. The applicant shall have performed all required calculations and be ready to provide the detailed information below within fifteen (15) calendar days of notice. Applicant shall keep copies of the engineering data available for a period of twenty (20) years.

In determining compliance, the following minimum conditions shall be used in the calculations for pole strength:

1. All single-phase lines shall be assumed to have been reconducted to 4/0 AWG ACSR conductors for both phase and neutral. If a larger conductor size exists, the larger size shall be used in the calculations.
2. All three-phase lines shall be assumed to

have been to 336.4 MCM ACSR conductors for three (3) phases and neutral. If existing conductors are larger than 336.4 MCM ACSR, the larger size shall be used in the calculations.

3. All pole lines shall assume a secondary/service conductor, installed from pole to pole, of #4/0 AWG triplex cable, with an ACSR messenger. If existing conductors are larger than #4/0 AWG triplex cable, the larger size shall be used in the calculations.
4. For pole strength calculations, all poles shall be as they actually exist, or be considered Class 4 for calculations.
5. All line angles or dead ends shall be guyed and anchored. Transverse pole strength shall not be assigned to attaching pole users for line angles, i.e., pole should be viewed as being void of other cables, conductors, wires, or guys and considering only the applicant's wires/cables for guying calculations.
6. Points of attachment shall be as they actually exist on the poles.
7. For a Borough-approved joint use of anchors, the Licensee shall utilize guy insulators in its guys.
6. Lessee shall comply with any NESC and/or Borough safety factors, whichever are more conservative, in their designs. The engineer for the Permit applicant shall provide for each application the following confirmations:

BOROUGH OF MIFFLINBURG
POLE ATTACHMENT DATA SHEET - CABLE REQUEST FORM FOR BOROUGH OF MIFFLINBURG

Pole No. <u>Mifflinburg Electric Pole #:</u> _____ Street Location _____ City/Boro/Township <u>Mifflinburg</u>		Telco Pole No. _____ Name of Attacher _____ Date _____	
Attachment Type Cable <input type="checkbox"/> Cabinet <input type="checkbox"/> Guy Pole <input type="checkbox"/> Anchor Guy <input type="checkbox"/>			
Pole Size _____ Transformer/Device on pole <input type="checkbox"/> Yes <input type="checkbox"/> No		Street Light <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Conduit Riser <input type="checkbox"/> Yes <input type="checkbox"/> No Height of Lowest Point of Street Light Bracket _____ Height of Lowest Point of Street Light Drop Loop _____ Primary <input type="checkbox"/> Yes Secondary <input type="checkbox"/> Yes	
<input type="checkbox"/> Guying will be required for angle, corner or tap pole construction			<input type="checkbox"/> Guying is not required
NOTE: *ALL HEIGHTS ARE ABOVE GROUND LEVEL			
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Lowest <u>Neutral</u> <input type="checkbox"/> or <u>Secondary</u> <input type="checkbox"/> (Check One)</p> <p>_____ Mid-Span Ht. Front <input type="checkbox"/> / Back <input type="checkbox"/></p> <p style="text-align: right;">Top of Conduit Riser → Ht. _____ (If Below Neutral or Secondary)</p> <p style="text-align: center;">↑</p> <p>_____ Mid-Span Ht. Front <input type="checkbox"/> / Back <input type="checkbox"/></p> <p style="text-align: center;">↑</p> <p>_____ Mid-Span Ht. Front <input type="checkbox"/> / Back <input type="checkbox"/></p> <p style="text-align: center;">↑</p> <p>_____ Mid-Span Ht. Front <input type="checkbox"/> / Back <input type="checkbox"/></p> <p>SPAN CROSSES OVER (CHECK ALL THAT APPLY BELOW) AT MID-SPAN HEIGHT OF _____ FT.</p> <p>YARD <input type="checkbox"/> - FIELD <input type="checkbox"/> - DRIVEWAY <input type="checkbox"/> - PARKING LOT ROADWAY <input type="checkbox"/> - SWIMMING POOL <input type="checkbox"/> - BODY OF WATER <input type="checkbox"/> - RAILROAD <input type="checkbox"/> - PA TURNPIKE <input type="checkbox"/></p> </div> <div style="width: 10%; text-align: center;"> <p>Pole Side* (Check One)</p> <div style="border: 1px solid black; padding: 5px; margin: 5px;"> <input checked="" type="checkbox"/> </div> <div style="border: 1px solid black; padding: 5px; margin: 5px;"> <input type="checkbox"/> </div> <div style="border: 1px solid black; padding: 5px; margin: 5px;"> <input type="checkbox"/> </div> <div style="border: 1px solid black; padding: 5px; margin: 5px;"> <input type="checkbox"/> </div> <div style="border: 1px solid black; padding: 5px; margin: 5px;"> <input type="checkbox"/> </div> </div> </div> <div style="width: 45%;"> <p>Lowest <u>Neutral</u> <input type="checkbox"/> or <u>Secondary</u> <input type="checkbox"/> (Check One)</p> <p>← Attach. Ht. _____ _____ Mid-Span Ht. _____</p> <p>← Ht. of Lowest Service or Secondary Secondary Drip Loop _____</p> <p>Proposed Attach. Ht. _____</p> <p style="text-align: center;">↑</p> <p>← Attach Ht. _____ Mid-Span Ht. _____</p> <p style="text-align: center;">↑</p> <p>← Attach Ht. _____ Mid-Span Ht. _____</p> <p style="text-align: center;">↑</p> <p>← Attach Ht. _____ Mid-Span Ht. _____</p> <p style="text-align: center;">↑</p> <p>_____ Mid-Span Ht. _____</p> <p>SPAN CROSSES OVER (CHECK ALL THAT APPLY BELOW) AT MID-SPAN HEIGHT OF _____ FT.</p> <p>YARD <input type="checkbox"/> - FIELD <input type="checkbox"/> - DRIVEWAY <input type="checkbox"/> - PARKING LOT ROADWAY <input type="checkbox"/> - SWIMMING POOL <input type="checkbox"/> - BODY OF WATER <input type="checkbox"/> - RAILROAD <input type="checkbox"/> - PA TURNPIKE <input type="checkbox"/></p> </div>			

Make Ready Work Required: ☐ Yes / Add'l. Pole Height Required: ☐ Yes

Raise: St. Lt. Brkt. _____ In. Lower: _____ Cable _____ In.

 Neutral/Secondary _____ In. _____ Cable _____ In.

 Transformer/Device _____ In. _____ Cable _____ In.

 _____ Cable _____ In. _____ Other _____ In.

 _____ (Other) _____ In. _____ Other _____ In.

Required permits that have been obtained (insert n/a if not applicable):

- _____ (y/n) U.S. Corp of Engineers.
- _____ (y/n) Highway—state, county, city.
- _____ (y/n) Railroad.
- _____ (y/n) Local zoning boards, town boards, etc.
- _____ (y/n) Joint-use permits, if required.
- _____ (y/n) Notified other pole users of contacts or crossings.

Confirm that you have:

- _____ (y/n) Obtained appropriate franchise(s).
- _____ (y/n) Obtained pole/anchor easements from landowners.
- _____ (y/n) Obtained crossing and overhang permits.
- _____ (y/n) Obtained permit to survey R/W.
- _____ (y/n) Completed State of Department of Transportation requirements.
- _____ (y/n) Placed permit number on plans.
- _____ (y/n) Complied with Underground Facility Location requirements.
- _____ (y/n) Included sag/tension data on proposed cable.

Calculations are based upon the latest edition of the NESC and the latest editions of the requirements of the state of Pennsylvania.

It is Licensee's responsibility to obtain all necessary permits and provide the Borough with a copy of each.

The engineer for the Permit applicant shall provide for each Pole(s) the following information:

Project ID

Pole number _____ [if pole tag missing, contact Borough]

Pole class _____ [existing—i.e., 4, 3, 2...]

Pole size _____ [existing—i.e., 35, 40...]

Pole type _____ [Southern Yellow Pine, Douglas Fir...]

Pole fore span _____ [feet]

Pole fore span direction _____ [degrees from Magnetic North]

Pole back span _____ [feet]

Pole back span direction _____ [degrees from Magnetic North]

Calculated bending
moment at ground level _____ [ft-lbs]

Existing:

Power phase condition _____ quantity of _____ AWG/MCM
_____ CU/AA/ACSR @ _____ feet above ground line

Power neutral condition _____ quantity of _____ AWG/MCM
_____ CU/AA/ACSR @ _____ feet above ground line

Power sec condition _____ quantity of _____ AWG/MCM
_____ CU/AA/ACSR @ _____ feet above ground line

Power service #1 _____ qty of _____ size @ _____ ft above ground line
@ _____ ° _____ ' _____ "

Power service #2 _____ qty of _____ size @ _____ ft above ground line
@ _____ ° _____ ' _____ "

Power service #3 _____ qty of _____ size @ _____ ft above ground line
@ _____ ° _____ ' _____ "

Telco #1 cables _____ qty of _____ dia @ _____ ft above ground line

Telco service #1 _____ qty of _____ size @ _____ ft above ground line
@ _____ ° _____ ' _____ "

Telco service #2 _____ qty of _____ size @ _____ ft above ground line
@ _____ ° _____ ' _____ "

CATV #2 cables _____ qty of _____ dia @ _____ ft above ground line

CATV service #1 _____ qty of _____ size @ _____ ft above ground line
@ _____ ° _____ ' _____ "

CATV service #2 _____ qty of _____ size @ _____ ft above ground line
@ _____ ° _____ ' _____ "

User #3 cables _____ qty of _____ dia @ _____ ft above ground line

User #4 cables _____ qty of _____ dia @ _____ ft above ground line

User #5 cables _____ qty of _____ dia @ _____ ft above ground line

User #6 cables _____ qty of _____ dia @ _____ ft above ground line

Equipment #1 type _____ qty of _____ size @ _____ ft above ground line

Equipment #1 type _____ qty of _____ size @ _____ ft above ground line

Equipment #1 type _____ qty of _____ size @ _____ ft above ground line

Equipment #1 type _____ qty of _____ size @ _____ ft above ground line

Proposed:

Proposed cables _____ qty of _____ dia @ _____ ft above ground line
fore and back span direction _____ ° _____ ' _____ " , _____ ° _____ ' _____ "

Proposed cables _____ qty of _____ dia @ _____ ft above ground line
fore and back span direction _____ ° _____ ' _____ " , _____ ° _____ ' _____ "

Equipment #1 type _____ qty of _____ size @ _____ ft above ground line

Equipment #2 type _____ qty of _____ size @ _____ ft above ground line

AGL=Above Ground Level

The minimum vertical clearance under all loading conditions measured from the proposed cable to ground level on each conductor span shall be stated above. Variations in topography resulting in ground elevation changes shall be considered when stating the minimum vertical clearance within a given span.

Calculated pole bending moment at ground level: _____ [ft-

lbs] Pole breaking bending moment at ground level: _____ [ft-

lbs] Calculated transverse safety factor: _____ [ratio should be greater than 1.00]

Proposed loading data [provide similar data for each cable proposed]

A. Weight data (cable and messenger)

1. Vertical weight, bare = _____ [# / ft]

B. Tension data (final tensions on messenger)

1. NESC maximum load for area of construction: _____ [lbs]

2. 60° F, NO wind: _____ [lbs]

Permit applicant's engineer shall provide for each transverse guy, or dead end to which guys and/or anchors are attached, the following information:

Pole number _____

Calculated cable messenger tension under NESC maximum loading conditions _____ [lbs]

If connection is:

A dead end, is it a single or double? _____ [S, D]

A change in tension, what is change? _____ [lbs]

A line angle, what is angle change? _____ [degrees]

What is tension change at angle? _____ [lbs]

For each dead end:

Point of attachment for guy hook _____ [feet AGL]

Anchor distance from pole _____ [feet]

Calculated guy tension _____ [lbs]

Rated guy working strength _____ [lbs]

For each change in tension:

Point of attachment for guy hook _____ [feet AGL]

Anchor distance from pole _____ [feet]

Calculated guy tension _____ [lbs]

Rated guy working strength _____ [lbs]

For each line angle:

Point of attachment for guy hook _____ [feet AGL]

Anchor distance from pole _____ [feet]

Calculated guy tension _____ [lbs]

Rated guy working strength _____ [lbs]

For each anchor:

Anchor distance to nearest anchor _____ [feet]

Calculated anchor tension _____ [lbs]

Rated anchor strength _____ [lbs]

Soil composition _____ [sandy, loam, clay, rock]

For each dead end:

Point of attachment for guy hook _____ [feet AGL]

Anchor distance from pole _____ [feet]

Calculated guy tension _____ [lbs]

Rated guy working strength _____ [lbs]

For each change in tension:

Point of attachment for guy hook _____ [feet AGL]

Anchor distance from pole _____ [feet]

Calculated guy tension _____ [lbs]

Rated guy working strength _____ [lbs]

For each line angle:

Point of attachment for guy hook _____ [feet AGL]

Anchor distance from pole _____ [feet]

Calculated guy tension _____ [lbs]

Rated guy working strength _____ [lbs]

For each anchor:

Anchor distance to nearest anchor _____ [feet]

Calculated anchor tension _____ [lbs]

Rated anchor strength _____ [lbs]

Soil composition _____ [sandy, loam, clay, rock]

Appendix F—
Field Data Summary Sheet Instructions

Column	Instructions
Borough Pole Number	If a Pole stencil is not in place, it may be left for Borough if the accompanying sketch is adequate to determine the Location.
Communication Company's Plan Sheet Pole Number	This must correspond with the plan sheet or Pole Sketch Pole identification number.
Pole Height and Class	List the present Pole height and class and list the proposed Pole height and class if it is necessary for Borough to replace the Pole for clearance, etc.
Guy Attachments	All unbalanced loading on Poles must be guyed. Attachments to the Borough's anchors will not be allowed.
Attachment Height	Communications Company attachment height above ground level. List guy lead in feet.
Inches Below Borough	The number of inches Communications Company is to be attached below Borough while maintaining clearance as required in Item #4.
Span Length	List the back span length for each attachment.
Inches Sag	List the messenger sag for the design listed on the cover sheet at 60 degrees Fahrenheit.
Ground Clearance	List the ground clearance at the low point of the back span. Must not be less than the <i>National Electrical Safety Code</i> (latest edition).

APPENDIX C

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project Name:	Mifflinburg Area School District Fiber Optic Cable Installation
Awarding Agency:	Mifflinburg Area School District
Contract Award Date:	4/9/2019
Serial Number:	19-00405
Project Classification:	Building/Highway
Determination Date:	1/17/2019
Assigned Field Office:	Harrisburg
Field Office Phone Number:	(717)787-4763
Toll Free Phone Number:	(800)932-0665
Project County:	Union County

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 19-00405 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Asbestos & Insulation Workers	7/1/2019		\$34.48	\$20.52	\$55.00
Asbestos & Insulation Workers	7/1/2018		\$34.83	\$19.17	\$54.00
Asbestos & Insulation Workers	7/1/2016		\$34.48	\$18.52	\$53.00
Boilermaker (Commercial, Institutional, and Minor Repair Work)	1/1/2019		\$29.26	\$18.48	\$47.74
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2018		\$29.52	\$18.22	\$47.74
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2017		\$28.52	\$18.22	\$46.74
Boilermakers	1/1/2019		\$45.51	\$34.11	\$79.62
Boilermakers	3/1/2018		\$45.89	\$33.73	\$79.62
Boilermakers	1/1/2018		\$46.26	\$33.36	\$79.62
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2020		\$34.17	\$17.64	\$51.81
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2021		\$34.78	\$18.13	\$52.91
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2019		\$33.63	\$17.18	\$50.81
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2017		\$32.77	\$16.34	\$49.11
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2018		\$33.16	\$16.75	\$49.91
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2017		\$28.88	\$15.75	\$44.63
Cement Finishers	6/1/2016		\$32.43	\$11.35	\$43.78
Cement Masons	6/1/2018	5/31/2021	\$33.43	\$12.50	\$45.93
Drywall Finisher	5/1/2017		\$27.81	\$18.17	\$45.98
Electricians	9/1/2019	8/31/2020	\$34.15	\$24.88	\$59.03
Electricians	9/1/2020		\$35.15	\$25.69	\$60.84
Electricians	9/1/2018	8/31/2019	\$33.15	\$24.12	\$57.27
Electricians	9/1/2017		\$32.15	\$23.42	\$55.57
Elevator Constructor	1/1/2018		\$45.35	\$33.00	\$78.35
Elevator Constructor	1/1/2017		\$43.98	\$31.89	\$75.87
Glazier	5/1/2016		\$29.02	\$15.51	\$44.53
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2019		\$33.76	\$28.42	\$62.18
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2017		\$31.33	\$28.42	\$59.75
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2018		\$32.53	\$28.42	\$60.95
Laborers (Class 01 - See notes)	5/1/2020		\$22.22	\$15.13	\$37.35
Laborers (Class 01 - See notes)	5/1/2019		\$21.77	\$14.53	\$36.30
Laborers (Class 01 - See notes)	5/1/2017		\$20.87	\$13.33	\$34.20
Laborers (Class 01 - See notes)	5/1/2018		\$21.32	\$13.93	\$35.25
Laborers (Class 02 - See notes)	5/1/2020		\$24.22	\$15.13	\$39.35
Laborers (Class 02 - See notes)	5/1/2019		\$23.77	\$14.53	\$38.30
Laborers (Class 02 - See notes)	5/1/2018		\$23.32	\$13.93	\$37.25
Laborers (Class 02 - See notes)	5/1/2017		\$22.87	\$13.33	\$36.20

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 19-00405 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total -
Laborers (Class 03 - See notes)	5/1/2017		\$24.31	\$13.62	\$37.93
Laborers (Class 03 - See notes)	5/1/2018		\$24.81	\$14.22	\$39.03
Laborers (Class 03 - See notes)	5/1/2019		\$25.36	\$14.82	\$40.18
Laborers (Class 03 - See notes)	5/1/2020		\$24.22	\$15.13	\$39.35
Laborers (Class 04 - See notes)	5/1/2018		\$26.31	\$14.22	\$40.53
Laborers (Class 04 - See notes)	5/1/2020		\$24.22	\$15.13	\$39.35
Laborers (Class 04 - See notes)	5/1/2017		\$25.81	\$13.62	\$39.43
Laborers (Class 04 - See notes)	5/1/2019		\$26.86	\$14.82	\$41.68
Laborers (Class 05 - See notes)	5/1/2017		\$26.31	\$13.62	\$39.93
Laborers (Class 05 - See notes)	5/1/2020		\$24.22	\$15.13	\$39.35
Laborers (Class 05 - See notes)	5/1/2019		\$27.36	\$14.82	\$42.18
Laborers (Class 05 - See notes)	5/1/2018		\$26.81	\$14.22	\$41.03
Laborers (Class 06 - See notes)	5/1/2018		\$23.32	\$13.93	\$37.25
Laborers (Class 06 - See notes)	5/1/2019		\$23.77	\$14.53	\$38.30
Laborers (Class 06 - See notes)	5/1/2020		\$24.22	\$15.13	\$39.35
Laborers (Class 06 - See notes)	5/1/2017		\$22.87	\$13.33	\$36.20
Marble Mason	5/1/2017		\$29.27	\$15.62	\$44.89
Marble Mason	5/1/2018		\$29.88	\$16.01	\$45.89
Marble Mason	5/1/2019		\$30.46	\$16.43	\$46.89
Marble Mason	5/1/2020		\$31.02	\$16.87	\$47.89
Marble Mason	5/1/2021		\$31.55	\$17.34	\$48.89
Millwright	5/1/2018	4/30/2019	\$34.41	\$18.64	\$53.05
Millwright	5/1/2020		\$36.04	\$19.31	\$55.35
Millwright	5/1/2017		\$33.79	\$18.16	\$51.95
Millwright	5/1/2019	4/30/2020	\$35.30	\$18.90	\$54.20
Operators (Building, Class 01 - See Notes)	5/1/2019		\$38.32	\$25.49	\$63.81
Operators (Building, Class 01 - See Notes)	5/1/2021		\$41.41	\$26.40	\$67.81
Operators (Building, Class 01 - See Notes)	5/1/2018		\$36.78	\$25.03	\$61.81
Operators (Building, Class 01 - See Notes)	5/1/2020		\$39.87	\$25.94	\$65.81
Operators (Building, Class 01 - See Notes)	5/1/2017		\$35.24	\$24.58	\$59.82
Operators (Building, Class 01A - See Notes)	5/1/2019		\$40.57	\$26.15	\$66.72
Operators (Building, Class 01A - See Notes)	5/1/2020		\$42.12	\$26.60	\$68.72
Operators (Building, Class 01A - See Notes)	5/1/2018		\$39.03	\$25.69	\$64.72
Operators (Building, Class 01A - See Notes)	5/1/2021		\$43.66	\$27.06	\$70.72
Operators (Building, Class 01A - See Notes)	5/1/2017		\$37.49	\$25.23	\$62.72
Operators (Building, Class 02 - See Notes)	5/1/2019		\$38.05	\$25.39	\$63.44
Operators (Building, Class 02 - See Notes)	5/1/2020		\$39.59	\$25.84	\$65.43
Operators (Building, Class 02 - See Notes)	5/1/2018		\$36.50	\$24.95	\$61.45
Operators (Building, Class 02 - See Notes)	5/1/2021		\$41.13	\$26.30	\$67.43
Operators (Building, Class 02 - See Notes)	5/1/2017		\$34.96	\$24.49	\$59.45
Operators (Building, Class 02A - See Notes)	5/1/2018		\$38.75	\$25.61	\$64.36
Operators (Building, Class 02A - See Notes)	5/1/2019		\$40.30	\$26.06	\$66.36
Operators (Building, Class 02A - See Notes)	5/1/2021		\$43.38	\$26.98	\$70.36
Operators (Building, Class 02A - See Notes)	5/1/2017		\$37.21	\$25.16	\$62.37

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 19-00405 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Building, Class 03 - See Notes)	5/1/2021		\$38.41	\$25.50	\$63.91
Operators (Building, Class 03 - See Notes)	5/1/2017		\$32.23	\$23.68	\$55.91
Operators (Building, Class 03 - See Notes)	5/1/2020		\$36.86	\$25.05	\$61.91
Operators (Building, Class 03 - See Notes)	5/1/2018		\$33.78	\$24.12	\$57.90
Operators (Building, Class 03 - See Notes)	5/1/2019		\$35.32	\$24.59	\$59.91
Operators (Building, Class 04 - See Notes)	5/1/2021		\$37.26	\$25.18	\$62.44
Operators (Building, Class 04 - See Notes)	5/1/2019		\$34.17	\$24.27	\$58.44
Operators (Building, Class 04 - See Notes)	5/1/2020		\$35.73	\$24.71	\$60.44
Operators (Building, Class 04 - See Notes)	5/1/2017		\$30.33	\$22.12	\$52.45
Operators (Building, Class 04 - See Notes)	5/1/2018		\$32.63	\$23.80	\$56.43
Operators (Building, Class 05 - See Notes)	5/1/2020		\$35.28	\$24.59	\$59.87
Operators (Building, Class 05 - See Notes)	5/1/2018		\$32.18	\$23.69	\$55.87
Operators (Building, Class 05 - See Notes)	5/1/2017		\$29.87	\$21.99	\$51.86
Operators (Building, Class 05 - See Notes)	5/1/2019		\$33.73	\$24.14	\$57.87
Operators (Building, Class 05 - See Notes)	5/1/2021		\$36.82	\$25.04	\$61.86
Operators (Building, Class 06 - See Notes)	5/1/2020		\$34.40	\$24.32	\$58.72
Operators (Building, Class 06 - See Notes)	5/1/2019		\$32.86	\$23.86	\$56.72
Operators (Building, Class 06 - See Notes)	5/1/2018		\$31.31	\$23.41	\$54.72
Operators (Building, Class 06 - See Notes)	5/1/2017		\$29.00	\$21.72	\$50.72
Operators (Building, Class 06 - See Notes)	5/1/2021		\$35.95	\$24.77	\$60.72
Operators (Building, Class 07A- See Notes)	5/1/2020		\$48.00	\$29.77	\$77.77
Operators (Building, Class 07A- See Notes)	5/1/2018		\$44.29	\$28.68	\$72.97
Operators (Building, Class 07A- See Notes)	5/1/2019		\$46.15	\$29.22	\$75.37
Operators (Building, Class 07A- See Notes)	5/1/2021		\$49.86	\$30.31	\$80.17
Operators (Building, Class 07A- See Notes)	5/1/2017		\$42.44	\$28.13	\$70.57
Operators (Building, Class 07B- See Notes)	5/1/2019		\$45.80	\$29.12	\$74.92
Operators (Building, Class 07B- See Notes)	5/1/2020		\$47.65	\$29.67	\$77.32
Operators (Building, Class 07B- See Notes)	5/1/2017		\$42.09	\$28.03	\$70.12
Operators (Building, Class 07B- See Notes)	5/1/2018		\$43.95	\$28.58	\$72.53
Operators (Building, Class 07B- See Notes)	5/1/2021		\$49.51	\$30.20	\$79.71
Painters Class 1 (see notes)	5/1/2017		\$27.25	\$18.17	\$45.42
Painters Class 2 (see notes)	5/1/2017		\$30.15	\$18.17	\$48.32
Painters Class 3 (see notes)	5/1/2017		\$36.25	\$18.17	\$54.42
Pile Driver Divers (Building, Heavy, Highway)	1/1/2017		\$49.13	\$17.95	\$67.08
Piledrivers	1/1/2019		\$34.30	\$19.30	\$53.60
Piledrivers	1/1/2018		\$33.55	\$18.55	\$52.10
Plasterers	6/1/2016		\$32.94	\$10.92	\$43.86
Plasterers	6/1/2018	5/31/2021	\$33.51	\$12.50	\$46.01
Plumber/Pipefitter	5/1/2017		\$35.82	\$24.51	\$60.33
Plumber/Pipefitter	5/1/2018	4/30/2019	\$36.87	\$25.26	\$62.13
Roofers (Composition)	5/1/2018		\$37.15	\$31.27	\$68.42
Roofers (Composition)	5/1/2017		\$36.15	\$30.22	\$66.37
Roofers (Shingle)	5/1/2016		\$25.70	\$19.17	\$44.87
Roofers (Shingle, Slate, Tile)	5/1/2018		\$27.50	\$20.37	\$47.87

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 19-00405 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Roofers (Slate & Tile)	5/1/2018		\$30.50	\$20.37	\$50.87
Roofers (Slate & Tile)	5/1/2016		\$28.70	\$19.17	\$47.87
Sheet Metal Workers	5/1/2018	4/30/2019	\$30.63	\$23.73	\$54.36
Sheet Metal Workers	5/1/2017		\$30.61	\$22.95	\$53.56
Sprinklerfitters	4/1/2017		\$37.40	\$21.74	\$59.14
Sprinklerfitters	4/1/2018		\$38.80	\$22.74	\$61.54
Terrazzo Finisher	5/1/2019		\$33.04	\$16.22	\$49.26
Terrazzo Finisher	5/1/2017		\$31.64	\$15.62	\$47.26
Terrazzo Finisher	5/1/2018		\$32.35	\$15.91	\$48.26
Terrazzo Setter	5/1/2017		\$30.63	\$18.85	\$49.48
Terrazzo Setter	5/1/2018		\$31.23	\$19.25	\$50.48
Terrazzo Setter	5/1/2019		\$31.81	\$19.67	\$51.48
Tile & Marble Finisher	5/1/2017		\$26.89	\$13.86	\$40.75
Tile & Marble Finisher	5/1/2021		\$29.61	\$15.14	\$44.75
Tile & Marble Finisher	5/1/2020		\$28.96	\$14.79	\$43.75
Tile & Marble Finisher	5/1/2018		\$27.60	\$14.15	\$41.75
Tile & Marble Finisher	5/1/2019		\$28.29	\$14.46	\$42.75
Tile Setter	5/1/2019		\$30.46	\$16.43	\$46.89
Tile Setter	5/1/2020		\$31.02	\$16.87	\$47.89
Tile Setter	5/1/2017		\$29.27	\$15.62	\$44.89
Tile Setter	5/1/2018		\$29.88	\$16.01	\$45.89
Tile Setter	5/1/2021		\$31.55	\$17.34	\$48.89
Truckdriver class 1(see notes)	5/1/2019		\$36.12	\$0.00	\$36.12
Truckdriver class 1(see notes)	5/1/2018		\$35.32	\$0.00	\$35.32
Truckdriver class 1(see notes)	5/1/2017		\$34.47	\$0.00	\$34.47
Truckdriver class 2 (see notes)	5/1/2019		\$36.19	\$0.00	\$36.19
Truckdriver class 2 (see notes)	5/1/2018		\$35.39	\$0.00	\$35.39
Truckdriver class 2 (see notes)	5/1/2017		\$34.54	\$0.00	\$34.54
Truckdriver class 3 (see notes)	5/1/2019		\$36.68	\$0.00	\$36.68
Truckdriver class 3 (see notes)	5/1/2018		\$35.88	\$0.00	\$35.88
Truckdriver class 3 (see notes)	5/1/2017		\$35.03	\$0.00	\$35.03

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 19-00405 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Carpenter	5/1/2019		\$31.51	\$16.55	\$48.06
Carpenter	5/1/2018		\$30.75	\$15.96	\$46.71
Carpenter	5/1/2020		\$32.22	\$17.19	\$49.41
Carpenter	5/1/2021		\$33.12	\$17.74	\$50.86
Carpenters	5/1/2016		\$29.67	\$14.54	\$44.21
Carpenters	5/1/2017		\$30.12	\$15.34	\$45.46
Cement Finishers	6/1/2016		\$32.43	\$11.35	\$43.78
Electric Lineman	1/1/2018		\$55.43	\$22.48	\$77.91
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2017		\$31.33	\$28.42	\$59.75
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2018		\$32.53	\$28.42	\$60.95
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2019		\$33.76	\$28.42	\$62.18
Laborers (Class 01 - See notes)	5/1/2019		\$21.61	\$17.29	\$38.90
Laborers (Class 01 - See notes)	5/1/2016		\$19.81	\$15.79	\$35.60
Laborers (Class 01 - See notes)	5/1/2017		\$20.36	\$16.29	\$36.65
Laborers (Class 01 - See notes)	5/1/2018		\$20.96	\$16.79	\$37.75
Laborers (Class 02 - See notes)	5/1/2018		\$27.58	\$16.79	\$44.37
Laborers (Class 02 - See notes)	5/1/2019		\$28.23	\$17.29	\$45.52
Laborers (Class 02 - See notes)	5/1/2016		\$26.43	\$15.79	\$42.22
Laborers (Class 02 - See notes)	5/1/2017		\$26.98	\$16.29	\$43.27
Laborers (Class 03 - See notes)	5/1/2019		\$25.22	\$17.29	\$42.51
Laborers (Class 03 - See notes)	5/1/2016		\$23.42	\$15.79	\$39.21
Laborers (Class 03 - See notes)	5/1/2017		\$23.97	\$16.29	\$40.26
Laborers (Class 03 - See notes)	5/1/2018		\$24.57	\$16.79	\$41.36
Laborers (Class 04 - See notes)	5/1/2017		\$24.32	\$16.29	\$40.61
Laborers (Class 04 - See notes)	5/1/2019		\$25.57	\$17.29	\$42.86
Laborers (Class 04 - See notes)	5/1/2018		\$24.92	\$16.79	\$41.71
Laborers (Class 04 - See notes)	5/1/2016		\$23.77	\$15.79	\$39.56
Laborers (Class 05 - See notes)	5/1/2016		\$24.44	\$15.79	\$40.23
Laborers (Class 05 - See notes)	5/1/2018		\$25.59	\$16.79	\$42.38
Laborers (Class 05 - See notes)	5/1/2017		\$24.99	\$16.29	\$41.28
Laborers (Class 05 - See notes)	5/1/2019		\$26.24	\$17.29	\$43.53
Laborers (Class 06 - See notes)	5/1/2016		\$23.86	\$15.79	\$39.65
Laborers (Class 06 - See notes)	5/1/2017		\$24.41	\$16.29	\$40.70
Laborers (Class 06 - See notes)	5/1/2019		\$25.66	\$17.29	\$42.95
Laborers (Class 06 - See notes)	5/1/2018		\$25.01	\$16.79	\$41.80
Laborers (Class 07 - See notes)	5/1/2019		\$25.95	\$17.29	\$43.24
Laborers (Class 07 - See notes)	5/1/2018		\$25.30	\$16.79	\$42.09
Laborers (Class 07 - See notes)	5/1/2017		\$24.70	\$16.29	\$40.99
Laborers (Class 07 - See notes)	5/1/2016		\$24.15	\$15.79	\$39.94
Laborers (Class 08 - See notes)	5/1/2019		\$26.43	\$17.29	\$43.72
Laborers (Class 08 - See notes)	5/1/2017		\$25.18	\$16.29	\$41.47
Laborers (Class 08 - See notes)	5/1/2016		\$24.63	\$15.79	\$40.42

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 19-00405 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 08 - See notes)	5/1/2018		\$25.78	\$16.79	\$42.57
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2016		\$32.16	\$22.64	\$54.80
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2020		\$38.44	\$25.52	\$63.96
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2021		\$39.98	\$25.97	\$65.95
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2019		\$36.90	\$25.06	\$61.96
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2018		\$35.35	\$24.61	\$59.96
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2017		\$33.80	\$24.16	\$57.96
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2017		\$36.05	\$24.82	\$60.87
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2020		\$40.69	\$26.19	\$66.88
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2021		\$42.24	\$26.64	\$68.88
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2018		\$37.60	\$25.27	\$62.87
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2019		\$39.14	\$25.73	\$64.87
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2017		\$33.52	\$24.07	\$57.59
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2019		\$36.61	\$24.98	\$61.59
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2018		\$35.07	\$24.52	\$59.59
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2021		\$39.70	\$25.89	\$65.59
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2020		\$38.16	\$25.44	\$63.60
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2021		\$41.95	\$26.56	\$68.51
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2019		\$38.87	\$25.64	\$64.51
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2020		\$40.41	\$26.10	\$66.51
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2017		\$35.78	\$24.72	\$60.50
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2018		\$37.32	\$25.19	\$62.51
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2019		\$33.69	\$24.11	\$57.80
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2021		\$36.78	\$25.03	\$61.81
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2018		\$32.15	\$23.66	\$55.81
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2020		\$35.23	\$24.57	\$59.80
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2017		\$30.60	\$23.21	\$53.81
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2018		\$31.01	\$23.32	\$54.33
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2017		\$29.47	\$22.88	\$52.35
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2020		\$33.65	\$24.11	\$57.76
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2019		\$32.55	\$23.78	\$56.33
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2021		\$35.64	\$24.69	\$60.33
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2019		\$32.11	\$23.65	\$55.76
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2020		\$33.65	\$24.11	\$57.76
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2021		\$35.20	\$24.56	\$59.76
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2018		\$30.56	\$23.20	\$53.76
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2017		\$29.02	\$22.74	\$51.76
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2021		\$34.31	\$24.31	\$58.62
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2017		\$28.14	\$22.49	\$50.63
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2020		\$32.78	\$23.84	\$56.62
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2019		\$31.22	\$23.40	\$54.62
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2018		\$29.68	\$22.93	\$52.61
Operators (Heavy, Class 07A - See Notes)	5/1/2020		\$46.28	\$29.27	\$75.55
Operators (Heavy, Class 07A - See Notes)	5/1/2019		\$44.43	\$28.73	\$73.16

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 19-00405 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Heavy, Class 07A - See Notes)	5/1/2021		\$48.14	\$29.83	\$77.97
Operators (Heavy, Class 07A - See Notes)	5/1/2017		\$40.73	\$27.63	\$68.36
Operators (Heavy, Class 07A - See Notes)	5/1/2018		\$42.58	\$28.18	\$70.76
Operators (Heavy, Class 07B - See Notes)	5/1/2020		\$45.94	\$29.17	\$75.11
Operators (Heavy, Class 07B - See Notes)	5/1/2021		\$47.79	\$29.71	\$77.50
Operators (Heavy, Class 07B - See Notes)	5/1/2019		\$44.09	\$28.63	\$72.72
Operators (Heavy, Class 07B - See Notes)	5/1/2017		\$40.38	\$27.53	\$67.91
Operators (Heavy, Class 07B - See Notes)	5/1/2018		\$42.23	\$28.09	\$70.32
Operators (Highway, Class 01 - See Notes)	5/1/2019		\$36.02	\$24.79	\$60.81
Operators (Highway, Class 01 - See Notes)	5/1/2020		\$37.56	\$25.24	\$62.80
Operators (Highway, Class 01 - See Notes)	5/1/2018		\$34.47	\$24.33	\$58.80
Operators (Highway, Class 01 - See Notes)	5/1/2016		\$32.16	\$22.64	\$54.80
Operators (Highway, Class 01 - See Notes)	5/1/2017		\$32.93	\$23.87	\$56.80
Operators (Highway, Class 01 - See Notes)	5/1/2021		\$39.10	\$25.70	\$64.80
Operators (Highway, Class 01a - See Notes)	5/1/2021		\$41.35	\$26.38	\$67.73
Operators (Highway, Class 01a - See Notes)	5/1/2020		\$39.81	\$25.92	\$65.73
Operators (Highway, Class 01a - See Notes)	5/1/2017		\$35.18	\$24.56	\$59.74
Operators (Highway, Class 01a - See Notes)	5/1/2018		\$36.72	\$25.01	\$61.73
Operators (Highway, Class 01a - See Notes)	5/1/2019		\$38.27	\$25.46	\$63.73
Operators (Highway, Class 02 - See Notes)	5/1/2019		\$34.84	\$24.44	\$59.28
Operators (Highway, Class 02 - See Notes)	5/1/2020		\$36.38	\$24.90	\$61.28
Operators (Highway, Class 02 - See Notes)	5/1/2021		\$37.93	\$25.35	\$63.28
Operators (Highway, Class 02 - See Notes)	5/1/2016		\$30.98	\$22.31	\$53.29
Operators (Highway, Class 02 - See Notes)	5/1/2017		\$31.75	\$23.53	\$55.28
Operators (Highway, Class 02 - See Notes)	5/1/2018		\$33.30	\$23.98	\$57.28
Operators (Highway, Class 03 - See Notes)	5/1/2016		\$30.28	\$22.10	\$52.38
Operators (Highway, Class 03 - See Notes)	5/1/2020		\$35.69	\$24.69	\$60.38
Operators (Highway, Class 03 - See Notes)	5/1/2019		\$34.14	\$24.25	\$58.39
Operators (Highway, Class 03 - See Notes)	5/1/2017		\$31.06	\$23.32	\$54.38
Operators (Highway, Class 03 - See Notes)	5/1/2018		\$32.59	\$23.80	\$56.39
Operators (Highway, Class 03 - See Notes)	5/1/2021		\$37.23	\$25.16	\$62.39
Operators (Highway, Class 04 - See Notes)	5/1/2016		\$29.82	\$21.98	\$51.80
Operators (Highway, Class 04 - See Notes)	5/1/2017		\$30.60	\$23.20	\$53.80
Operators (Highway, Class 04 - See Notes)	5/1/2018		\$32.14	\$23.66	\$55.80
Operators (Highway, Class 04 - See Notes)	5/1/2020		\$35.23	\$24.57	\$59.80
Operators (Highway, Class 04 - See Notes)	5/1/2019		\$33.68	\$24.12	\$57.80
Operators (Highway, Class 04 - See Notes)	5/1/2021		\$36.77	\$25.03	\$61.80
Operators (Highway, Class 05 - See Notes)	5/1/2016		\$29.82	\$21.98	\$51.80
Operators (Highway, Class 05 - See Notes)	5/1/2021		\$36.26	\$24.87	\$61.13
Operators (Highway, Class 05 - See Notes)	5/1/2017		\$30.08	\$23.06	\$53.14
Operators (Highway, Class 05 - See Notes)	5/1/2018		\$31.63	\$23.51	\$55.14
Operators (Highway, Class 05 - See Notes)	5/1/2020		\$34.72	\$24.42	\$59.14
Operators (Highway, Class 05 - See Notes)	5/1/2019		\$33.18	\$23.97	\$57.15
Operators (Highway, Class 06 - See Notes)	5/1/2019		\$36.25	\$24.85	\$61.10

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 19-00405 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Highway, Class 06 - See Notes)	5/1/2020		\$37.79	\$25.30	\$63.09
Operators (Highway, Class 06 - See Notes)	5/1/2021		\$39.33	\$25.78	\$65.11
Operators (Highway, Class 06 - See Notes)	5/1/2017		\$33.17	\$23.94	\$57.11
Operators (Highway, Class 06 - See Notes)	5/1/2018		\$34.71	\$24.39	\$59.10
Operators (Highway, Class 06 - See Notes)	5/1/2016		\$32.40	\$22.70	\$55.10
Operators (Highway, Class 06/A - See Notes)	5/1/2021		\$41.58	\$26.43	\$68.01
Operators (Highway, Class 06/A - See Notes)	5/1/2018		\$36.96	\$25.05	\$62.01
Operators (Highway, Class 06/A - See Notes)	5/1/2016		\$34.65	\$23.36	\$58.01
Operators (Highway, Class 06/A - See Notes)	5/1/2019		\$38.50	\$25.52	\$64.02
Operators (Highway, Class 06/A - See Notes)	5/1/2017		\$35.42	\$24.59	\$60.01
Operators (Highway, Class 06/A - See Notes)	5/1/2020		\$40.04	\$25.97	\$66.01
Operators (Highway, Class 07/A - See Notes)	5/1/2019		\$43.37	\$28.41	\$71.78
Operators (Highway, Class 07/A - See Notes)	5/1/2020		\$45.23	\$28.94	\$74.17
Operators (Highway, Class 07/A - See Notes)	5/1/2016		\$38.56	\$25.99	\$64.55
Operators (Highway, Class 07/A - See Notes)	5/1/2017		\$39.66	\$27.31	\$66.97
Operators (Highway, Class 07/A - See Notes)	5/1/2018		\$41.52	\$27.84	\$69.36
Operators (Highway, Class 07/A - See Notes)	5/1/2021		\$47.08	\$29.49	\$76.57
Operators (Highway, Class 07/B - See Notes)	5/1/2021		\$45.66	\$29.08	\$74.74
Operators (Highway, Class 07/B - See Notes)	5/1/2018		\$40.10	\$27.44	\$67.54
Operators (Highway, Class 07/B - See Notes)	5/1/2020		\$43.81	\$28.53	\$72.34
Operators (Highway, Class 07/B - See Notes)	5/1/2017		\$38.25	\$26.89	\$65.14
Operators (Highway, Class 07/B - See Notes)	5/1/2019		\$43.37	\$28.41	\$71.78
Operators (Highway, Class 07/B - See Notes)	5/1/2016		\$37.17	\$25.57	\$62.74
Pile Driver Drivers (Building, Heavy, Highway)	1/1/2017		\$49.13	\$17.95	\$67.08
Piledrivers	1/1/2018		\$33.55	\$18.55	\$52.10
Piledrivers	5/1/2021		\$33.12	\$17.74	\$50.86
Piledrivers	5/1/2018		\$30.75	\$15.96	\$46.71
Piledrivers	1/1/2017		\$32.75	\$17.95	\$50.70
Piledrivers	5/1/2020		\$32.22	\$17.19	\$49.41
Piledrivers	5/1/2019		\$31.51	\$16.55	\$48.06
Piledrivers	1/1/2019		\$34.30	\$19.30	\$53.60
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2017		\$40.98	\$32.53	\$73.51
Truckdriver class 1(see notes)	5/1/2017		\$34.47	\$0.00	\$34.47
Truckdriver class 1(see notes)	5/1/2019		\$36.12	\$0.00	\$36.12
Truckdriver class 1(see notes)	5/1/2016		\$33.57	\$0.00	\$33.57
Truckdriver class 1(see notes)	5/1/2018		\$35.32	\$0.00	\$35.32
Truckdriver class 2 (see notes)	5/1/2018		\$35.39	\$0.00	\$35.39
Truckdriver class 2 (see notes)	5/1/2016		\$33.64	\$0.00	\$33.64
Truckdriver class 2 (see notes)	5/1/2019		\$36.19	\$0.00	\$36.19
Truckdriver class 2 (see notes)	5/1/2017		\$34.54	\$0.00	\$34.54
Truckdriver class 3 (see notes)	5/1/2019		\$36.68	\$0.00	\$36.68
Truckdriver class 3 (see notes)	5/1/2017		\$35.03	\$0.00	\$35.03
Truckdriver class 3 (see notes)	5/1/2016		\$34.13	\$0.00	\$34.13
Truckdriver class 3 (see notes)	5/1/2018		\$35.88	\$0.00	\$35.88