

Integrated **Design Solutions**

Project Manual

Troy School District New Baker Underground Communications TSD Bid No. 9415

IDS Project No. 03234-1000 BP 25

Project Manual

Troy School District TSD New Baker Underground Communications TSD Bid No. 9415 Troy, Michigan

for

Troy School District Technology Resource Center 4420 Livernois Road Troy, Mi 48098

Integrated Design Solutions LLC

Architecture, Engineering, Interiors & Technology 888 W Big Beaver, Suite 200 Troy, Michigan 48084 248.823.2100 Fax 248.823.2200 www.ids-troy.com

IDS Project No. 03234-1000 BP 25

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SECTION 00100 - ADVERTISEMENT FOR BIDS

DATE:	May 31, 2007			
PROJECT:	Troy School District New Baker Underground Communications TSD Bid No. 9415 Troy, Michigan			
OWNER:	Troy School District 4400 Livernois Troy, Michigan 48098			
ENGINEERING/ TECHNOLOGY DESIGNER:	Integrated Design Solutions, LLC Architecture, Engineering, Interiors & Technology 888 W. Big Beaver, Suite 200 Troy, MI 48084 (248) 823-2100 (248) 823-2200 fax			
BIDS RECEIVED:	Until 3:00 pm local time on June 14, the Owner will receive sealed Bids for the work as set forth in the Bidding Documents at:			
	Troy School District Purchasing Department 1140 Rankin Troy, Michigan 48083			
	ATTN: Frank Lams Purchasing Supervisor			
	at which time and place all Bids will be publicly opened and read aloud. A bid tabulation summary will be available.			
	will be on file on and after May 31, 2007 and may be examined at the following business hours, Monday through Friday.			
World Wide Web:				
Troy School District	http://www.troy.k12.mi.us/purchasing/items_out_for_bid.htm			
The offices of:				
Integrated Design Solution	ons, LLC, 888 W. Big Beaver, Suite 200, Troy, Michigan 48084, (248) 823-2100.			
Construction Association	n of Michigan, 43636 Woodward Ave., Bloomfield Hills, Michigan 48302, (248) 972-1000.			
F. W. Dodge Corporation, 21415 Civic Center Drive, Suite 115, Southfield, Michigan, 48034, (248) 799-0450.				

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The Technology Designer will furnish one (1) sets of documents to the bidders.

A recommended pre-bid conference is scheduled for June 7, 2007 at 9:00 AM local time. Bidders shall meet at Troy School District Services Building, 4420 Livernois, Troy, Michigan, 48098.

Each Bid shall be accompanied by a Bid Security in the form of a certified check, cashier's check, money order or bid bond made payable to Troy School District in an amount not less than five percent (5%) of the base bid as a Bid guarantee.

The successful Bidder shall provide a Performance Bond and a Labor and Material Payment Bond covering the faithful performance of the Contract and payment of all obligations arising there under, each in the amount of one hundred percent (100%) of the contract amount. The cost of such bonds shall be included in the Bid.

The bid security of Bidders under consideration will be returned immediately after execution of the Contract by the Owner. The amount of the bid security shall be forfeited to the Owner if the successful Bidder fails to enter into a contract and furnish required bonds and insurance certificates within ten (10) days after award of Contract.

Withdrawal of any Bid is prohibited for a period of sixty (60) days after the actual date of the opening thereof.

Each Bidder agrees to waive any claim it has or may have with the Owner, the Engineering/Technology Designer, Technology Consultant, and their respective employees, arising out of or in connection with the administration, evaluation, or recommendation of any bid.

The Owner reserves the right to reject any or all Bids, either in whole or in part, to reject a Bid not accompanied by the required bid security or by other data required by the Bidding Documents or to reject a Bid which is any way incomplete or irregular and to waive informality and irregularity in the bids and in the bidding.

The Owner reserves the right to accept Alternates in any order or combination and to determine the low Bidder on the basis of the sum of the base bid and the Alternates accepted.

END OF ADVERTISEMENT FOR BIDS

SECTION 00200 - INSTRUCTIONS TO BIDDERS

1. DEFINITIONS

- A. Bidding Documents include the Bidding Requirements and the proposed Contract Documents. The Bidding Requirements consist of the Advertisement for Bids, Instruction to Bidders, the Bid Form and other bidding and contract forms. The proposed Contract Documents consist of the form of Agreement between Owner and Contractor, General and Supplementary Conditions of the Contract, Specifications, Drawings and Addenda issued prior to execution of the Contract.
- B. Addenda are written or graphic instruments issued by the Architect prior to the execution of the Contract, which modify or interpret the Bidding Documents by additions, deletions, clarifications or corrections.
- C. A Bidder is a person or entity who submits a Bid.
- D. A Bid is a complete and properly signed proposal to do the work for the sums stipulated there in submitted in accordance with the Bidding Documents.
- E. The Base Bid is the amount stated in the Bid for which the Bidder offers to perform the work as described in the Bidding Documents as the base, to which work may be added to or deleted from, for the amounts stated in the Alternates.
- F. An Alternate is an amount stated in the Bid Form to be added to or deducted from the amount of the Base Bid if the described Alternate is accepted.
- G. A Unit Price is an amount stated in the Bid as a price per unit of measurement for materials, equipment or services or a portion of the work as described in the Bidding Documents.

2. SECURING BIDDING DOCUMENTS

- A. Copies of the Bidding Documents may be obtained from Integrated Design Solutions, LLC, upon conditions set forth in the Advertisement for Bids.
- B. Only complete sets of Bidding Documents will be furnished. The Owner or Architect assumes no responsibility for errors or misinterpretations resulting from use of incomplete sets of Bidding Documents.

3. PREPARATION AND SUBMISSION OF BIDS

- A. Bids shall be submitted on forms bound in the Project Manual of the Bidding Documents.
- B. All blanks on the Bid Form must be filled in by typewriter or by hand in ink.
- C. Amounts shall be expressed in both words and figures. In case of a discrepancy the amount stated in words shall govern.
- D. Alterations by erasure or interlineations must be initialed by the Bidder.
- E. All Alternates must be bid. If no change in the Base Bid is required, enter "No Change".
- F. Submit the Bid, along with the bid security and any other documents required to be submitted with the Bid, in a sealed envelope to the Owner, and deliver to the address given in the Advertisement for Bids on or before the day and hour set for receipt of the Bids.

- 1. Clearly identify the bid submission as: TROY SCHOOL DISTRICT, NEW BAKER UNDERGROUND COMMUNICATIONS, TSD BID NO. 9415, the name of the Bidder, and the date and hour of the Bid opening, with the notation "SEALED BID ENCLOSED".
- 2. Do not change the wording of the Bid Form, and do not add words to, or delete words from the Bid Form.
- 3. Unauthorized conditions, limitations, or provisions attached to the Bid will be cause for rejection of the Bid.
- 4. Submit only duplicate signed copies of the Bid.
- 5. It is the sole responsibility of the Bidder to see that his bid is received on time.
- 6. Telephonic, telegraphic, facsimile (fax), or e-mail Bids or telephonic, telegraphic, facsimile (fax) or e-mail modification of a Bid will not be considered.
- 7. Bids received after the time fixed for receiving them will not be considered and will be returned to the Bidder unopened.
- 8. Properly identified Bids received on time will be publicly opened and read aloud. A bid tabulation summary will be available.
- G. The Bidder in submitting a Bid represents that:
 - 1. The Bidder has read and understands the Bidding Documents, including the Drawings, Specifications and other proposed Contract Documents.
 - 2. The Bid is made in compliance with the Bidding Documents.
 - 3. The Bidder has visited the site of the Work and become informed as to existing conditions and limitations under which the Work is to be performed and included in their Bid a sum to cover the cost necessary to perform the Work as set forth in the Bidding Documents. No allowance will be made to a Bidder because of a lack of such examination or knowledge.
 - 4. The Bid is based upon materials, equipment and systems required by the Bidding Documents without exception and without substitutions.
 - 5. Bidders not bidding on materials, equipment and systems required by the Bidding Documents may propose voluntary alternates in space provided on Bid Form. The Owner is under no obligation to accept any voluntary alternate.

4. FAMILIAL DISCLOSURE STATEMENT

A. Each Bid shall be accompanied by the Familial Disclosure Statement in compliance with MCL.380.1267. The Bid proposal must be accompanied by a sworn and notarized statement disclosing Familial Relationship that exists between the bidder or any employee of the bidder and any member of the Board of Education of the School district, or the Superintendent of the School district. The School district will not consider a Bid Proposal that does not include this sworn and notarized Disclosure Statement.

5. BID SECURITY AND BONDS

- A. Each bid shall be accompanied by a certified check, cashier's check, money order or bid bond made payable to Troy School District in an amount not less than five percent (5%) of the Base Bid as a proposal guarantee. Bid Bond shall be provided by a company licensed to do business in the State of Michigan. Bond shall not include the costs related to lease agreement provisions.
- B. The successful Bidder shall provide a Performance Bond and a Labor and Material Payment Bond, covering the faithful performance of the Contract and payment of all obligations arising there under, each in the amount of one hundred percent (100%) of the contract amount. Bonds shall be provided by a company licensed to do business in the State of Michigan. The cost of such bonds shall be included in the Bid. Bonds shall not include the costs related to lease agreement provisions.

- C. The Bidder shall deliver the required bonds to the Owner not later than three days following the date of execution of the Contract. If the Work is to be commenced prior thereto in response to a letter of intent, the Bidder shall, prior to commencement of the Work, submit evidence satisfactory to the Owner that such bonds will be furnished and delivered in accordance with this paragraph.
- D. Should the Bidder refuse to enter into a Contract or fail to furnish such bonds, the amount of the bid security shall be forfeited to the Owner as liquidated damages, not as a penalty.
- E. The Owner will have the right to retain the bid security of Bidders to whom an award is being considered until either the Contract has been executed and bonds have been furnished or the specified time has elapsed so that the Bid may be withdrawn or all Bids have been rejected.

6. MODIFICATIONS AND WITHDRAWAL OF BIDS

- A. A Bidder may not modify, withdraw or cancel a Bid, for a period of sixty (60) days following the time and date designated for receipt of Bids, and by submitting a Bid each Bidder shall so agree.
- B. A Bidder may withdraw their Bid, either personally or by written request, at any time prior to the scheduled time for receipt of bids. A withdrawn Bid may be resubmitted up to the date and time designated for receipt of Bids.
- C. Prior to the time and date for receipt of Bids, a Bidder may modify a Bid by notice to the party receiving Bids, at the place designated for receipt of Bids. Such notice shall be in writing over the signature of the Bidder. Written confirmation over the signature of the Bidder shall be received, and date and time stamped by the receiving party on or before the date and time set for receipt of Bids. A change shall be worded as not to reveal the amount of the original Bid.

7. CONSIDERATION OF BIDS

- A. The Owner reserves the right to reject any or all Bids submitted either in whole or part, to reject a bid not accompanied by the required Bid security or by other data required by the Bidding Documents or to reject a Bid which is any way incomplete or irregular and to waive informality and irregularity in the Bids and in the Bidding.
- B. The Owner reserves the right to accept alternates in any order or combination and to determine the low Bidder on the basis of the sum of the Base Bid and the alternates accepted.

8. EXECUTION OF AGREEMENT

- A. The successful Bidder will be required to execute AIA Abbreviated Standard Form of Agreement between Owner and Contractor for Construction Projects of Limited Scope, AIA Document A107-1997.
- B. The Bidder to whom the Contract is awarded shall, within five (5) calendar days after notice of award and receipt of Contract forms from the Owner, sign and deliver required copies to the Owner.
- C. At or prior to delivery of the signed Contract, the Bidder to whom the Contract is awarded shall deliver to the Owner those Certificates of Insurance required by the Owner.
- D. The Owner shall approve Certificates of Insurance before the successful Bidder may proceed with the Work. Failure or refusal to provide Certificates of Insurance in a form satisfactory to the Owner shall subject the successful Bidder to loss of time from the allowable construction period equal to the time of delay in furnishing the required material.

9. INTERPRETATION OF CONTRACT DOCUMENTS PRIOR TO BIDDING

- A. Bidders shall study and compare the Bidding Documents with each other, shall examine the site and local conditions and if in doubt as to the true meaning of any part of the Bidding Documents, or finds discrepancies, inconsistencies, ambiguities or errors in or omissions from any part of the Bidding Documents, the Bidder may submit to the Architect a written request for interpretation thereof not later than seven days before bids will be opened. The person submitting the request shall be responsible for its prompt delivery.
- B. Interpretation, connection or changes to the proposed Contract Documents will be made only by Addendum. Explanations, interpretations, corrections or changes of the Bidding Documents by any other method will not be binding.

10. ADDENDA

- A. Addenda will be transmitted to all who are known by the Architect to have received a complete set of Bidding Documents.
- B. Copies of Addenda will be made available for inspection wherever Bidding Documents are on file.
- C. Addenda will be issued no later than four (4) days prior to the date for receipt of Bids, except an Addendum withdrawing the request for Bids or one which postpones the date for receipt of Bids.
- D. Each Bidder shall ascertain prior to submitting his bid that he has received all Addenda issued and shall acknowledge their receipt on the Bid Form.

11. SUBSTITUTIONS

- A. No substitutions will be considered prior to receipt of Bids, unless a written request for approval has been received by the Architect at least ten (10) days prior to the date for receipt of Bids. Such request for substitutions shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitution including drawings, performance and test data, samples and other information necessary for an evaluation. A statement setting forth changes in other materials, equipment or other portions of the Work, shall be included. The burden of proof of the merit of the proposed substitution is upon the proposer. The Architect's decision of approval or disapproval of a proposed substitution shall be final.
- B. If the Architect approves a proposed substitution prior to receipt of Bids, such approval will be set forth in an Addendum.
- C. No substitutions will be considered after Contract award unless specifically provided for in the Contract Documents.

12. TAXES

A. Contractor shall pay all taxes and include cost of all taxes in proposal

13. PERMITS AND FEES

A. The Contractor shall be responsible for obtaining all required transportation permits from local, county and state agencies.

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B. All required DLEG Plan Approvals shall be the responsibility of the Contractor. The Owner will provide a site plan.

14. TIME OF COMPLETION

A. The Bidder, if awarded the Contract, agrees to complete the Work on or before the Contract Completion Date stated in the Bid Form.

15. PREVAILING WAGE LAW

A. Prevailing wage rates are required.

16. EQUAL OPPORTUNITY

- A. The Contractor and the Contractor's Subcontractors shall not discriminate against any employee or applicant for employment because of race, religion, color, sex or national origin. The Contractor shall take affirmative action to insure that applicants are employed, and that employees are treated during employment without regard to their race, religion, color, sex or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the policies of non-discrimination.
- B. The Contractor and the Contractor's Subcontractors shall, in all solicitations or advertisements for employees placed by them or on their behalf, state that all qualified applicants will receive consideration for employment without regard to race, religion, color, sex or national origin.

17. POST BID INFORMATION

A. Bidders to whom Contract award is under consideration shall submit to the Architect, upon request a properly executed AIA Document A305, Contractor's Qualification Statement.

END OF SECTION 00200

SECTION 00410 - BID FORM

OWNER:	Troy School District 4400 Livernois Troy, Michigan 48098
PROJECT:	Troy School District New Baker Underground Communications TSD Bid No. 9415 Troy, Michigan
ARCHITECT:	Integrated Design Solutions, LLC Architecture, Engineering, Interiors & Technology 888 W. Big Beaver Road, Suite 200 Troy, Michigan 48084 (248) 823-2100 (248) 823-2200 fax
NAME OF BIDDER:	
ADDRESS:	
TELEPHONE:	

BID

Pursuant to and in compliance with your Advertisement for Bids Instructions to Bidders and other documents relating thereto, the undersigned proposes and agrees to furnish equipment, materials, and labor and perform all work necessary to complete the Troy School District contract for the New Baker Underground Communications TSD Bid No. 9415 Project in accordance with the Drawings and Specifications prepared by Integrated Design Solutions, LLC dated May 31, 2007 and agrees to accept payment as herein provided.

BASE BID

Lump sum bid for all work specified and shown on the Drawings as indicated for base bid

_____ Dollars (\$______).

NOTE: The amount shall be shown in both words and figures. In case of a discrepancy, the amount shown in words shall govern. The base bid shall include the bond cost.

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VOLUNTARY ALTERNATES

The following Voluntary Alternates are offered by the Bidder. Provide a complete description of each Voluntary Alternate and indicate the amount to be added to or deducted from the Base Bid should the Owner accept the Voluntary Alternate. Attach additional pages if required to explain each Voluntary Alternate.

Voluntary Alternate No. 1:		
Add/Deduct		
	Dollars (\$).
Voluntary Alternate No. 2:		
Add/Deduct		
	Dollars (\$).
Voluntary Alternate No. 3:		
Add/Deduct		
	Dollars (\$).

TAXES

The Contractor shall pay all taxes and include cost of all taxes in proposal.

BID SECURITY

Accompanying this Bid is a certified check, cashier's check, money order or bid bond (cross out those not applicable) made payable to Troy School District in the amount of five percent (5%), of Base Bid, which shall be retained by the Owner as liquidated damages, if the undersigned fails to execute the contract within ten (10) days of award of the Contract.

ADDENDA

The undersigned acknowledges the receipt of the following addenda:

Addendum No.	Dated	Addendum No.	Dated
Addendum No.	Dated	Addendum No.	Dated
Addendum No.	Dated	Addendum No.	Dated

TIME OF COMPLETION

The undersigned agrees to substantially complete the Project by July 15, 2007.

WITHDRAWAL OF BIDS

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The undersigned agrees that his Bid shall not be withdrawn for a period of sixty (60) days after the date set for receipt of Bids.

NON-COLLUSION

The undersigned certifies that the bid has not been prepared in collusion with any other bidder and that the prices, discounts, terms and conditions thereof have not been directly or indirectly communicated by or on behalf of the Bidder to any such person other then the recipient of such bid, and will not be communicated to any such person prior to the official opening of said bid. The undersigned fully understands that no premiums, rebates, or gratuities are permitted either with, prior to or after signing the Contract.

This certification may be treated as if it were a sworn statement made under oath, and is made subject to the provisions of 18 U. S. C., 1001, relating to the making of false statements.

SIGNATURE AND LEGAL STATUS OF BIDDER

Signed and sealed this _____ day of _____, 20____.

(Individual, Partnership, Corporation)

State of Incorporation

Affix Corporate Seal

By:

(Authorized Signature of Bidder)

(Print or Type Name of Bidder)

Title

Business Address

Instructions: Submit three (3) copies to Owner and retain one (1) copy.

END OF BID FORM

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SECTION 00450 -

FAMILIAL DISCLOSURE STATEMENT

The undersigned, the owner or authorized officer of ______ (the "Bidder"), pursuant to the familial disclosure requirement provided in the ______ (the "School District") advertisement for construction bids, hereby represent and warrant, except as provided below, that no familial relationships exist between the owner(s) or any employee of ______ and any member of the Board of Education of the School District or the Superintendent of the School District.

BIDDER:

List any Familial Relationships:

		By:					_
		Its:					-
STATE OF MICHIGAN))ss.)						
This instrument was		re me on T	the o	day of	,	2007,	by
		My Commis	County, sion Expires: e County of	Michigan			
	E	ND OF SECTIO	N				

BID FORM 00450 - 1



JENNIFER M. GRANHOLM GOVERNOR STATE OF MICHIGAN DEPARTMENT OF LABOR & ECONOMIC GROWTH LANSING

ROBERT W. SWANSON DIRECTOR

REQUIREMENTS OF MICHIGAN PUBLIC ACT 166 OF 1965, PREVAILING WAGES ON STATE PROJECTS

The Michigan Department of Labor & Economic Growth determines prevailing rates pursuant to the Prevailing Wage Law, Act 166, P.A. of 1965. The purpose of establishing prevailing rates is to provide rates of pay for workers on construction projects for which the state or a school district is the contracting agent and which is financed or financially supported by the state. By law, prevailing rates are compiled from the rates contained in collectively bargained agreements which cover the locations of the state projects. The attached prevailing rates provide an hourly rate which INCLUDES wage and fringe benefit totals for designated construction mechanic classifications. The overtime rates also include wage and fringe benefit totals. Please pay special attention to the overtime and premium pay requirements. The prevailing rate may be satisfied by payment in cash or payment in cash and credit for fringe benefits paid in cash or on behalf of a worker or fringe benefits provided to a worker.

State of Michigan responsibilities under the law:

 The department establishes the prevailing rate for each classification of construction mechanic <u>requested by a</u> <u>contracting agent</u> prior to contracts being let out for bid on a state project.

Contracting agent responsibilities under the law:

- If a contract is not awarded or construction does not start within 90 days of the date of the issuance of rates, a redetermination of rates must be requested by the contracting agent.
- Rates for classifications needed but not provided on the Prevailing Rate Schedule, including rates for registered apprentices, <u>must</u> be obtained <u>prior</u> to contracts being let out for bid on a state project.
- The contracting agent, by written notice to the contractor and the sureties of the contractor known to the contracting agent, may terminate the contractor's right to proceed with that part of the contract, for which less than the prevailing rates of wages and fringe benefits have been or will be paid, and may proceed to complete the contract by separate agreement with another contractor or otherwise, and the original contractor and his sureties shall be liable to the contracting agent for any excess costs occasioned thereby.

Contractor responsibilities under the law:

- Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.
- Every contractor and subcontractor shall keep an accurate record showing the name and occupation of and the actual wages and benefits paid to each construction mechanic employed by him in connection with said contract. This record shall be available for reasonable inspection by the contracting agent or the department.
- Each contractor or subcontractor is separately liable for the payment of the prevailing rate to its employees.
- The prime contractor is responsible for advising all subcontractors of the requirement to pay the prevailing rate prior to commencement of work.
- The prime contractor is secondarily liable for payment of prevailing rates that are not paid by a subcontractor.
- A construction mechanic <u>shall only</u> be paid the apprentice rate if registered with the United States Department of Labor, Bureau of Apprenticeship and Training and the rate is included in the contract.

Enforcement:

A person who has information of an alleged prevailing wage violation on a state project may file a complaint with the Wage and Hour Division. The department will investigate and attempt to resolve the complaint informally.

Executive Order Number 2003-001 requires that contractors doing business with the State of Michigan be in compliance with state and federal law. A violation of Act 166 of 1965, as amended, the Prevailing Wages on State Projects act or Act 390 of 1978, as amended, the Payment of Wages and Fringe Benefits Act, may result in the <u>debarment</u> of a contractor from being awarded a contract for the provision of goods and services to the State of Michigan for a period of up to eight (8) years.

UNDERGROUND ENGINEERS

CLASS I

Backfiller Tamper, Backhoe, Batch Plant Operator, Clam-Shell, Concrete Paver (2 drums or larger), Conveyor Loader (Euclid type), Crane (crawler, truck type or pile driving), Dozer, Dragline, Elevating Grader, End Loader, Gradall (and similar type machine), Grader, Power Shovel, Roller (asphalt), Scraper (self propelled or tractor drawn), Side Broom Tractor (type D-4 or larger), Slope Paver, Trencher (over 8' digging capacity), Well Drilling Rig, Mechanic, Slip Form Paver.

CLASS II

Boom Truck (power swing type boom), Crusher, Hoist, Pump (1 or more 6" discharge or larger gas or diesel powered by generator of 300 amps or more, inclusive of generator), Side Boom Tractor (smaller than type D-4 or equivalent), Sweeper (Wayne type and similar equipment), Tractor (pneu-tired, other than backhoe or front end loader), Trencher (8' digging capacity and smaller).

CLASS III

Air Compressors (600 cfm or larger), Air Compressors (2 or more less than 600 cfm), Boom Truck (non-swinging, non-powered type boom), Concrete Breaker (self-propelled or truck mounted, includes compressor), Concrete Paver (1 drum, ½ yard or larger), Elevator (other than passenger), Maintenance Man, Mechanic Helper, Pump (2 or more 4" up to 6" discharge, gas or diesel powered, excluding submersible pump), Pumpcrete Machine (and similar equipment), Wagon Drill Machine, Welding Machine or Generator (2 or more 300 amp or larger, gas or diesel powered).

CLASS IV

Boiler, Concrete Saw (40HP or over), Curing Machine (self-propelled), Farm Tractor (w/attachment), Finishing Machine (concrete), Firemen, Hydraulic Pipe Pushing Machine, Mulching Equipment, Oiler (2 or more up to 4", exclude submersible), Pumps (2 or more up to 4" discharge if used 3 hrs or more a day-gas or diesel powered, excluding submersible pumps), Roller (other than asphalt), Stump Remover, Vibrating Compaction Equipment (6' wide or over), Trencher (service).

HAZARDOUS WASTE ABATEMENT ENGINEERS

CLASS I

Backhoe, Batch Plant Operator, Clamshell, Concrete Breaker when attached to hoe, Concrete Cleaning Decontamination Machine Operator, Concrete Pump, Concrete Paver, Crusher, Dozer, Elevating Grader, Endloader, Farm Tractor (90 h.p. and higher), Gradall, Grader, Heavy Equipment Robotics Operator, Loader, Pug Mill, Pumpcrete Machines, Pump Trucks, Roller, Scraper (selfpropelled or tractor drawn), Side Boom Tractor, Slip Form Paver, Slop Paver, Trencher, Ultra High Pressure Waterjet Cutting Tool System Operator, Vactors, Vacuum Blasting Machine Operator, Vertical Lifting Hoist, Vibrating Compaction Equipment (selfpropelled), and Well Drilling Rig.

CLASS II

Air Compressor, Concrete Breaker when not attached to hoe, Elevator, End Dumps, Equipment Decontamination Operator, Farm Tractor (less than 90 h.p.), Forklift, Generator, Heater, Mulcher, Pigs (Portable Reagent Storage Tanks), Power Screens, Pumps (water), Stationary Compressed Air Plant, Sweeper, and Welding Machine.

Regular Crane Operators rate shall include: Mechanics, Crane Operators, Dragline Operators, Boom Truck Operators, Power Shovel Operators and Concrete Pumps with booms.

Revised: 09/07/06



MICHIGAN DEPARTMENT OF LABOR & ECONOMIC GROWTH WAGE & HOUR DIVISION OVERTIME PROVISIONS for MICHIGAN PREVAILING WAGE RATE SCHEDULE

1. Overtime is represented as a nine character code. Each character represents a certain period of time after the first 8 hours Monday thru Friday.

	Monday thru Friday	Saturday	Sunday & Holidays
First 8 Hours		4	
9th Hour	1	5	8
10th Hour	2	6	
Over 10 hours	3	7	

Overtime for Monday thru Friday after 8 hours:

the 1st character is for time worked in the 9th hour (8.1 - 9 hours) the 2nd character is for time worked in the 10th hour (9.1 - 10 hours) the 3rd character is for time worked beyond the 10th hour (10.1 and beyond)

Overtime on Saturday:

the 4th character is for time worked in the first 8 hours on Saturday (0 - 8 hours) the 5th character is for time worked in the 9th hour on Saturday (8.1 - 9 hours) the 6th character is for time worked in the 10th hour (9.1 - 10 hours) the 7th character is for time worked beyond the 10th hour (10.01 and beyond)

Overtime on Sundays & Holidays

The 8th character is for time worked on Sunday or on a holiday

The last character indicates if an optional 4-day 10-hour per day workweek can be worked without paying overtime after 8 hours worked.

- 2. Overtime Indicators Used in the Overtime Provision:
 - H means TIME AND ONE-HALF due
 - X means TIME AND ONE-HALF due after 40 HOURS worked
 - D means DOUBLE PAY due
 - Y means YES an optional 4-day 10-hour per day workweek can be worked without paying overtime after 8 hours worked
 - N means NO an optional 4-day 10-hour per day workweek *can not* be worked without paying overtime after 8 hours worked

3. EXAMPLES:

HHHHHHDN - This example shows that the $1\frac{1}{2}$ rate must be used for time worked after 8 hours Monday thru Friday (*characters 1 - 3*); for all hours worked on Saturday, $1\frac{1}{2}$ rate is due (*characters 4 - 7*). Work done on Sundays or holidays must be paid double time (*character 8*). The N (*character 9*) indicates that 4 ten-hour days is not an acceptable workweek at regular pay.

XXXHHHHDY - This example shows that the $1\frac{1}{2}$ rate must be used for time worked after 40 hours are worked Monday thru Friday *(characters 1-3);* for hours worked on Saturday, $1\frac{1}{2}$ rate is due *(characters 4 - 7).* Work done on Sundays or holidays must be paid double time *(character 8).* The Y *(character 9)* indicates that 4 tenhour days is an acceptable alternative workweek. (REV 05/07/04)

State of Michigan Department of Labor and Economic Growth

Official Request 566 Requestor: TROY SCHOOL DISTRICT

Project Description: INSTALLATION OF UNDERGROUND CONDUIT Project Number: NEW BAKER MIDDLE SCHOOL

Oakland County Official 2007 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/27/2007 Contract must be awarded by

	Page 1 of 20	.,,		
<u>Classification</u> Name Description		Straight Hourly	Time and a Half	Double Time Overtime Provision
Asbestos & Lead Abatement Laborer				
Asbestos & Lead Abatement Laborer	MLDC	\$31.30	\$41.83	\$52.35 H H H X X X X D Y
Asbestos & Lead Abatement, Hazardous Material Hand	dler			
Asbestos and Lead Abatement, Hazardous Material Handle	er AS207	\$31.30	\$43.13	\$54.95 X X X X X X X D Y
Boilermaker				
Boilermaker	BO169	\$48.71	\$68.13	\$87.54 H H D H D D D D Y
Apprentice R	lates:			
1st 6 months		\$37.07	\$50.67	\$64.26
2nd 6 months		\$38.03	\$52.10	\$66.18
3rd 6 months		\$39.00	\$53.56	\$68.12
4th 6 months		\$39.97	\$55.02	\$70.06
5th 6 months		\$40.58	\$56.11	\$71.64
6th 6 months		\$42.88	\$59.38	\$75.88
7th 6 months		\$44.83	\$62.31	\$79.78
8th 6 months		\$46.77	\$65.21	\$83.66
Bricklayer				
Bricklayer, stone mason, pointer, cleaner, caulker	BR1	\$47.76	\$71.64	\$95.52 H H D H D D D D N
Apprentice R	lates:			
First 6 months	3	\$30.33	\$45.50	\$60.66
2nd 6 months		\$32.21	\$48.32	\$64.42
3rd 6 months		\$34.10	\$51.15	\$68.20
4th 6 months		\$35.98	\$53.97	\$71.96
5th 6 months		\$37.86	\$56.79	\$75.72
6th 6 months		\$39.73	\$59.60	\$79.46

Official Request #: 566 Requestor: TROY SCHOOL DISTRICT Project Description: INSTALLATION OF UNDERGROUND CONDUIT Project Number: NEW BAKER MIDDLE SCHOOL

County: Oakland

Official Rate Schedule

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.

6546 Mercantile Way, Suite 5 PO Box 30476 Lansing, MI 48909-7976 Telephone: 517-335-0400 Fax: 517-335-0077 www.michigan.gov/wagehour

Issue Date: 4/27/2007

Contract must be awarded by

7/26/2007

Page 2 of 20

		Page 2 of 20			
<u>Classification</u> Name Description			Straight Hourly	Time and a Half	Double Time Overtime Provision
			========	a i iaii =======	
arpenter					
arpet and Resilient Floor		CA1045	\$40.22	\$56.42	\$72.61 H H H H D D D D
	d formica & parquet flooring				
hich is to be paid carpent	ter rate)				
	Apprentice Ra	tes:			
	1st 6 months		\$20.93	\$25.25	\$31.05
	2nd 6 months		\$24.02	\$31.26	\$39.07
	3rd 6 months		\$25.64	\$33.59	\$42.17
	4th 6 months		\$27.26	\$35.95	\$45.33
	5th 6 months		\$28.87	\$38.28	\$48.43
	6th 6 months		\$30.50	\$40.64	\$51.57
	7th 6 months		\$32.11	\$42.96	\$54.67
	8th 6 months		\$33.73	\$45.30	\$57.79
arpenter, piledriver		CA687Z1	\$44.37	\$62.97	\$81.56 H H D H D D D D
	Apprentice Ra	tes:			
	1st Year		\$27.63	\$37.85	\$48.08
	3rd 6 months		\$29.49	\$40.65	\$51.80
	4th 6 months		\$31.34	\$43.42	\$55.50
	5th 6 months		\$33.21	\$46.23	\$59.24
	6th 6 months		\$35.08	\$49.03	\$62.98
	7th 6 months		\$36.92	\$51.79	\$66.66
	8th 6 months		\$38.80	\$54.61	\$70.42
Cement Mason					
Cement Mason		CE514	\$42.63	\$60.13	\$77.63 H H D H H H H D
	Apprentice Ra	tes:			
	1st 6 months		\$24.90	\$33.67	\$42.43
	2nd 6 months		\$26.65	\$36.28	\$45.92
	3rd 6 months		\$30.15	\$41.55	\$52.93
	4th 6 months		\$33.66	\$46.80	\$59.94
	5th 6 months		\$35.40	\$49.43	\$63.44
	6th 6 months		\$38.92	\$54.70	\$70.47
rywall					
rywall Taper		PT-22-D	\$38.45	\$50.90	\$63.35 H H D H D D D D
	Apprentice Ra	tes:			
	First 3 months		\$26.00	\$32.23	\$38.45
	Second 3 mont		\$28.49	\$35.96	\$43.43
	Second 6 mont		\$30.98	\$39.69	\$48.41
	Third 6 months		\$33.47	\$43.43	\$53.39
	4th 6 months		\$34.71	\$45.29	\$55.87
				o <i>m</i> :	
Official Request #: 566				Offici	al Rate Schedule
Requestor: TRC	Y SCHOOL DISTRICT				

Project Description: INSTALLATION OF UNDERGROUND CONDUIT

Project Number: NEW BAKER MIDDLE SCHOOL County: Oakland

Issue Date: 4/27/2007 Contract must be awarded by

7/26/2007

Electrician EC-38-IW \$46.88 \$64.00 \$81.13 H H H H H H H H Inside Wireman Apprentice Rates: 0.1000 hours \$28.04 \$35.75 \$43.45 2000-3500 hours \$28.04 \$35.75 \$43.45 \$200-3500 hours \$28.113 \$46.87 3000-2000 hours \$29.75 \$38.31 \$46.87 \$35.75 \$43.45 2000-3500 hours \$31.47 \$40.30 \$50.31 \$50.46 500-6500 hours \$33.8.2 \$51.17 \$64.01 \$50.46 Sound and Communication Installer/Technician EC-38-8C \$29.33 \$41.30 \$53.26 H H H H H H H Apprentice Rates: Period 1 \$17.16 \$28.04 \$28.93 Period 2 \$18.38 \$24.88 \$33.79 \$41.00 \$56.69 \$33.79 Period 3 \$19.59 \$26.69 \$33.79 \$41.65 \$10 D D D D D \$20.81 \$28.83 \$38.65 Period 4 \$20.81 \$28.68 \$38.25 \$67.75 Year Apprentice \$31.14 \$49.70		Page 3 o	f 20				
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Official Request #: 566 Official Rate Schedu	Official Request #: 566			Offici	al Rate	Schedule	
Official Request #: 566 Official Requestor: TROY SCHOOL DISTRICT						Soncaric	

Project Description: INSTALLATION OF UNDERGROUND CONDUIT

Project Number: NEW BAKER MIDDLE SCHOOL County: Statewide

Issue Date: 4/27/2007

Contract must be awarded by

7/26/2007

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	Page 4 of 20)		
Classification Name Description		Straight Hourly	Time and a Half	Double Time Overtime Provision
		======================================	a i iali ========	
Heat and Frost Insulator and Asbestos Wo	rker			
Heat and Frost Insulators and Asbestos Worke	ers AS25	\$48.20	\$62.86	\$77.52 Н Н Н Н Н Н Н D Y
Α	pprentice Rates:			
	st Year	\$29.59	\$37.66	\$45.72
	nd Year	\$37.60	\$47.13	\$56.66
	rd Year	\$39.40	\$49.66	\$59.92
4	th Year	\$42.34	\$54.07	\$65.80
Ironworker				
Fence Erecting	IR-25-F	\$39.87	\$59.58	\$79.29 Н Н D Н Н Н D D Y
Glazing	IR-25-GZ1	\$48.48	\$72.64	\$96.65 ННДНННДДҮ
Mesh Iron Work	IR-25-MR	\$42.25	\$60.43	\$78.60 H H D H D D D D N
Pre-engineered Metal Work	IR-25-PE-Z1-Z2	\$39.88	\$50.38	\$60.88 H H H X X X X D Y
Α	pprentice Rates:			
1	st level	\$22.79	\$27.88	\$32.97
2	nd level	\$24.01	\$29.61	\$35.21
3	rd level	\$25.25	\$31.36	\$37.47
4	th level	\$26.47	\$33.08	\$39.70
-	th level	\$27.70	\$34.83	\$41.95
6	th level	\$28.93	\$36.56	\$44.20
Reinforced Iron Work	IR-25-RF	\$47.46	\$68.09	\$88.71 H H D H D D D D N
Rigging Work	IR-25-RIG	\$52.48	\$78.56	\$104.64 H H H H H H H D N
Siding & Decking	IR-25-SD	\$45.10	\$67.43	\$89.75 ННДНННДДҮ
Structural, ornamental, conveyor, welder and Apprentice rates apply to structural, converyo glazing, reinforced, rigging, & siding decking		\$52.61	\$78.69	\$104.77 H H D H H H D D Y
Α	pprentice Rates:			
	evel 1	\$26.51	\$39.54	\$52.57
	evel 2	\$29.12	\$43.46	\$57.79
	evel 3	\$31.73	\$47.37	\$63.01
L	evel 4	\$34.34	\$51.29	\$68.23
L	evel 5	\$36.94	\$55.19	\$73.43
L	evel 6	\$39.57	\$59.13	\$78.69
	evel 7	\$42.16	\$63.02	\$83.87
L	evel 8	\$44.78	\$66.95	\$89.11
Official Request #: 566			Offici	al Rate Schedule
Requestor: TROY SCHOOL DISTR	RCT			
Project Description: INSTALLATION OF UN		Every contract	tor and sub	contractor shall keep posted
				in a conspicuous place, a

Project Number: NEW BAKER MIDDLE SCHOOL County: Oakland

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Issue Date: 4/27/2007

Contract must be awarded by

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<u>Classification</u> Name Description	-	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Industrial Door erection & construction	IR-25-STR-D	\$34.69	\$46.09	\$57.48	ННДНННДДҮ
Laborer					
Construction Laborer, Mason Tender, Carpenter Tender Drywall Handler, Cement Finisher tender, concrete chut and concrete Bucket Handler, Concrete Laborer, Demol Laborer	te	\$36.48	\$51.89	\$67.29	H H D H D D D D Y
Apprentice	e Rates:				
0-1,000 wo	rk hours	\$30.91	\$43.53	\$56.15	
1,001-2,00	0 work hours	\$32.02	\$45.20	\$58.37	
2,001-3,00	0 work hours	\$33.14	\$46.88	\$60.61	
3,001-4,00	0 work hours	\$35.37	\$50.23	\$65.07	
Signal man (on sewer & caisson work); air,electric or gasoline tool operator (including concrete vibrator operator,acetylene torch & air hammer operator); scaff builder, caisson worker	L1076-A-B old	\$36.74	\$52.28	\$67.81	ННОНОООУ
Lansing Burner, Blaster & Powder Man	L1076-A-C	\$37.23	\$53.01	\$68.79	ННДНДДДУ
Furnance battery heater tender, burning bar & oxy- acetylene gun, expediter man, top man and/or bottom (blast furnace work)	L1076-A-D man	\$36.98	\$52.64	\$68.29	ННОНОООУ
Cleaner/ sweeper laborer, furniture laborer	L1076-A-E	\$31.03	\$43.71	\$56.39	ННОНОООУ
Plasterer Tender, Plastering Machine Operator Apprentice	LPT-1	\$37.86	\$53.96	\$70.05	ННДНДДДЛ
0 - 1,000 h 1,001 - 2,0 2,001 - 3,0 3,001 - 4,0	ours 00 hours 00 hours	\$30.91 \$32.02 \$33.14 \$35.37	\$43.53 \$45.20 \$46.88 \$50.23	\$56.15 \$58.37 \$60.61 \$65.07	

Official Request #: 566 Requestor: TROY SCHOOL DISTRICT Project Description: INSTALLATION OF UNDERGROUND CONDUIT Project Number: NEW BAKER MIDDLE SCHOOL County: Oakland

Official Rate Schedule

Issue Date: 4/27/2007 Contract must be awarded by

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<u>Classification</u>			Straight	Time and	Double	
Name Description			Hourly	a Half	Time	Overtime Provision
				=========		
Laborer - Hazardous						
Class A Laborer - performing work in con		LHAZ-Z2-A	\$36.48	\$51.89	\$67.29	ННННННРҮ
preparation and other preliminary work p						
removal, handling, or containment of haz						
substances not requiring use of personal						
equipment required by state or federal re laborer performing work in conjunction w						
handling, or containment of hazardous w						
when used of personal protective equipm						
required.						
	Apprentice Ra	tes:				
	0-1,000 work ho		\$30.91	\$43.53	\$56.15	
	1,001-2,000 wo		\$32.02	\$45.20	\$58.37	
	2,001-3,000 wo		\$33.14	\$46.88	\$60.61	
	3,001-4,000 wo	ork hours	\$35.37	\$50.23	\$65.07	
Class B Laborer - performing work in con		LHAZ-Z2-B	\$37.48	\$53.39	\$69.29	нннннрү
removal, handling, or containment of haz						
substances when the use of personal pro	tective equipment					
levels "A", "B" or "C" is required.						
	Apprentice Ra	tes:				
	0-1,000 work ho		\$31.66	\$44.66	\$57.65	
	1,001-2,000 wo		\$32.82	\$46.40	\$59.97	
	2,001-3,000 wo		\$33.99	\$48.15	\$62.31	
	3,001-4,000 wo	ork hours	\$36.32	\$51.65	\$66.97	
Labora Understand Torrad Ober	0					
Laborer Underground - Tunnel, Shaft			***	\$ 10 01	* 50.00	
Class I - Tunnel, shaft and caisson labore		LAUCT-Z1-1	\$32.54	\$43.21	\$53.88	нннннрү
shanty man, hog house tender, testing m watchman.	ian (on gas), anu					
waterinan.	Anneantico Do	too.				
	Apprentice Ra		407 70		\$44.00	
	0-1,000 work ho		\$27.70	\$35.95 \$37.40	\$44.20	
	1,001-2,000 wo 2,001-3,000 wo		\$28.67 \$29.64	\$37.40 \$38.86	\$46.14 \$48.08	
	3,001-4,000 wo		\$31.57	\$41.76	\$51.94	
	0,001 1,000 10		Q 01.07	φ11.7 0	φο ττο τ	
Class II - Manhole, headwall, catch basin	builder bricklaver	LAUCT-Z1-2	\$32.65	\$43.38	\$54 10	нннннрү
tender, mortar man, material mixer, fen			402 .00	10.00	φοτο	
guard rail builder.	···· , · ·					
-	Apprentice Ra	tes:				
	0-1,000 work ho	ours	\$27.79	\$36.08	\$44.38	
	1,001-2,000 wo		\$28.76	\$37.54	\$46.32	
	2,001-3,000 wo		\$29.73	\$39.00	\$48.26	
	3,001-4,000 wo	ork hours	\$31.68	\$41.92	\$52.16	
				000		
Official Request #: 566				UTTICI	al Rat	e Schedule
Requestor: TROY SCHOOL D			- .			
Project Description: INSTALLATION O		D CONDUIT				or shall keep posted
Project Number: NEW BAKER MID	DLE SCHOOL					picuous place, a nge benefit rates

Project Number: NEW BAKER MIDDLE SCHOOL County: Oakland

prescribed in a contract.

Issue Date: 4/27/2007

Contract must be awarded by

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Clas	ssification		Page 7 of 20	Straight	Time and	Double	
Name	Description			Hourly	a Half	Time	Overtime Provision
Class III hammer bottom n man, coo invert lab man, floc lock tend tender, s man, tug pipe jacl	- Air tool operator (jack hammer m man and grinding man), first botto nan, cage tender, car pusher, carrie ncrete form man, concrete repair n porer, cement finisher, concrete sho or man, gasoline and electric tool op out operator, welder, heading dinky ler, pea gravel operator, pump mar caffold man, top signal man, switch ger man, utility man, vibrator man, king man, wagon drill and air track saw operator (under 40 h.p.).	m man, second er man, concrete han, cement oveler, conveyor perator, gunnite man, inside h, outside lock h man, track winch operator,	LAUCT-Z1-3	\$32.71	\$43.47		Н Н Н Н Н Н Н О Ү
		Apprentice Rate	es:				
		0-1,000 work ho		\$27.83	\$36.14	\$44.46	
		1,001-2,000 wor		\$28.81	\$37.62	\$46.42	
		2,001-3,000 wor		\$29.78	\$39.07	\$48.36	
		3,001-4,000 wor	k hours	\$31.73	\$42.00	\$52.26	
	- Tunnel, shaft and caisson mucker e man, long haul dinky driver and v		LAUCT-Z1-4	\$32.89	\$43.74	\$54.58	ннннннрү
		Apprentice Rate	es:				
		0-1,000 work ho	urs	\$27.97	\$36.36	\$44.74	
		1,001-2,000 wor	k hours	\$28.95	\$37.82	\$46.70	
		2,001-3,000 wor	k hours	\$29.94	\$39.31	\$48.68	
		3,001-4,000 wor	k hours	\$31.91	\$42.26	\$52.62	
keyboard	Tunnel, shaft and caisson miner, d l operator, power knife operator, re man (e.g. wire mesh, steel mats, d	inforced steel	LAUCT-Z1-5	\$33.14	\$44.11	\$55.08	ннннннрү
		Apprentice Rate	es:				
		0-1,000 work ho	urs	\$28.16	\$36.64	\$45.12	
		1,001-2,000 wor	k hours	\$29.15	\$38.12	\$47.10	
		2,001-3,000 wor		\$30.15	\$39.62	\$49.10	
		3,001-4,000 wor	k hours	\$32.14	\$42.61	\$53.08	
Class VI	- Dynamite man and powder man.		LAUCT-Z1-6	\$33.47	\$44.61	\$55.74	ннннннрү
		Apprentice Rate	es:				
		0-1,000 work ho	urs	\$28.40	\$37.00	\$45.60	
		1,001-2,000 wor	k hours	\$29.42	\$38.53	\$47.64	
		2,001-3,000 wor	k hours	\$30.43	\$40.04	\$49.66	
		_,		+	+ · • · • ·	φ.υ.υυ	

Official Request #: 566 Requestor: TROY SCHOOL DISTRICT Project Description: INSTALLATION OF UNDERGROUND CONDUIT Project Number: NEW BAKER MIDDLE SCHOOL

County: Oakland

Official Rate Schedule

Issue Date: 4/27/2007

Contract must be awarded by

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<u>Classification</u> Name Description			Straight Hourly	Time and a Half	Double Time	Overtime Provision
				a i iaii ========	=======	
Class VII - Restoration laborer, cutting, mulching and topsoil g property such as replacing mai poxes and flagstones.	rading and the restoration	of	\$26.75	\$34.53	\$42.30	ннннно
	Apprentice I	Rates:				
	0-1,000 work	hours	\$23.36	\$29.44	\$35.52	
	1,001-2,000	work hours	\$24.04	\$30.46	\$36.88	
	2,001-3,000	work hours	\$24.72	\$31.48	\$38.24	
	3,001-4,000	work hours	\$26.07	\$33.50	\$40.94	
andscape Laborer						
Landscape specialist includes; equipment operator, lawn sprir		LLAN-Z1-A	\$23.38	\$32.46	\$41.54	ххнхххно
Landscape laborer; small powe sprinkler installer helper, mate	• •	LLAN-Z1-B	\$19.16	\$26.13	\$33.10	ххнхххно
Marble Finisher						
Marble Finisher		TT32-MF	\$38.37	\$48.46	\$58.54	ннонооог
	Apprentice I	Rates:		·		
	Level 1		\$18.73	\$24.22	\$29.71	
	Level 2		\$19.79	\$25.81	\$31.83	
	Level 3		\$23.93	\$30.38	\$36.83	
	Level 4		\$25.23	\$32.33	\$39.43	
	Level 5		\$26.56	\$33.85	\$41.14	
	Level 6		\$27.99	\$35.64	\$43.28	
	Level 7		\$29.48	\$37.17	\$44.85	
	Level 8		\$30.80	\$38.73	\$46.65	
Marble Mason						
Marble Mason		TT32-MM	\$44.26	\$57.29	\$70.32	ннонооог
	Apprentice I	Rates:				
	Level 1		\$24.21	\$31.14	\$38.06	
	Level 2		\$26.93	\$34.56	\$42.20	
	Level 3		\$29.70	\$37.59	\$45.48	
	Level 4		\$32.10	\$40.83	\$49.56	
	Level 5		\$34.18	\$43.17	\$52.16	
	Level 6		\$37.52	\$48.11	\$58.71	
	Level 7		\$38.55	\$49.53	\$60.51	
	Level 8		\$39.18	\$50.47	\$61.77	
Operating Engineer						
Crane with boom & jib or leads	s 120' or longer	EN-324-A120	\$47.81	\$64.26	\$80.70 l	HHDHDDD

Official Request #:	566
Requestor:	TROY SCHOOL DISTRICT
Project Description:	INSTALLATION OF UNDERGROUND CONDUIT
Project Number:	NEW BAKER MIDDLE SCHOOL Oakland

Official Rate Schedule

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Crane with boom & jib or leads 220' or longer EN-324-A220 \$48.93 \$65.94 \$82.94 H H D H D D D V Crane with boom & jib or leads 300' or longer EN-324-A200 \$50.43 \$68.19 \$85.94 H H D H D D D V Crane with boom & jib or leads 400' or longer EN-324-A400 \$51.93 \$70.44 \$88.94 H H D H D D D V Crane with boom & jib or leads 400' or longer EN-324-A400 \$51.93 \$70.44 \$88.94 H H D H D D D V Compressor or welding machine EN-324-CW \$36.96 \$47.98 \$59.00 H H D H D D D V Forklift, lull, extend-a-boom forklift EN-324-FL \$44.27 \$58.95 \$73.82 H H D H D D D V Fireman or oiler EN-324-FC \$46.95 \$62.97 \$78.98 H H D H D D D V V Regular crane, job mechanic, concrete pump EN-324-RE \$45.98 \$61.51 \$77.04 H H D H D D D V V Regular engineer, hydro-excavator, remote controlled EN-324-RE \$45.98 \$61.51 \$77.04 H H D H D D D V V Concrete breaker Period 1 \$36.47 \$47.97 \$56.22 \$47.52 \$67.52 \$57.50 \$70.54 \$81.32 \$56.66 \$22.55 \$57.52 \$57.54 \$		Page 9 of 20			
Crane with boom & jib or leads 220' or longer EN-324-A200 \$48.93 \$65.94 \$82.94 H H D H D D D D V Crane with boom & jib or leads 300' or longer EN-324-A300 \$50.43 \$68.19 \$85.94 H H D H D D D D V Crane with boom & jib or leads 400' or longer EN-324-A300 \$51.93 \$70.44 \$88.94 H H D H D D D D V Crane with boom & jib or leads 400' or longer EN-324-A300 \$51.93 \$70.44 \$88.94 H H D H D D D D V Compressor or welding machine EN-324-CW \$36.96 \$47.98 \$59.00 H H D H D D D D V Compressor or welding machine EN-324-FL \$44.27 \$58.95 \$73.62 H H D H D D D D V Fireman or oiler EN-324-FC \$35.93 \$46.44 \$56.94 H H D H D D D D V Regular crane, job mechanic, concrete pump EN-324-FC \$46.95 \$62.97 \$78.98 H H D H D D D D V Regular crane, job mechanic, concrete pump EN-324-FC \$45.98 \$51.51 \$77.04 H H D H D D D D V Regular crane, job mechanic, concrete pump EN-324-FC \$45.98 \$61.51 \$77.04 H H D H D D D D V Regular crane, job mechanic, concrete pump EN-324-FC \$45.98 \$61.51 \$77.04 H H D H D D D D V Period 2 \$38.02 \$40.67 \$78.98 H H D H D D D D V Period 3 \$39.57 \$52.00 \$64.42 Period 3 \$39.57 \$52.00 \$64.42 Period 5 \$42.28 \$56.66 \$70.64 Period 5 \$42.28 \$56.66 \$70.64 Period 5 \$42.28 \$56.86 \$70.74 H D H D V V Holidays paid at 95.64 per hour \$22.00 \$64.42 \$58.99 \$77.19 X X H H H H H D V Holidays paid at 95.64 per hour \$22.00 \$64.74 \$80.19 X X H H H H H D V Holidays paid at 95.64 per hour \$22.00 \$64.75 \$77.19 X X H H H H H D V Subdivision of county All Great Lakes, Islands therein, & connecting & tributary waters Crane/Backhee Operator, Mechanic/Welder, Assistant GLP-2 \$47.79 \$52.49 \$77.19 X X H H H H H D V Crane (wyr 50 ton capacity) or Bachhee (15,000 Ibs. or mone, Turger (Myriaulic dredge), Devertor Mechanic/Welder, Dezer tor Lose, Dezer tor Mechanic Mechanic, Decer Soc. Decertor, Mechanic/Welder, Dezer tor Lose, Soc. Decertor, Mechanic/Welder, Dezer tor Lose, Dezer tor Mechanic Mechanice, Dezer tor Mechanice, Dezer tor Mechanice, Dezer tor Mechanice, Mechanice, Mechanice, Mechanice, Mechanice, Mechanice, Mechanice, Mechanice,			•		
Crane with boom 8 jib or leads 300' or longer EN-324-A300 \$50.43 \$68.19 \$85.94 H H D H D D D D V Crane with boom 8 jib or leads 400' or longer EN-324-A400 \$51.93 \$70.44 \$88.94 H H D H D D D D V Compressor or welding machine EN-324-CW \$36.96 \$47.98 \$59.00 H H D H D D D D V Forklift, lull, extend-a-boom forklift EN-324-FL \$44.27 \$58.95 \$73.62 H H D H D D D V 0 D V Fireman or oller EN-324-FL \$44.27 \$58.95 \$73.62 H H D H D D D V 0 D V Regular crane, job mechanic, concrete pump EN-324-FC \$46.95 \$62.97 \$78.98 H H D H D D D V 0 D V Regular crane, job mechanic, concrete pump EN-324-FC \$46.95 \$62.97 \$77.98 H H D H D D D V 0 D V Regular engineer, hydro-excavator, remote controlled EN-324-FE \$45.98 \$61.51 \$77.04 H H D H D D D D V 0 D V Correcte breaker Period 1 \$38.67 \$47.34 \$58.22 \$46.26 \$70.64 Period 2 \$38.07 \$44.23 \$58.99 \$73.74 H H H H H D V Y Drey/Wet Tender, Engineer (Matriaulic dredge)	Crane with boom & jib or leads 140' or longer	EN-324-A140	\$48.63	\$65.49	\$82.34 H H D H D D D D Y
Crane with boom 8 jib or leads 400 'or longer EN-324-A400 S51.93 S70.44 S88.94 H H D H D D D D V Compressor or welding machine EN-324-FU S56.96 S47.98 S90.00 H H D H D D D D V FORMIT, lull, extend-a-boom forklift EN-324-FL S44.27 S56.96 S73.62 H H D H D D D D V FORMIT, lull, extend-a-boom forklift EN-324-FL S44.27 S56.95 S73.62 H H D H D D D D V FORMIT, lull, extend-a-boom forklift EN-324-FC S46.95 S62.97 S78.98 H H D H D D D D V FORMIT, lull, extend-a-boom forklift EN-324-FC S46.95 S62.97 S78.98 H H D H D D D D V V Regular engineer, hydro-excavator, remote controlled EN-324-FE S45.98 S61.51 S77.04 H H D H D D D D V O V Regular engineer, hydro-excavator, remote controlled EN-324-FE S45.98 S61.51 S77.04 H H D H D D D D V O V S64.42 S56.98 S61.20 S75.29 S76.98 H H D H D D D D V O V S77.94 S58.22 S57.52 S52.00 S64.42 S58.99 S73.74 S58.22 S57.52 S52.00 S64.42 S58.99 S73.74 S58.22 S57.52 S52.00 S64.42 S58.99 S73.74 S58.22 S57.52 S56.64 S77.64 S57.52 Period 5 S42.42 S58.99 S73.74 S58.22 S57.52 S56.64 S77.64 S57.52 Period 5 S44.23 S58.99 S73.74 S62.49 S77.19 X X H H H H H D Y ENdWards and a styp. S64.74 S80.19 X X H H H H H D Y Endwards and therein, & connecting & tributary waters Crane/Bachhoe Operator, Machanic/Welder, Assistant GLF-2 S47.79 S62.49 S77.19 X X H H H H H D Y Crane/Grane (hydraulic dredge), Dever Tender Holdward and like equipment Operator, Machanic/Welder, Assistant GLF-3 S44.59 S57.69 S70.79 X X H H H H H D Y Crane/Grane/Grane (hydraulic dredge), Cever and like equipment on Barge, Brackwater Wall, S10/Doc or Scow, Deck Hability Operator, Machanic/Welder, Caster and like equipment on Barge, Brackwater Wall, S10/Doc or Scow, Deck Hability Velder S58 Period S44.59 S57.69 S70.79 X X H H H H H D Y Crane/Crane/Grane/Grane/Machanic/Welder, S000 and like equipment on Barge, Brackwater Wall, S10/Doc or Scow, Deck Hability Operator, Machanic/Welder, S000 and like equipment on Barge, Brackwater Wall, S10/Doc or Scow, Deck Hability Operator, Machanic/Welder, S000 and like equipment on Barge, Brackwater Wall, S10	Crane with boom & jib or leads 220' or longer	EN-324-A220	\$48.93	\$65.94	\$82.94 H H D H D D D D Y
Compressor or welding machine EN-324-CW \$36.96 \$47.98 \$59.00 H H D H D D D V Forklift, lull, extend-a-boom forklift EN-324-FL \$44.27 \$58.95 \$73.62 H H D H D D D V Fireman or oiler EN-324-FL \$44.27 \$58.95 \$73.62 H H D H D D D V Regular crane, job mechanic, concrete pump EN-324-RC \$46.95 \$62.97 \$78.98 H H D H D D V 0 D V Regular crane, job mechanic, concrete pump EN-324-RC \$46.95 \$62.97 \$78.98 H H D H D V D V 0 D V Regular crane, job mechanic, concrete pump EN-324-RE \$45.98 \$61.51 \$77.04 H H D H D V D V V Regular crane, hydro-excavator, remote controlled EN-324-RE \$36.77 \$47.34 \$58.22 Period 1 \$36.67 \$47.34 \$58.22 \$46.42 \$56.66 \$70.64 Period 2 \$38.02 \$44.43 \$57.50 \$77.19 X H H H H D Y Holidays paid at \$95.54 per hour \$226.86 \$66.61 \$70.64 Y Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters \$62.49 \$77.19 X X H H H H H D Y Holidays paid at \$91.59 per hour \$226	Crane with boom & jib or leads 300' or longer	EN-324-A300	\$50.43	\$68.19	\$85.94 H H D H D D D D Y
Forklift, lull, extend-a-boom forklift EN-324-FL \$44.27 \$58.95 \$73.62 H H D H D D D D V Fireman or oiler EN-324-FC \$35.93 \$46.44 \$56.94 H H D H D D D D V Regular crane, job mechanic, concrete pump EN-324-FC \$46.95 \$62.97 \$73.88 H H D H D D D D V Regular engineer, hydro-excavator, remote controlled EN-324-RE \$46.98 \$61.51 \$77.04 H H D H D D D D V Regular engineer, hydro-excavator, remote controlled EN-324-RE \$45.98 \$61.51 \$77.04 H H D H D D D D V Regular engineer, hydro-excavator, remote controlled EN-324-RE \$45.98 \$61.51 \$77.04 H H D H D D D D V Regular engineer, hydro-excavator, remote controlled EN-324-RE \$45.98 \$61.51 \$77.04 H H D H D D D D V Period 1 \$30.57 \$47.34 \$58.20 \$44.20 \$58.32 \$61.32 Period 3 \$30.57 \$52.00 \$64.42 \$56.36 \$64.74 \$80.19 X X H H H H D Y Dyerating Engineer - Marine Construction Diver Tender \$44.23 \$58.99 \$77.19 X X H H H H D Y New Tender all Great Lakes, islands therein, & connecting & tributary waters \$47.79 \$62.49 \$	Crane with boom & jib or leads 400' or longer	EN-324-A400	\$51.93	\$70.44	\$88.94 H H D H D D D D Y
Fireman or oiler EN-324-FO \$35.93 \$46.44 \$56.94 H H D H D D D D V Regular crane, job mechanic, concrete pump EN-324-RC \$46.95 \$62.97 \$78.98 H H D H D D D D V Regular engineer, hydro-excavator, remote controlled EN-324-RE \$45.98 \$61.51 \$77.04 H H D H D D D D V Regular engineer, hydro-excavator, remote controlled EN-324-RE \$45.98 \$61.51 \$77.04 H H D H D D D D V Regular engineer, hydro-excavator, remote controlled EN-324-RE \$45.98 \$61.51 \$77.04 H H D H D D D D V Period 1 \$36.47 \$47.34 \$58.22 \$51.32 \$51.32 \$55.64 \$64.74 \$64.23 \$64.24 \$64.25 \$66.370.64 \$70.64 \$70.74 \$70.74 \$70.74 \$70.74 \$70.74 <td>Compressor or welding machine</td> <td>EN-324-CW</td> <td>\$36.96</td> <td>\$47.98</td> <td>\$59.00 H H D H D D D D Y</td>	Compressor or welding machine	EN-324-CW	\$36.96	\$47.98	\$59.00 H H D H D D D D Y
Regular crane, job mechanic, concrete pump EN-324-RC \$46.95 \$62.97 \$78.98 H H D H D D D D D V Regular engineer, hydro-excavator, remote controlled EN-324-RE \$45.98 \$61.51 \$77.04 H H D H D D D D D V Concrete breaker Apprentice Rates: Period 1 \$36.47 \$58.22 \$47.34 \$58.22 Period 2 \$38.02 \$49.67 \$50.08 \$64.42 \$64.74 \$58.22 \$67.52 Period 4 \$41.12 \$54.32 \$56.50 \$64.42 \$56.66 \$70.64 Period 6 \$44.23 \$58.99 \$73.74 \$70.97 \$2.20 \$87.52 Period 6 \$44.23 \$58.99 \$70.74 \$80.19 \$X X H H H H D Y Holidays paid at \$95.64 per hour \$ubdivision of county all Great Lakes, islands therein, & connecting & tributary waters \$62.49 \$77.19 \$X X H H H H D Y Holidays paid \$91.89 per hour \$ubdivision of county All Great Lakes, islands therein, & connecting & tributary waters \$7.69 \$70.79 \$X H H H H D Y Period 1 \$ubdivision of county All Great Lakes, islands therein, & connecting & tributary waters \$7.69 \$7.19	Forklift, lull, extend-a-boom forklift	EN-324-FL	\$44.27	\$58.95	\$73.62 H H D H D D D D Y
Regular engineer, hydro-excavator, remote controlled EN-324-RE \$45.98 \$61.51 \$77.04 H H D H D D D D V concrete breaker Apprentice Rates: Period 1 \$36.47 \$47.34 \$58.22 Period 2 \$38.02 \$49.67 \$61.32 Period 3 \$39.57 \$52.00 \$64.42 Period 5 \$42.68 \$56.66 \$70.64 Period 6 \$44.23 \$58.52 \$73.74 Operating Engineer - Marine Construction Diver/Wet Tender, Engineer (hydraulic dredge) GLF-1 \$49.29 \$64.74 \$80.19 X X H H H H H D Y Holidays paid at \$95.64 per hour Subdivision of county all Great Lakes, islands therein, & connecting & tributary waters Crane/Backhoe Operator, Mechanic/Welder, Assistant GLF-2 \$47.79 \$62.49 \$77.19 X X H H H H H D Y Poiver Tender Holidays paid at \$91.89 per hour Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters \$70.79 X X H H H H H D Y Deck Equipment Operator, Machineryman, Maintenance of GLF-3 \$44.59 \$57.69 \$70.79 X X H H H H H D Y Molidays paid at \$83.89 per hour Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters \$44.59 \$57.69<	Fireman or oiler	EN-324-FO	\$35.93	\$46.44	\$56.94 H H D H D D D D Y
Apprentice Rates: Period 1 \$36.47 \$47.34 \$58.22 Period 2 \$38.02 \$49.67 \$61.32 Period 3 \$33.57 \$52.00 \$64.42 Period 5 \$42.68 \$56.66 \$70.64 Period 6 \$44.23 \$58.99 \$73.74 Operating Engineer - Marine Construction Diver/Wet Tender, Engineer (hydraulic dredge) GLF-1 \$49.29 \$64.74 \$80.19 X X H H H H H D Y Holidays paid at \$95.64 per hour Subdivision of county all Great Lakes, islands therein, & connecting & tributary waters Crane/Backhoe Operator, Mechanic/Welder, Assistant Guide \$91.89 per hour GLF-2 \$47.79 \$62.49 \$77.19 X X H H H H H D Y Project 10:50:00 Ibs.or more), Tug/Launch Operator, Machineryman, Maintenance of GLF-3 \$44.59 \$57.69 \$70.79 X X H H H H H D Y Holidays paid \$91.89 per hour Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters Deck Equipment Operator, Machineryman, Maintenance of GLF-3 \$44.59 \$57.69 \$70.79 X X H H H H D Y Normacity, Tug/Launch Operator, Loader, Dozer and like equipment on Barge, Breakwater Wall, Slip/Doc or Scow, Deck Machinery \$44.59 \$57.69	Regular crane, job mechanic, concrete pump	EN-324-RC	\$46.95	\$62.97	\$78.98 H H D H D D D D Y
Period 1 \$36.47 \$47.34 \$58.22 Period 2 \$38.02 \$49.67 \$61.32 Period 3 \$39.57 \$52.00 \$64.42 Period 4 \$41.12 \$54.32 \$67.52 Period 6 \$44.23 \$56.66 \$70.64 Operating Engineer - Marine Construction Diver/Wet Tender, Engineer (hydraulic dredge) GLF-1 \$49.29 \$64.74 \$80.19 X X H H H H H D Y Holidays paid at \$95.64 per hour Subdivision of county all Great Lakes, islands therein, & connecting & tributary waters Verious of county all Great Lakes, islands therein, & connecting & tributary waters \$62.49 \$77.19 X X H H H H H D Y Holidays paid \$91.89 per hour Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters \$57.69 \$70.79 X X H H H H H D Y Perioet Operator, Machineryman, Maintenance of Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters \$57.69 \$70.79 X X H H H H H D Y Perioet Dever 50 ton capacity) or Backhoe (115,000 lbs. or \$44.59 \$57.69 \$70.79 X X H H H H H D Y Official Pequest #: 566 Requestor: TROY SCHOOL DISTRICT Project Namber: NEW BAKER MIDDLE SCHOOL Every contractor and subcontractor shall keep posted on the		EN-324-RE	\$45.98	\$61.51	\$77.04 H H D H D D D D Y
Period 1 \$36.47 \$47.34 \$58.22 Period 2 \$38.02 \$49.67 \$61.32 Period 3 \$39.57 \$52.00 \$64.42 Period 4 \$41.12 \$54.32 \$67.52 Period 6 \$44.23 \$56.66 \$70.64 Operating Engineer - Marine Construction Diver/Wet Tender, Engineer (hydraulic dredge) GLF-1 \$49.29 \$64.74 \$80.19 X X H H H H H D Y Holidays paid at \$95.64 per hour Subdivision of county all Great Lakes, islands therein, & connecting & tributary waters Verious of county all Great Lakes, islands therein, & connecting & tributary waters \$62.49 \$77.19 X X H H H H H D Y Holidays paid \$91.89 per hour Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters \$57.69 \$70.79 X X H H H H H D Y Perioet Operator, Machineryman, Maintenance of Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters \$57.69 \$70.79 X X H H H H H D Y Perioet Dever 50 ton capacity) or Backhoe (115,000 lbs. or \$44.59 \$57.69 \$70.79 X X H H H H H D Y Official Pequest #: 566 Requestor: TROY SCHOOL DISTRICT Project Namber: NEW BAKER MIDDLE SCHOOL Every contractor and subcontractor shall keep posted on the	Apprentice Bat	tes:			
Period 2 \$38.02 \$49.67 \$61.32 Period 3 \$39.57 \$52.00 \$64.42 Period 4 \$41.12 \$54.32 \$57.52 Period 5 \$42.68 \$56.66 \$70.64 Period 6 \$44.23 \$58.99 \$73.74 Operating Engineer - Marine Construction Diver/Wet Tender, Engineer (hydraulic dredge) GLF-1 \$49.29 \$64.74 \$80.19 X X H H H H H D Y Holidays paid at \$95.64 per hour Subdivision of county all Great Lakes, islands therein, & connecting & tributary waters Crane/Backhoe Operator, Mechanic/Welder, Assistant GLF-2 \$47.79 \$62.49 \$77.19 X X H H H H H D Y Biddivision of county All Great Lakes, islands therein, & connecting & tributary waters Statistical statisti			¢06.47	¢47.04	¢59.00
Period 3 \$39,57 \$52.00 \$64.42 Period 4 \$41.12 \$54.32 \$67.52 Period 6 \$44.23 \$56.66 \$70.64 Period 7 \$42.26 \$67.72 \$57.99 Operating Engineer - Marine Construction Diver/Wet Tender, Engineer (hydraulic dredge) GLF-1 \$49.29 \$64.74 \$80.19 X X H H H H D Y Holidays paid at \$95.64 per hour Subdivision of county all Great Lakes, islands therein, & connecting & tributary waters Crane/Backhoe Operator, Mechanic/Welder, Assistant GLF-2 \$47.79 \$62.49 \$77.19 X X H H H H H D Y Engineer (hydraulic dredge), Leverman (hydraulic dredge), Diver Tender \$44.59 \$57.69 \$70.79 X X H H H H H D Y Holidays paid \$91.89 per hour Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters \$57.69 \$70.79 X X H H H H H D Y Crane (over 50 ton capacity) or Backhoe (115,000 lbs. or more), Tug/Launch Operator, Machineryman, Maintenance of GLF-3 \$44.59 \$57.69 \$70.79 X X H H H H H D Y Molidays paid at \$83.89 per hour Cofficial Request # 566 Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fring benefit rates Official Request # 5					•
Period 4 \$41,12 \$54,32 \$67,52 Period 5 \$42,68 \$56,66 \$70,64 Period 6 \$44,23 \$58,99 \$73,74 Operating Engineer - Marine Construction Diver/Wet Tender, Engineer (hydraulic dredge) GLF-1 \$49,29 \$64,74 \$80,19 X X H H H H H D Y Holidays paid at \$95,64 per hour Subdivision of county all Great Lakes, islands therein, & connecting & tributary waters Crane/Backhoe Operator, Mechanic/Welder, Assistant GLF-2 \$47.79 \$62.49 \$77,19 X X H H H H H D Y Holidays paid \$91.89 per hour Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters S77,19 X X H H H H H D Y Crane/Backhoe Operator, Machineryman, Maintenance of county GLF-3 \$44.59 \$57.69 \$70.79 X X H H H H H D Y Project Description: INSTALLATION OF UNDERGROUND CONDUIT \$44.59 \$57.69 \$70.79 X X H H H H H D Y Official Request #: 566 Requestor: TOO yaze and like \$44.59 \$57.69 \$70.79 X X H H H H H D Y Official Request #: 566 Requestor: TOO yaze and like Every contractor and subcontractor shall keep posted on the construction site, in a consplcuous place, a copy of all prevailing wage and fringe benefi					•
Period 5 Period 6 \$42.68 \$44.23 \$56.66 \$58.99 \$70.64 \$73.74 Operating Engineer - Marine Construction Diver/Wet Tender, Engineer (hydraulic dredge) GLF-1 \$49.29 \$64.74 \$80.19 X X H H H H H D Y Holidays paid at \$95.64 per hour Subdivision of county all Great Lakes, islands therein, & connecting & tributary waters \$77.19 X X H H H H H D Y Crane/Backhoe Operator, Mechanic/Welder, Assistant Engineer (hydraulic dredge), Leverman (hydraulic dredge), Diver Tender \$47.79 \$62.49 \$77.19 X X H H H H H D Y Holidays paid \$91.89 per hour Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters \$57.69 \$70.79 X X H H H H H D Y Period 6 GLF-2 \$44.59 \$57.69 \$70.79 X X H H H H H D Y Holidays paid \$91.89 per hour Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters \$57.69 \$70.79 X X H H H H H D Y Period 6 Requestor: TROY SCHOOL DISTRICT Project Numchore Project Number Wall, Slip/Doc or Scow, Deck Machinery \$57.69 \$70.79 X X H H H H H D Y Project Number: NEW BAKER MIDDLE SCHOOL Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and finge benefit rates					•
Period 6 \$44.23 \$58.99 \$73.74 Operating Engineer - Marine Construction Diver/Wet Tender, Engineer (hydraulic dredge) GLF-1 \$49.29 \$64.74 \$80.19 X X H H H H H D Y Holidays paid at \$95.64 per hour <u>Subdivision of county</u> all Great Lakes, islands therein, & connecting & tributary waters Frame/Backhoe Operator, Mechanic/Welder, Assistant Engineer (hydraulic dredge), Leverman (hydraulic dredge), Diver Tender GLF-2 \$47.79 \$62.49 \$77.19 X X H H H H H D Y Holidays paid \$91.89 per hour <u>Subdivision of county</u> All Great Lakes, islands therein, & connecting & tributary waters \$57.69 \$70.79 X X H H H H H D Y Peck Equipment Operator, Machineryman, Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 lbs. or more), Tug/Launch Operator, Loader, Dozer and like equipment on Barge, Breakwater Wall, Slip/Doc or Scow, Deck Machinery \$57.69 \$70.79 X X H H H H H D Y Holidays paid at \$83.89 per hour State					
Operating Engineer - Marine Construction Diver/Wet Tender, Engineer (hydraulic dredge) GLF-1 \$49.29 \$64.74 \$80.19 X X H H H H H D Y Holidays paid at \$95.64 per hour Subdivision of county all Great Lakes, islands therein, & connecting & tributary waters Crane/Backhoe Operator, Mechanic/Welder, Assistant GLF-2 \$47.79 \$62.49 \$77.19 X X H H H H H D Y Project Number All Great Lakes, islands therein, & connecting & tributary waters \$62.49 \$77.19 X X H H H H H D Y Project Number All Great Lakes, islands therein, & connecting & tributary waters \$62.49 \$77.19 X X H H H H H D Y Project Number All Great Lakes, islands therein, & connecting & tributary waters \$62.49 \$77.79 X X H H H H H D Y Project Number All Great Lakes, islands therein, & connecting & tributary waters \$57.69 \$70.79 X X H H H H H D Y Project Number Machineryman, Maintenance of GLF-3 \$44.59 \$57.69 \$70.79 X X H H H H H D Y Holidays paid at \$83.89 per hour Stributary waters Stributary waters Stributary waters \$57.69 \$70.79 X X H H H H H D Y Holidays paid at \$83.89 per hour Stributary waters Stributary waters Stributary waters \$57.69 \$70.79 X X H H H H H D Y Officia					
Diver/Wet Tender, Engineer (hydraulic dredge) GLF-1 \$49.29 \$64.74 \$80.19 X X H H H H H D Y Holidays paid at \$95.64 per hour Subdivision of county all Great Lakes, islands therein, & connecting & tributary waters Crane/Backhoe Operator, Mechanic/Welder, Assistant GLF-2 \$47.79 \$62.49 \$77.19 X X H H H H H D Y Engineer (hydraulic dredge), Leverman (hydraulic dredge), Diver Tender \$47.79 \$62.49 \$77.19 X X H H H H H D Y Holidays paid \$91.89 per hour Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters Deck Equipment Operator, Machineryman, Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 lbs. or more), Tug/Launch Operator, Loader, Dozer and like equipment on Barge, Breakwater Wall, Slip/Doc or Scow, Deck Machinery \$44.59 \$57.69 \$70.79 X X H H H H H D Y Holidays paid at \$83.89 per hour Cofficial Request #: 566 Requestor: TROY SCHOOL DISTRICT Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates	Period 6		\$44.23	\$58.99	\$73.74
Holidays paid at \$95.64 per hour Subdivision of county all Great Lakes, islands therein, & connecting & tributary waters Crane/Backhoe Operator, Mechanic/Welder, Assistant GLF-2 \$47.79 \$62.49 \$77.19 X X H H H H H D Y Engineer (hydraulic dredge), Leverman (hydraulic dredge), Diver Tender \$47.79 \$62.49 \$77.19 X X H H H H H D Y Holidays paid \$91.89 per hour Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters Deck Equipment Operator, Machineryman, Maintenance of Requipment on Barge, Breakwater Wall, Slip/Doc or Scow, Deck Machinery GLF-3 \$44.59 \$57.69 \$70.79 X X H H H H H D Y Holidays paid at \$83.89 per hour Official Request #: 566 Requestor: TROY SCHOOL DISTRICT State Sta	Operating Engineer - Marine Construction				
Subdivision of county all Great Lakes, islands therein, & connecting & tributary waters Crane/Backhoe Operator, Mechanic/Welder, Assistant GLF-2 \$47.79 \$62.49 \$77.19 X X H H H H H D Y Engineer (hydraulic dredge), Leverman (hydraulic dredge), Diver Tender Molidays paid \$91.89 per hour \$47.79 \$62.49 \$77.19 X X H H H H H D Y Holidays paid \$91.89 per hour Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters Deck Equipment Operator, Machineryman, Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 lbs. or more), Tug/Launch Operator, Loader, Dozer and like equipment on Barge, Breakwater Wall, Slip/Doc or Scow, Deck Machinery \$44.59 \$57.69 \$70.79 X X H H H H H D Y Holidays paid at \$83.89 per hour Official Request # 566 Requestor: TROY SCHOOL DISTRICT Cofficial Request # 566 Requestor: TROY SCHOOL DISTRICT Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates	Diver/Wet Tender, Engineer (hydraulic dredge)	GLF-1	\$49.29	\$64.74	\$80.19 ХХНННННОҮ
Crane/Backhoe Operator, Mechanic/Welder, Assistant GLF-2 \$47.79 \$62.49 \$77.19 X X H H H H H D Y Engineer (hydraulic dredge), Leverman (hydraulic dredge), Diver Tender Holidays paid \$91.89 per hour <u>Subdivision of county</u> All Great Lakes, islands therein, & connecting & tributary waters Deck Equipment Operator, Machineryman, Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 lbs. or more), Tug/Launch Operator, Loader, Dozer and like equipment on Barge, Breakwater Wall, Slip/Doc or Scow, Deck Machinery Holidays paid at \$83.89 per hour Official Request #: 566 Requestor: TROY SCHOOL DISTRICT Project Description: INSTALLATION OF UNDERGROUND CONDUIT Project Number: NEW BAKER MIDDLE SCHOOL	Holidays paid at \$95.64 per hour				
Engineer (hydraulic dredge), Leverman (hydraulic dredge), Diver Tender Holidays paid \$91.89 per hour <u>Subdivision of county</u> All Great Lakes, islands therein, & connecting & tributary waters Deck Equipment Operator, Machineryman, Maintenance of GLF-3 Crane (over 50 ton capacity) or Backhoe (115,000 lbs. or more), Tug/Launch Operator, Loader, Dozer and like equipment on Barge, Breakwater Wall, Slip/Doc or Scow, Deck Machinery Holidays paid at \$83.89 per hour Official Request #: 566 Requestor: TROY SCHOOL DISTRICT Project Description: INSTALLATION OF UNDERGROUND CONDUIT Project Number: NEW BAKER MIDDLE SCHOOL	Subdivision of county all Great Lakes, islands the	rein, & connecting & t	ributary waters		
Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters Deck Equipment Operator, Machineryman, Maintenance of GLF-3 \$44.59 \$57.69 \$70.79 X X H H H H H D Y Crane (over 50 ton capacity) or Backhoe (115,000 lbs. or more), Tug/Launch Operator, Loader, Dozer and like equipment on Barge, Breakwater Wall, Slip/Doc or Scow, Deck Machinery \$44.59 \$57.69 \$70.79 X X H H H H H D Y Holidays paid at \$83.89 per hour Cofficial Request #: 566 School DISTRICT School DISTRICT Project Description: INSTALLATION OF UNDERGROUND CONDUIT Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates		GLF-2	\$47.79	\$62.49	\$77.19 X X H H H H H D Y
Deck Equipment Operator, Machineryman, Maintenance of GLF-3 Crane (over 50 ton capacity) or Backhoe (115,000 lbs. or more), Tug/Launch Operator, Loader, Dozer and like equipment on Barge, Breakwater Wall, Slip/Doc or Scow, Deck Machinery Holidays paid at \$83.89 per hour Official Request #: 566 Requestor: TROY SCHOOL DISTRICT Project Description: INSTALLATION OF UNDERGROUND CONDUIT Project Number: NEW BAKER MIDDLE SCHOOL	Holidays paid \$91.89 per hour				
Crane (over 50 ton capacity) or Backhoe (115,000 lbs. or more), Tug/Launch Operator, Loader, Dozer and like equipment on Barge, Breakwater Wall, Slip/Doc or Scow, Deck Machinery Holidays paid at \$83.89 per hour Official Request #: 566 Requestor: TROY SCHOOL DISTRICT Project Description: INSTALLATION OF UNDERGROUND CONDUIT Project Number: NEW BAKER MIDDLE SCHOOL	Subdivision of county All Great Lakes, islands the	rein, & connecting & t	ributary waters		
Official Request #: 566 Requestor: TROY SCHOOL DISTRICT Project Description: INSTALLATION OF UNDERGROUND CONDUIT Project Number: NEW BAKER MIDDLE SCHOOL		GLF-3	\$44.59	\$57.69	\$70.79 ХХНННННОҮ
Requestor: TROY SCHOOL DISTRICT Project Description: INSTALLATION OF UNDERGROUND CONDUIT Project Number: NEW BAKER MIDDLE SCHOOL	Holidays paid at \$83.89 per hour				
Project Description: INSTALLATION OF UNDERGROUND CONDUIT Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates	•			Officia	al Rate Schedule
Project Number: NEW BAKER MIDDLE SCHOOL copy of all prevailing wage and fringe benefit rates		O CONDUIT			
			copy of all prevailing wage and fringe benefit rates		

Issue Date: 4/27/2007 Contract must be awarded by

7/26/2007

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		Page 10 of 20				
Classification		-	Straight	Time and	Double	
Name Description			Hourly	a Half	Time	Overtime Provision
Subdivision of county All Great	Lakes, islands there	ein, & connecting & tr	ibutary waters			
Deck Equipment Operator, (Machineryman		GLF-4	\$40.19	\$51.09	\$61.99	ХХНННННОҮ
equipment units or more), Deck Hand, De	ck Engineer, &					
Crane Maintenance 50 ton capacity and u						
weighing 115,000 lbs or less, Assistant Tu	ig Operator					
Holidays paid at \$72.89 per hour						
Subdivision of county All Great	Lakes, islands there	ein, & connecting & tr	ibutary waters			
Operating Engineer Hazardous Waste	Class I					
Level A - Fully encapsulating chemical res		EN-324-HWCI-Z1A	\$46.22	\$61.89	\$77.55	ннннннрү
pressure demand, full face piece SCBA or			•		,	
supplied air respirator w/ escape SCBA. T						
available level of respiratory, skin and eye	e protection.					
	Apprentice Rate	es:				
	1st 6 months		\$36.62	\$47.58	\$58.55	
	2nd 6 months		\$38.18	\$49.92	\$61.67	
	3rd 6 months		\$39.75	\$52.28	\$64.81	
	4th 6 months		\$41.31	\$54.62	\$67.93	
	5th 6 months		\$42.89	\$56.99	\$71.09	
	6th 6 months		\$44.45	\$59.33	\$74.21	
Level B & C protection. B - Pressure dem	and full face SCBA		\$45.27	\$60.46	¢75.65	ннннннрү
or pressure demand supplied air respirato		EIN-324-FINGI-ZID	φ4 <u></u> 3.27	Φ 00.40	\$75.65	ישחחחחחי
w/chemical resistant clothing. C - Full fa						
purifying canister-equipped respirator w/c						
clothing.						
	Apprentice Rate	es:				
	1st 6 months		\$35.95	\$46.59	\$57.21	
	2nd 6 months		\$37.48	\$48.88	\$60.27	
	3rd 6 months		\$39.00	\$51.16	\$63.31	
	4th 6 months		\$40.52	\$53.44	\$66.35	
	5th 6 months		\$42.04	\$55.72	\$69.39	
	6th 6 months		\$43.56	\$58.00	\$72.43	
Level D - Coveralls, safety boots, glasses	or chemical solash	EN-324-HWCI-Z1D	\$43.97	\$58.51	\$73.05	нннннрү
goggles and hard hats.	or chemical spidsh		φ-10.07	φ00.01	φ/0.00	
	Apprentice Rate	es:				
	1st 6 months		\$35.05	\$45.23	\$55.41	
	2nd 6 months		\$36.51	\$47.43	\$58.33	
	3rd 6 months		\$37.95	\$49.58	\$61.21	
	4th 6 months		\$39.42	\$51.79	\$64.15	
	5th 6 months		\$40.86	\$53.95	\$67.03	
	6th 6 months		\$42.32	\$56.13	\$69.95	
Official Request #: 566				Officia	al Rat	te Schedule
Requestor: TROY SCHOOL DI						
Project Description: INSTALLATION OF	UNDERGROUND	CONDUIT				or shall keep posted

Project Number: NEW BAKER MIDDLE SCHOOL County: Oakland

Issue Date: 4/27/2007

Contract must be awarded by

Project Number: NEW BAKER MIDDLE SCHOOL

County: Oakland

7/26/2007

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Classification Name Description		Straight Hourly	Time and a Half	Double Time	Overtime Provision
Level D When Capping Landfill Coveralls, safety boots,	EN-324-HWCI-Z1DCL	======================================	======== \$58.14	====== \$72.55	ннннннрү
glasses or chemical splash goggles and hard hats.		¢	<i>q</i> ccrrr	¢/ <u>1</u> .00	
Apprentice Rate	es:				
1st 6 months		\$34.87	\$44.96	\$55.05	
2nd 6 months		\$36.31	\$47.12	\$57.93	
3rd 6 months		\$37.76	\$49.30	\$60.83	
4th 6 months		\$39.20	\$51.45	\$63.71	
5th 6 months 6th 6 months		\$40.63 \$42.08	\$53.60 \$55.78	\$66.57 \$69.47	
Operating Engineer Hazardous Waste Class II					
Level A - Fully encapsulating chemical resistant suit w/	EN-324-HWCII-Z1A	\$41.99	\$55.54	\$69.09	ннннннрү
pressure demand, full face piece SCBA or pressure demand supplied air respirator w/ escape SCBA. The highest available level of respiratory, skin and eye protection.		φ+1.00	φ 00.0 +	φ00.00	
Level B & C protection. B - Pressure demand, full face SCBA or pressure demand supplied air respirator w/ escape SCBA w/chemical resistant clothing. C - Full face piece, air purifying canister-equipped respirator w/chemical resistant clothing.	EN-324-HWCII-Z1B	\$41.04	\$54.12	\$67.19	Н Н Н Н Н Н Н D Y
Level D - Coveralls, safety boots, glasses or chemical splash	EN-324-HWCII-Z1D	\$39.74	\$52.17	\$64.59	ннннннрү
goggles and hard hats.					
Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HWCII-Z1DCL	\$39.49	\$51.79	\$64.09	нннннрү
Operating Engineer Hazardous Waste Crane w/ Boom & leads 140' or longer	Jib				
Level A - Fully encapsulating chemical resistant suit w/	EN-324-HW140-Z1A	\$48.87	\$65.86	¢00.05	ннннннрү
pressure demand, full face piece SCBA or pressure demand supplied air respirator w/ escape SCBA. The highest available level of respiratory, skin and eye protection.	LIN-324-1100140-21A	φ40.07	φ03.00	φ02.03	
Level B & C protection. B - Pressure demand, full face SCBA or pressure demand supplied air respirator w/ escape SCBA w/chemical resistant clothing. C - Full face piece, air purifying canister-equipped respirator w/chemical resistant clothing.	EN-324-HW140-Z1B	\$47.92	\$64.44	\$80.95	нннннн рү
Level D Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HW140-Z1D	\$46.62	\$62.49	\$78.35	нннннрү
Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HW140-Z1DCI	- \$46.37	\$62.11	\$77.85	ННННННОҮ
Official Request #: 566			Offici	al Ra [.]	te Schedule
Requestor: TROY SCHOOL DISTRICT		Every control	tor and out	contract	or shall keep posted
Project Description: INSTALLATION OF UNDERGROUND	CONDON				or shall keep posted

Official 2007 Prevailing Wage Rates for State Funded Projects Issue Date: 4/27/2007 Contract must be awarded by 7/26/2007 Page 12 of 20

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<u>Classification</u> Name Description	-	Straight Hourly	Time and a Half	Double Time Overtime Provision
Operating Engineer Hazardous Waste Crane w/ Boom & Cleads 220' or longer	Jib			
Level A - Fully encapsulating chemical resistant suit w/ pressure demand, full face piece SCBA or pressure demand supplied air respirator w/ escape SCBA. The highest available level of respiratory, skin and eye protection.	EN-324-HW220-Z1A	\$49.17	\$66.31	\$83.45 H H H H H H H D Y
Level B & C protection. B - Pressure demand, full face SCBA or pressure demand supplied air respirator w/ escape SCBA w/chemical resistant clothing. C - Full face piece, air purifying canister-equipped respirator w/chemical resistant clothing.	EN-324-HW220-Z1B	\$48.22	\$64.89	\$81.55 НННННННО Ү
Level D Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HW220-Z1D	\$46.92	\$62.94	\$78.95 Н Н Н Н Н Н Н О Ү
Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HW220-Z1DCL	\$46.67	\$62.56	\$78.45 H H H H H H H D Y
Operating Engineer Hazardous Waste Regular Crane, Job Mechanic, Dragline Operator, Boom Truck Operator, and Concrete Pump with Boom Operator				
Level D - Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HWRC-Z1D	\$44.94	\$59.97	\$74.99 Н Н Н Н Н Н Н D Y
Operating Engineer Hazardous Waste Regular Crane, Job Mechanic, Dragline Operator, Boom Truck Operator, Pow Shovel Operator and Concrete Pump with boom				
Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HWRC-Z1DCL	\$44.07	\$58.66	\$73.25 Н Н Н Н Н Н Н D Y
Operating Engineer Hazardous Waste Regular Crane, Job Mechanic, Dragline Operator, Boom Truck Operator, Pow Shovel Operator and Concrete Pump with booms				
Level B & C protection. B - Pressure demand, full face SCBA or pressure demand supplied air respirator w/ escape SCBA w/chemical resistant clothing. C - Full face piece, air purifying canister-equipped respirator w/chemical resistant clothing.	EN-324-HWRC-Z1B	\$46.24	\$61.92	\$77.59 Н Н Н Н Н Н Н О Ү
Operating Engineer Hazardous Waste Regular Crane, Job Mechanic, Dragline Operator, Boom Truck Operator, Pow Shovel Operators and Concrete Pump with booms				
Level A - Fully encapsulating chemical resistant suit w/ pressure demand, full face piece SCBA or pressure demand supplied air respirator w/ escape SCBA. The highest available level of respiratory, skin and eye protection.	EN-324-HWRC-Z1A	\$47.19	\$63.34	\$79.49 Н Н Н Н Н Н Н О Ү
Operating Engineer Steel Work Crane w/ 120' boom or longer	EN-324-SW120	\$51.51	\$69.80	\$88.08 H H D H H H D D Y
		ψ01.01		al Rate Schedule
Official Request #: 566 Requestor: TROY SCHOOL DISTRICT				
Project Description: INSTALLATION OF UNDERGROUND Project Number: NEW BAKER MIDDLE SCHOOL County: Oakland	CONDUIT	on the constr	uction site, evailing wag	contractor shall keep posted in a conspicuous place, a je and fringe benefit rates

Issue Date: 4/27/2007

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<u>Classification</u> Name Description			Straight Hourly	Time and a Half	Double Time	Overtime Provision
Crane w/ 120' boom or longer w/ Oiler		EN-324-SW120-O	\$52.51	\$71.30	\$90.08	ННОНННООҮ
Crane w/ 140' boom or longer		EN-324-SW140	\$52.69	\$71.57	\$90.44	ННДНННДДҮ
Crane w/ 140' boom or longer W/ Oiler		EN-324-SW140-O	\$53.69	\$73.07	\$92.44	ННДНННДДҮ
Boom & Jib 220' or longer		EN-324-SW220	\$52.96	\$71.97	\$90.98	ННОНННООҮ
Crane w/ 220' boom or longer w/ Oiler		EN-324-SW220-O	\$53.96	\$73.47	\$92.98	ННОНННООҮ
Boom & Jib 300' or longer		EN-324-SW300	\$54.46	\$74.22	\$93.98	ННОНННООҮ
Crane w/ 300' boom or longer w/ Oiler		EN-324-SW300-O	\$55.46	\$75.72	\$95.98	ННОНННООҮ
Boom & Jib 400' or longer		EN-324-SW400	\$55.96	\$76.47	\$96.98	ННОНННООҮ
Crane w/ 400' boom or longer w/ Oiler		EN-324-SW400-O	\$56.96	\$77.97	\$98.98	ННОНННООҮ
Crane Operator & Job Mechanic	Annuantine Det	EN-324-SWCO	\$51.15	\$69.26	\$87.36	ННОНННООҮ
	Apprentice Rat 0-999 hours 1,000-1,999 hou 2,000-2,999 hou 3,000-3,999 hou 4,000-4,999 hou 5,000 hours	irs irs	\$40.04 \$41.85 \$43.66 \$45.48 \$47.28 \$49.10	\$52.72 \$55.43 \$58.14 \$60.88 \$63.58 \$66.31	\$65.39 \$69.01 \$72.63 \$76.27 \$79.87 \$83.51	
Crane w/ Oiler		EN-324-SWCO-O	\$52.15	\$70.76	\$89.36	ННДНННДДҮ
Compressor or Welder Operator		EN-324-SWCW	\$43.70	\$58.08	\$72.46	ННДНННДДҮ
Hoisting Operator		EN-324-SWHO	\$50.51	\$68.30	\$86.08	ННДНННДДҮ
Oiler		EN-324-SWO	\$42.29	\$55.97	\$69.64	ННДНННДДҮ
Tower Crane & Derrick where work is 50' of first level	or more above	EN-324-SWTD50	\$52.24	\$70.89	\$89.54	ННОНННООҮ
Tower Crane & Derrick 50' or more w/ Oile station is 50' or more above first level	er where work	EN-324-SWTD50-O	\$53.24	\$72.39	\$91.54	ННОНННООҮ

Official Request #: 566 Requestor: TROY SCHOOL DISTRICT Project Description: INSTALLATION OF UNDERGROUND CONDUIT Project Number: NEW BAKER MIDDLE SCHOOL County: Oakland

Official Rate Schedule

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<u>Classification</u> Name Description ====================================		Straight Hourly	Time and a Half	Double Time	Overtime Provision
Operating Engineer Underground					
Class I Equipment	EN-324A1-UC1	\$43.72	\$58.11	\$72.50	ннннннрү
Apprentic	e Rates:				
0-999 hou	rs	\$34.89	\$44.97	\$55.04	
1,000-1,99	99 hours	\$36.33	\$47.13	\$57.92	
2,000-2,99	99 hours	\$37.76	\$49.27	\$60.78	
3,000-3,99	99 hours	\$39.21	\$51.45	\$63.68	
4,000-4,99	99 hours	\$40.65	\$53.61	\$66.56	
5,000-5,99	99 hours	\$42.09	\$55.77	\$69.44	
Class II Equipment	EN-324A1-UC2	\$38.99	\$51.02	\$63.04	ннннннрү
Class III Equipment	EN-324A1-UC3	\$38.26	\$49.92	\$61.58	ннннннрү
Class IV Equipment	EN-324A1-UC4	\$37.69	\$49.07	\$60.44	ннннннрү
Master Mechanic	EN-324A1-UMM	\$43.97	\$58.49	\$73.00	нннннрү
Painter					
Painter (8 hours of repaint work performed on Sunday be paid time & one half rate)	shall PT-22-P	\$38.01	\$50.24	\$62.47	ННДНДДДЛИ
Apprentic	e Rates:				
First 6 mo	nths	\$25.78	\$31.89	\$38.01	
Second 6		\$29.45	\$37.40	\$45.35	
Third 6 mc	onths	\$30.67	\$39.23	\$47.79	
Fourth 6 m	nonths	\$31.89	\$41.06	\$50.23	
Fifth 6 mo	nths	\$33.12	\$42.91	\$52.69	
Final 6 mc	onths	\$34.34	\$44.73	\$55.13	
Sandblasting & spraywork performed, on highway brid overpases, tanks or steel, OR spraywork & sandblastin done with a scaffold height of 40' above the floor level	g	\$38.81	\$51.44	\$64.07	H H D H D D D D N

Official Request #: 566 Requestor: TROY SCHOOL DISTRICT Project Description: INSTALLATION OF UNDERGROUND CONDUIT Project Number: NEW BAKER MIDDLE SCHOOL

County: Oakland

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	ssification		Straight	Time and	Double	
Name	Description		Hourly	a Half	Time Overtime Provisior	
Pipefitte	er					
Pipefitte		PF-636	\$51.46	\$66.44	\$81.41 H H D H D D D D	N
		Apprentice Rates:		+	•••••	
		1st & 2nd periods	\$26.23	\$33.23	\$40.23	
		3rd period	\$28.23	\$36.23	\$44.23	
		4th period	\$29.48	\$38.11	\$46.73	
		5th period	\$30.73	\$39.98	\$49.23	
		6th period	\$31.98	\$41.85	\$51.73	
		7th period	\$33.23	\$43.73	\$54.23	
		8th period	\$34.23	\$45.23	\$56.23	
		9th period	\$35.23	\$46.73	\$58.23	
		10th period	\$36.66	\$48.87	\$61.09	
Plastere	er					
Plastere	r	BR1P	\$41.92	\$62.88	\$83.84 H H H H H H H D	Ν
		Apprentice Rates:				
		1st 6 months	\$21.61	\$32.41	\$43.22	
		2nd 6 months	\$25.00	\$37.50	\$50.00	
		3rd 6 months	\$28.39	\$42.59	\$56.78	
		4th 6 months	\$31.83	\$47.75	\$63.66	
		5th 6 months	\$35.16	\$50.94	\$67.92	
		6th 6 months	\$38.53	\$57.80	\$77.06	
Plastere	r	PL67	\$41.92	\$57.03	\$72.14 H H H X D D D D	N
		Apprentice Rates:	• -		,	
		1st 6 months	\$23.71	\$29.72	\$35.72	
		2nd 6 months	\$26.81	\$34.36	\$41.92	
		3rd 6 months	\$29.83	\$38.90	\$47.96	
		4th 6 months	\$32.85	\$43.42	\$54.00	
		5th 6 months	\$35.88	\$47.97	\$60.06	
		6th 6 months	\$38.90	\$52.50	\$66.10	

Official Request #: 566 Requestor: TROY SCHOOL DISTRICT Project Description: INSTALLATION OF UNDERGROUND CONDUIT

Project Number: NEW BAKER MIDDLE SCHOOL County: Oakland

Official Rate Schedule

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Official Request #:	566
Requestor:	TROY SCHOOL DISTRICT
Project Description:	INSTALLATION OF UNDERGROUND CONDUIT
	NEW BAKER MIDDLE SCHOOL Oakland

Official Rate Schedule

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<u>Classification</u>		Straight	Time and	Double
Name Description		Hourly	a Half	Time Overtime Provision
Sprinkler Fitter				
Sprinkler Fitter	SP 704	\$54.02	\$72.89	\$91.75 H H D H D D D D Y
	Apprentice Rates:			
	1st Period	\$31.38	\$38.93	\$46.47
	2nd Period	\$33.27	\$41.76	\$50.25
	3rd Period	\$35.15	\$44.58	\$54.01
	4th Period	\$37.04	\$47.41	\$57.79
	5th Period	\$38.93	\$50.25	\$61.57
	6th Period	\$40.81	\$53.07	\$65.33
	7th Period	\$42.70	\$55.91	\$69.11
	8th Period	\$44.59	\$58.74	\$72.89
	9th Period	\$46.47	\$61.56	\$76.65
	10th Period	\$48.36	\$64.39	\$80.43
Terrazzo				
Terrazzo Finisher	TT32-TRF	\$38.77	\$49.06	\$59.34 H H D H D D D D N
	Apprentice Rates:	+	+	•••••
	Level 1	\$19.72	\$25.71	\$31.69
	Level 2	\$20.39	\$26.71	\$33.03
	Level 3	\$23.86	\$30.27	\$36.69
	Level 4	\$25.16	\$32.23	\$39.29
	Level 5	\$26.49	\$33.74	\$41.00
	Level 6	\$27.92	\$35.33	\$42.74
	Level 7	\$29.41	\$37.18	\$44.96
	Level 8	\$30.73	\$38.74	\$46.76
Terrazzo Worker	TT32-TRW	\$43.79	\$56.59	\$69.38 H H D H D D D D N
	Apprentice Rates:	• • • • • •		••••••
	Level 1	\$24.11	\$30.98	\$37.86
	Level 2	\$26.83	\$34.42	\$42.00
	Level 3	\$29.60	\$37.44	\$45.28
	Level 4	\$32.00	\$40.68	\$49.36
	Level 5	\$34.08	\$43.15	\$52.21
	Level 6	\$37.34	\$47.85	\$58.35
	Level 7	\$38.42	\$49.33	\$60.25
	Level 8	\$39.25	\$50.58	\$61.91

Official Request #: 566 Requestor: TROY SCHOOL DISTRICT Project Description: INSTALLATION OF UNDERGROUND CONDUIT

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Classification Name Description			Straight Hourly	Time and a Half	Double Time	Overtime Provision
 Tile						
Tile Finisher		TT32-TF	\$38.39	\$48.49	\$58 58	ннонооол
	Apprentic		ψ00.03	ψ+0.+3	ψ00.00	
	Level 1		\$18.63	\$24.07	\$29.51	
	Level 2		\$18.63 \$19.69	\$24.07 \$25.66	\$29.51	
	Level 2		\$23.83	\$20.23	\$36.63	
	Level 4		\$25.03 \$25.13	\$32.18	\$39.23	
	Level 5		\$26.46	\$33.70	\$40.94	
	Level 6		\$27.89	\$35.48	\$43.08	
	Level 7		\$29.38	\$37.01	\$44.65	
	Level 8		\$30.70	\$38.57	\$46.45	
Tile Layer		TT32-TL	\$43.69	\$56.44	\$69.18	ннрнррри
	Apprentic	e Rates:				
	Level 1		\$24.11	\$30.98	\$37.86	
	Level 2		\$26.83	\$34.42	\$42.00	
	Level 3		\$29.60	\$37.44	\$45.28	
	Level 4		\$32.00	\$40.68	\$49.36	
	Level 5		\$34.03	\$42.94	\$51.86	
	Level 6		\$37.29	\$47.77	\$58.25	
	Level 7		\$37.87	\$48.51	\$59.15	
	Level 8		\$38.70	\$49.75	\$60.81	
Truck Driver						
on all trucks of 8 cubic yard cap	acity or less	TM-RB1	\$33.66	\$35.99		ннннннү
of all trucks of 8 cubic yard capa	acity or over	TM-RB1A	\$33.76	\$36.14		ннннннү
on euclid type equipment		TM-RB1B	\$33.91	\$36.36		нннннннү
Underground Laborer Open C	ut, Class I					
Construction Laborer		LAUC-Z1-1	\$32.39	\$42.99	\$53.58	нннннрү
	Apprentic		·			
	0-1,000 w		\$27.59	\$35.78	\$43.98	
	· · ·	00 work hours	\$28.55	\$37.22	\$45.90	
		00 work hours	\$29.51	\$38.66	\$47.82	
	3,001-4,00		\$31.43	\$41.54	\$51.66	

Official Request #: 566 Requestor: TROY SCHOOL DISTRICT Project Description: INSTALLATION OF UNDERGROUND CONDUIT Project Number: NEW BAKER MIDDLE SCHOOL County: Oakland

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<u>Classification</u>				
		Straight	Time and	Double
Name Description		Hourly	a Half	Time Overtime Provision
Inderground Laborer Open Cut,	Class II			
lortar and material mixer, concrete	form man, signal man, LAUC-Z1-2	\$32.50	\$43.15	\$53.80 Н Н Н Н Н Н Н Д Ү
vell point man, manhole, headwall				
guard rail builders, headwall, seaw	all, breakwall, dock			
builder and fence erector.				
	Apprentice Rates:			
	0-1,000 work hours	\$27.68	\$35.92	\$44.16
	1,001-2,000 work hours	\$28.64	\$37.36	\$46.08
	2,001-3,000 work hours	\$29.60	\$38.80	\$48.00
	3,001-4,000 work hours	\$31.54	\$41.71	\$51.88
Underground Laborer Open Cut,	Class III			
Air, gasoline and electric tool operat		\$32.55	\$43.23	\$53.90 ННННННР Ү
Irillers, pump man, tar kettle opera		<i>402.00</i>	¢.0.20	\$00.00 ··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··
einforced steel or mesh man (e.g.				
dowel bars, etc.), cement finisher, v				
boring man, wagon drill and air trac	k operator and			
concrete saw operator (under 40 h.	p.), windlass and tugger			
concrete saw operator (under 40 h. man, and directional boring man.	p.), windlass and tugger			
concrete saw operator (under 40 h.	p.), windlass and tugger Apprentice Rates:			
concrete saw operator (under 40 h.		\$27.71	\$35.96	\$44.22
concrete saw operator (under 40 h.	Apprentice Rates:	\$27.71 \$28.68	\$35.96 \$37.42	\$44.22 \$46.16
concrete saw operator (under 40 h.	Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours			
concrete saw operator (under 40 h.	Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours	\$28.68	\$37.42	\$46.16
concrete saw operator (under 40 h. man, and directional boring man.	Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours	\$28.68 \$29.65	\$37.42 \$38.88	\$46.16 \$48.10
oncrete saw operator (under 40 h. man, and directional boring man. Jnderground Laborer Open Cut,	Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours	\$28.68 \$29.65	\$37.42 \$38.88	\$46.16 \$48.10
concrete saw operator (under 40 h. man, and directional boring man. Jnderground Laborer Open Cut ,	Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours	\$28.68 \$29.65 \$31.58	\$37.42 \$38.88 \$41.77	\$46.16 \$48.10 \$51.96
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concrete saw operator (under 40 h.	Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours Class IV LAUC-Z1-4 Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours	\$28.68 \$29.65 \$31.58 \$32.63 \$27.77 \$28.74	\$37.42 \$38.88 \$41.77 \$43.35 \$36.06 \$37.51	\$46.16 \$48.10 \$51.96 \$54.06 H H H H H H H D Y \$44.34 \$46.28
concrete saw operator (under 40 h. man, and directional boring man. Jnderground Laborer Open Cut,	Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours Class IV LAUC-Z1-4 Apprentice Rates: 0-1,000 work hours	\$28.68 \$29.65 \$31.58 \$32.63 \$27.77	\$37.42 \$38.88 \$41.77 \$43.35 \$36.06	\$46.16 \$48.10 \$51.96 \$54.06 H H H H H H H D Y \$44.34
concrete saw operator (under 40 h. man, and directional boring man. Underground Laborer Open Cut , French or excavating grade man.	Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours Class IV LAUC-Z1-4 Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours 3,001-4,000 work hours	\$28.68 \$29.65 \$31.58 \$32.63 \$27.77 \$28.74 \$29.72	\$37.42 \$38.88 \$41.77 \$43.35 \$36.06 \$37.51 \$38.98	\$46.16 \$48.10 \$51.96 \$54.06 H H H H H H H D Y \$44.34 \$46.28 \$48.24
concrete saw operator (under 40 h. man, and directional boring man. Underground Laborer Open Cut, French or excavating grade man.	Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours Class IV LAUC-Z1-4 Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours 3,001-4,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours 3,001-4,000 work hours	\$28.68 \$29.65 \$31.58 \$32.63 \$27.77 \$28.74 \$29.72 \$31.66	\$37.42 \$38.88 \$41.77 \$43.35 \$36.06 \$37.51 \$38.98 \$41.89	\$46.16 \$48.10 \$51.96 \$54.06 H H H H H H H D Y \$44.34 \$46.28 \$48.24 \$52.12
concrete saw operator (under 40 h. man, and directional boring man. Jnderground Laborer Open Cut, French or excavating grade man.	Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours 3,001-4,000 work hours Apprentice Rates: 0-1,000 work hours 0-1,000 work hours 1,001-2,000 work hours 3,001-4,000 work hours	\$28.68 \$29.65 \$31.58 \$32.63 \$27.77 \$28.74 \$29.72	\$37.42 \$38.88 \$41.77 \$43.35 \$36.06 \$37.51 \$38.98	\$46.16 \$48.10 \$51.96 \$54.06 H H H H H H H D Y \$44.34 \$46.28 \$48.24
concrete saw operator (under 40 h. man, and directional boring man. Jnderground Laborer Open Cut, French or excavating grade man.	Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours 3,001-4,000 work hours LAUC-Z1-4 Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours	\$28.68 \$29.65 \$31.58 \$32.63 \$27.77 \$28.74 \$29.72 \$31.66 \$32.69	\$37.42 \$38.88 \$41.77 \$43.35 \$36.06 \$37.51 \$38.98 \$41.89 \$43.44	\$46.16 \$48.10 \$51.96 \$54.06 H H H H H H H D Y \$44.34 \$46.28 \$48.24 \$52.12 \$54.18 H H H H H H H H D Y
concrete saw operator (under 40 h. man, and directional boring man. Underground Laborer Open Cut, Trench or excavating grade man. Underground Laborer Open Cut,	Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours 3,001-4,000 work hours LAUC-Z1-4 Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours 3,001-4,000 work hours 3,001-4,000 work hours 3,001-4,000 work hours 0-1,000 work hours 0,001 work hours	\$28.68 \$29.65 \$31.58 \$32.63 \$27.77 \$28.74 \$29.72 \$31.66 \$32.69 \$27.82	\$37.42 \$38.88 \$41.77 \$43.35 \$36.06 \$37.51 \$38.98 \$41.89 \$43.44 \$36.13	\$46.16 \$48.10 \$51.96 \$54.06 H H H H H H H D Y \$44.34 \$46.28 \$48.24 \$52.12 \$54.18 H H H H H H H D Y \$44.44
concrete saw operator (under 40 h. man, and directional boring man. Underground Laborer Open Cut,	Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours 3,001-4,000 work hours LAUC-Z1-4 Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours	\$28.68 \$29.65 \$31.58 \$32.63 \$27.77 \$28.74 \$29.72 \$31.66 \$32.69	\$37.42 \$38.88 \$41.77 \$43.35 \$36.06 \$37.51 \$38.98 \$41.89 \$43.44	\$46.16 \$48.10 \$51.96 \$54.06 H H H H H H H D Y \$44.34 \$46.28 \$48.24 \$52.12 \$54.18 H H H H H H H H D Y

Official Request #: 566 Requestor: TROY SCHOOL DISTRICT Project Description: INSTALLATION OF UNDERGROUND CONDUIT Project Number: NEW BAKER MIDDLE SCHOOL County: Oakland

Official Rate Schedule
Official 2007 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/27/2007

Contract must be awarded by

3,001-4,000 work hours

7/26/2007

\$26.08

\$33.52

\$40.96

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<u>Classification</u>			Straight	Time and	Double		
Name Description			Hourly	a Half	Time	Overtime Provision	
Underground Laborer Open Cut, Class	s VI						
Grouting man, top man assistant, audio v operations and all other operations in cor closed circuit television inspection, pipe o relining work.	nnection with	LAUC-Z1-6	\$30.14	\$39.61	\$49.08	Н Н Н Н Н Н Н Д Ү	
	Apprentice Ra	tes:					
	0-1,000 work hours 1,001-2,000 work hours		\$25.90	\$33.25	\$40.60		
			\$26.75	\$34.52	\$42.30		
2,001-3,000 work hours 3,001-4,000 work hours		\$27.60	\$35.80	\$44.00			
		\$29.29	\$38.34	\$47.38			
Underground Laborer Open Cut, Class	s VII						
Restoration laborer, seeding, sodding, pla mulching and topsoil grading and the res property such as replacing mail boxes, we boxes, flagstones etc.	toration of	LAUC-Z1-7	\$26.76	\$34.54	\$42.32	Н Н Н Н Н Н Н О Ү	
	Apprentice Ra	tes:					
	0-1.000 work he	ours	\$23.37	\$29.46	\$35.54		
	1,001-2,000 wo	ork hours	\$24.05	\$30.48	\$36.90		
	2,001-3,000 wo	ork hours	\$24.73	\$31.50	\$38.26		

Official Request #: 566 Requestor: TROY SCHOOL DISTRICT Project Description: INSTALLATION OF UNDERGROUND CONDUIT

Official Rate Schedule

Project Number: NEW BAKER MIDDLE SCHOOL County: Oakland

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.

SECTION 01000 – GENERAL REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Summary of the Work.
 - 2. Work Schedule
 - 3. Work Restrictions.
 - 4. Contract Modification Procedures.
 - 5. Payment Procedures.
 - 6. Project Management and Coordination.
 - 7. Submittal Procedures.
 - 8. Quality Requirements.
 - 9. References.
 - 10. Temporary Facilities and Controls.
 - 11. Product Requirements.
 - 12. Execution Requirements.
 - 13. Closeout Procedures.

1.3 SUMMARY OF THE WORK

- A. Summary of the Work:
 - 1. Section 16040 : Communications Site and Service
 - a. Provide the services necessary to furnish and install new, in accordance with the drawings and specifications, all product required to support the underground communications conduits to acceptable industry standards.
- B. Ordinances and Fees:
 - 1. All work shall be executed and inspected in accordance with the rules and regulations of the State and/or local authorities governing the installation of the work involved.
 - 2. The General Building Permit and all other required permits, inspections, certificates, etc., shall be secured and paid for by the Contractor.
 - 3. The State of Michigan, Department of Labor and Economic Growth, Office of Fire Safety will review Drawings and Specifications and conduct inspections for fire safety. The Architect will submit Drawings and Specifications for such Electrical permits and for fire safety and pay plan review fees, the Contractor shall pay all permit fees.
 - 4. The Owner shall file Notice of Commencement and all other related documents as required by the Michigan Construction Lien Act No. 497 as amended.

1.4 WORK SCHEDULE

A. Coordinate with the owner the installation schedule and determine a cutover schedule.

1.5 WORK RESTRICTIONS

- A. Use of Premises: Limit the use of the premises to work in areas indicated. Do not disturb portions of the site beyond areas in which the Work is indicated. Allow for Owner occupancy and use by the public
 - 1. Confine operations to areas within Contract limits indicated. Portions of the site beyond areas in which construction operations are indicated are not to be disturbed.
- B. Use of Existing Building: Maintain the existing building in a weather-tight and secure condition throughout the construction period. Repair damage caused by construction operations. Take all precautions necessary to protect the building and its occupants during the construction period.
 - 1. The Contractor and each Subcontractor will be expected to have visited the site and appraise the existing situation and circumstances of operation.
 - 2. Consult with the Owner as to the availability of space for storage of materials and places of access to the work, etc. Materials and equipment must be placed to avoid interferences with the Owner's operations and shall be moved when so required.
 - 3. Comply with the Owner's requirements with regard to entrance, movement within and exit of all trucks, equipment, and personnel.
 - 4. The Owner reserves the right to perform construction work similar in nature to the work included under this Contract, in the same area concurrently with the Contractor, with his own forces, or with other Contractors, without conflict of any nature.
- C. Full Owner Occupancy: The Owner will occupy the site and existing building during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner operations.
- D. Owner's Right to Place Equipment: The Owner reserves the right to occupy and to place and install equipment in completed areas of the building, prior to Substantial Completion, provided that such occupancy does not interfere with completion of the Work. Such placing of equipment and partial occupancy shall not constitute acceptance of the total Work.
- E. Owner-Furnished Equipment: The Owner will provide equipment as indicated. The Work includes providing support systems to receive Owner's equipment, and mechanical and electrical connections.
 - 1. The Owner will arrange and pay for delivery of Owner-furnished items in accordance with the Contractor's Construction Schedule, and will inspect deliveries for damage.
 - 2. If Owner-furnished items are damaged, defective or missing, the Owner will arrange for replacement. The Owner will also arrange for manufacturer's field services.
 - 3. The Contractor is responsible for designating the delivery dates of Owner-furnished items in the Contractor's Construction Schedule and for receiving, unloading and handling Owner-furnished items at the site. The Contractor is responsible for protecting Owner-furnished items from damage, including damage from exposure to the elements, and to repair or replace items damaged as a result of his operations.
- F. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.

- 1. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Owner will remove hazardous materials under a separate contract.
- G. Utility Tie-Ins for Data, RF, PA or Telephone: All utility connections, disconnections, tie-ins, shut-downs, and similar work to existing services which would interfere with Owner's operations, must be performed on premium or overtime (Owner's non-standard work hours) basis with all costs included in the proposal lump sum price. All required connections, disconnections, tie-ins and shut-downs of system shall be scheduled in advance, prearranged and approved by the Owner's Representative.
- H. No welding, flame cutting or other operations involving the use of flame, arcs or sparking devices will be allowed, unless prior approval is obtained from the Owner's Representative and all precautions are taken, including temporary fire resistant barriers and stand-by fire extinguishers.
- I. Damage to Other Work: The Contractor shall repair, replace, or touch-up all finished surfaces in the existing building which may be damaged as a result of his work or operations.
- J. Utilities or other services encountered or otherwise found shall be protected from any damage, unless or until they are abandoned. If the utilities or services are not abandoned, immediately repair any damage from work and operations of this Contract. Immediately repair any damage from the Work or operations and restore the utilities and services to an equal or better condition than that which existing prior to the damage or disruption.
- K. Enforce strict discipline and good order among the Contractor's employees and subcontractor's.
 - 1. Foul or abusive language or demeanor will not be tolerated.
 - 2. Contractor's employees and subcontractor's shall dress in a neat workmanlike manner.
- L. Smoking is prohibited anywhere.
- M. Possession, sale or consumption of alcoholic beverages on Owner's property is strictly prohibited.
- N. The manufacturing, distribution, dispensing, possession or use of unlawful drugs on Owner's property is strictly prohibited and may result in criminal prosecution.

1.6 CONTRACT MODIFICATION PROCEDURES

- A. Bulletins: After award of Contract, the Contractor as required shall quote changes in the work described in Bulletins or otherwise.
- B. Except as otherwise specifically mentioned, the general character of the work covered by these Bulletins shall be the same as originally specified for the project and all incidental items required in connection with the work hereinafter described shall be included even though not specifically mentioned. Where an item is mentioned with no additional specifications given, reference is to be made to the original specifications. All applicable parts of the original specifications shall apply.
- C. Submit detailed itemized quotations for each item of work described, stating fully the amounts for additions and deductions.

D. Following are sample guidelines for use in preparing detailed cost breakdown for each item in the Bulletin being quoted:

1.	Material Cost: List material giving unit cost x number of units = cost Add sales tax if applicable Add applicable shipping costs	
	Subtotal Material Cost	\$
2.	Labor Cost - List for each trade the: Hourly rate x number of hours = Labor cost	
	Add Labor Fringes as applicable:F.I.C.A.M.E.S.C.Pension ContributionVacation ContributionH.E.W. Insurance	
	Subtotal Labor Cost	\$
3.	Equipment (heavy, i.e. cranes, earth moving, hoists, etc.): Rental Charge or equivalent per day or week (including operating costs except labor)	
	Subtotal Equipment Cost	\$
4.	Overhead & Profit	
	a. Work performed by prime contractor 15% overhead and profit.	
	b. On work performed by subcontractor, The prime contractor is allowed 7-1/2% handling charge unless otherwise stated in Contract Documents.	
	c. Work performed by subcontractor 15% overhead and profit	
	Subtotal Overhead & Profit	\$
	TOTAL COST ITEM	\$

E. Quotations should be received by the Architect within two (2) weeks of issuance of the Bulletin.

1.7 PAYMENT PROCEDURES

- A. Schedule of Values: Submit a separate Schedule of Values for each building fourteen (14) days after award of Contract. Submit the Schedule of Values, as a preliminary Application for Payment, to the Architect at least 7 days before submittal of the initial Application for Payment.
 - 1. Format and Content: Use AIA Documents G702 and G703. Use the Project Manual Table of Contents as a guide to establish the format for the Schedule of Values.
 - a. Provide a breakdown of the Contract Sum in sufficient detail to facilitate continued evaluation of Applications for Payment and progress reports. Break principal subcontract amounts down into several line items.
 - b. Round amounts off to the nearest whole dollar; the total shall equal the Contract Sum.
 - c. Where an Application for Payment may include materials or equipment, purchased or fabricated and stored, but not yet installed, provide separate line items on the Schedule of Values for initial cost of the materials, for each subsequent stage of completion, and for total installed value of that part of the Work.
 - d. Margins of Cost: Show line items for indirect costs, and margins on actual costs, only to the extent that such items will be listed individually in Applications for Payment. Each item in the Schedule of Values and Applications for Payment shall be complete including its total cost and proportionate share of general overhead and profit margin.
 - At the Contractor's option, temporary facilities and other major cost items that are not direct cost of actual work-in-place may be shown as separate line items in the Schedule of Values or distributed as general overhead expense.
- B. Each Application for Payment shall be consistent with previous applications and payments as certified by the Architect and paid for by the Owner.
 - 1. The Application for Payment at time of Substantial Completion and the final Application for Payment involve additional requirements.
- C. Payment Application Times: The date for each progress payment is the 15th day of each month. The period of construction Work covered by each Application for Payment is the period ending 15 days prior to the date for each progress payment and starting the day following the end of the preceding period.
- D. Payment Application Forms: Use AIA Document G 702 and Continuation Sheets G 703 as the form for Application for Payment.
- E. Application Preparation: Complete every entry on the form, including notarization and execution by person authorized to sign legal documents on behalf of the Contractor. Incomplete applications will be returned without action.
 - 1. Include amounts of Change Orders and Construction Change Directives issued prior to the last day of the construction period covered by the application.
- F. Transmittal: Submit 3 executed copies of each Application for Payment to the Architect. One copy shall be complete, including waivers of lien and similar attachments, when required.

- 1. Transmit each copy with a transmittal form listing attachments, and recording appropriate information related to the application in a manner acceptable to the Architect.
- G. Waivers of Mechanics Lien: With each Application for Payment, submit waivers of mechanics lien from every entity who may lawfully be entitled to file a mechanics lien arising out of the Contract, and related to the Work covered by the payment.
 - 1. Submit partial waivers on each item for amount requested, before deduction for retainage, on each item.
 - 2. Where an application shows completion of an item, submit final or full waivers.
 - 3. Owner reserves the right to designate which entities involved in the Work must submit waivers.
- H. Application for Payment at Substantial Completion: Actions and submittals that shall proceed or coincide with this application include:

Occupancy permits and similar approvals. Warranties (guarantees) and maintenance agreements. Test/adjust reports. Maintenance instructions. Start-up performance reports. Change-over information related to Owner's occupancy, use, operation and maintenance. Final cleaning. Application for reduction of retainage, and consent of surety. Punch list of incomplete Work, recognized as exceptions to Architect's Certificate of Substantial Completion.

I. Final Payment Application: Actions and submittals that shall precede or coincide with this application include:

Completion of Project closeout requirements. Completion of items specified for completion after Substantial Completion. Transmittal of required Project construction records to Owner. Proof that taxes, fees and similar obligations have been paid. Removal of temporary facilities and services. Removal of surplus materials, rubbish and similar elements.

1.8 PROJECT MANAGEMENT AND COORDINATION

- A. Coordination: Coordinate construction operations included in various Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections that depend on each other for proper installation, connection and operation.
- B. Pre-Construction Conference:
 - 1. Architect will schedule a pre-construction conference at the Project site after execution of the Agreement and prior to commencement of construction to review responsibilities and personnel assignments.
 - 2. Attendees: The Owner, Architect, the Contractor and its superintendent, major subcontractors, manufacturers, suppliers and other concerned parties shall each be represented at the conference.

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3. Agenda: Discuss items of significance that could affect progress including such topics as:

Tentative construction schedule. Critical Work sequencing. Designation of responsible personnel. Procedures for processing field decisions and Change Orders. Procedures for processing Applications for Payment. Distribution of Contract Documents. Submittal of Shop Drawings, Product Data and Samples. Preparation of record documents. Use of the premises. Office, Work and storage areas. Equipment deliveries and priorities. Safety procedures. First aid. Security. Housekeeping. Working hours.

- C. Coordination Meetings:
 - 1. Conduct Project coordination meetings at regularly scheduled times convenient for all parties involved. Project coordination meetings are in addition to regular progress meetings and special pre-installation meetings.
 - a. Request representation at each meeting by every party currently involved in coordination or planning for the construction activities involved.
 - 2. Record meeting results and distribute copies to everyone in attendance and to others affected by decisions or actions resulting from each meeting.
- D. Progress Meeting:
 - 1. Progress meetings, with the representatives of the various trades and the Contractor in attendance, will be held by the Architect and Owner at regular intervals as directed. The Minutes of these meetings will be recorded by the Architect and copies sent to all interested parties. The dates of progress will be coordinated with preparation of payment request.
 - 2. Agenda: Review and correct or approve minutes of the previous progress meeting. Include topics for discussion as appropriate to the current status of the Project.
 - a. Contractor's Construction Schedule: Review progress since the last meeting. Determine where each activity is in relation to the Contractor's Construction Schedule, whether on time or ahead or behind schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
 - b. Review including such items as:

Interface requirements. Time. Updated schedule. Past two (2) week completed tasks.

> GENERAL REQUIREMENTS 01000-7

> Past two (2) week incompleted tasks. Two (2) week look ahead list of tasks to occur in the next two (2) weeks. Sequences. Deliveries. Off-site fabrication problems. Access. Site utilization. Temporary facilities and services. Hours of Work. Hazards and risks. Housekeeping. Quality and Work standards. Change Orders. Documentation of information for payment requests.

1.9 CONSTRUCTION PROGRESS DOCUMENTATION

- A. Construction Schedule: Submit a comprehensive, fully developed, horizontal bar chart, construction schedule.
 - 1. Submit schedule within two (2) weeks after award of Contract. Base schedule on the Times of Completion specified for the Project.
 - 2. Update construction schedule monthly after construction progress meetings, to reflect actual construction progress and activities.
 - 3. Indicate each significant construction activity separately.
 - 4. Time Frame: Extend schedule from date established for commencement of the Work to date of final completion.
 - 5. Activities: Treat each story or separate area as a separate activity for each principal element of the Work. Comply with the following:
 - a. Procurement Activities: Include procurement activities for long lead items. Procurement activities include, but are not limited to, submittals, approvals, purchasing, fabrication and delivery.
 - b. Start-Up and Testing Time: Include time for start-up and testing.
 - c. Substantial Completion: Indicate completion in advance of date of substantial completion, allow two (2) weeks time for Architect's inspection and punch list.
 - 6. Constraints: Include constraints and work restrictions.
 - a. Phasing: Arrange list of activities on schedule by phase.
 - b. Work by Owner: Indicate a separate activity for each portion of Work performed by Owner.
 - c. Work Restrictions: Show effect on the schedule of limitations of continued occupancies, uninterruptible services, use of premises restrictions, and provisions for future construction.
 - d. Work Stages: Indicate important stages of construction for each major portion of the Work.
 - 7. Milestones: Include milestones such as Notice to Proceed, Substantial Completion and Final Completion.

B. Daily Construction Reports: Prepare a daily construction report, recording the following information concerning events at the site; and submit duplicate copies to the Architect at weekly intervals:

List of subcontractors at the site. Approximate count of personnel at the site. Accidents and unusual events. Meetings and significant decisions. Stoppages, delays, shortages, losses. Emergency procedures. Orders and requests of governing authorities. Change Orders received, implemented. Services connected, disconnected. Equipment or system tests and start-ups. Partial Completions, occupancies. Substantial Completions authorized.

1.10 SUBMITTAL PROCEDURES (01330)

- A. Shop Drawings, Product Data and Samples: Submit Shop Drawings, Product Data and Samples to the Architect for review. Architect will provide to the Contractor the submittal forms that Must be filled out and accompany each submittal.
 - 1. Coordinate the preparation and processing of submittals with the performance of the work. Coordinate each separate submittal with other submittals and related activities such as testing, purchasing, fabrication, delivery and similar activities and require sequential activity.
 - a. Coordinate the submittal of different units of interrelated work so that one submittal will not be delayed by the Architect's need to review a related submittal. The Architect reserves the right to withhold action on any submittal requiring coordination with other submittals until related submittals are forthcoming.
 - 2. Allow sufficient time so that the installation will not be delayed as a result of the time required to properly process submittals, including time for resubmittal, if necessary.
 - a. Allow ten (10) working days for the Architect's review of each submittal. Allow a longer time period where processing must be delayed for coordination with subsequent submittals. The Architect will advise the Contractor promptly when it is determined that a submittal being processed must be delayed for coordination.
 - b. No extension of time will be authorized because of the Contractor's failure to transmit submittals to the Architect/Engineer sufficiently in advance of the work.
 - 3. The Contractor shall review Shop Drawings, product Data and Samples prior to submission. Notify the Architect in writing of any deviations in the submittals from requirements of the Contract Documents.
 - a. Information required on shop drawings includes, dimensions, identification of specific products and materials which are included in the work, compliance with specified standards and notations of coordination requirements with other work. Provide special notation of dimensions that have been established by field measurement. Highlight, encircle or otherwise indicate deviations from the contract documents on the shop drawings.

- b. Submit samples for the Architect's visual review of general generic kind, color, pattern, and texture, and for a final check of the coordination of these characteristics with other related elements of the work. Samples are also submitted for quality control comparison of these characteristics between the final sample submittal and the actual work as it is delivered and installed.
- 4. Architect's acceptance shall not relieve the Contractor from responsibility for errors in submittals.
- 5. Do not use Shop Drawings, Product Data or Samples without an appropriate stamp indicating Architect/Engineer's action taken.
- 6. Submit the following:
 - a. Shop Drawings: One reproducible sepia print and two blue or black line prints.
 - b. Product Data: Submit three (3) copies.
 - c. Samples: Submit three (3) sets of samples.
- 7. Fire Performance Affidavits: Submit in triplicate, notarized affidavits for the products required as specified in the various technical sections of the specifications. Affidavit shall be signed and notarized, and in the following format:

AFFIDAVIT

This is to certify that, <u>(Name of Product)</u> which was or will be furnished to <u>(Company making Application of Product)</u> for <u>(Job or Project Name and Address)</u> is the same in all respects in content, and specifications for mixing and/or application as the specimen tested by <u>(Name of Laboratory)</u> or their project or test number <u>(Test Number)</u> dated <u>(Date of Test)</u>.

Flame Spread	
Fuel Contributed	
Smoke Developed	

1.11 QUALITY REQUIREMENTS (01400)

A. The Owner may employ the services of a testing agency. This will be for the Owner's purpose. Any information or assistance furnished by this agency will not relieve the Contractor of his responsibility for the work and the removal and replacement of any faulty work done which is not in accordance with plans and specifications without additional cost to the Owner.

1.12 **REFERENCES (01420)**

- A. Specifications & Drawings To be Cooperative:
 - 1. These Specifications and accompanying Drawings are intended to describe and provide for finished work. They are intended to be cooperative and what is called for by either shall be as binding as if called for by both. The Drawings accompanying the Specifications are intended to show the general design and arrangement of the installation and in some cases are more or less diagrammatic. They are not intended to serve as shop drawings nor are they to be scaled for dimensions or exact locations of equipment.
 - 2. It is the intent of the Drawings and Specifications to provide for a complete and satisfactory installation. The Contractor shall furnish Labor and/or materials neither shown nor specified but obviously necessary for the completion of the proper functioning of the systems.

B. Specification Format and Content Explanation:

- 1. Specification Format: These Specifications are organized into Divisions and Sections based on the Construction Specifications Institute's 16-Division format and MASTER FORMAT numbering system.
- 2. Words, which have well known technical or construction industry meanings are used in the Contract Documents in accordance with such, recognized meanings.
- 3. Abbreviated Language: In the interest of brevity, the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an" but the fact that a modifier or an article is absent from a statement and appears in another is not intended to affect the interpretation of either statement.
- 4. Trades: Use of titles such as "carpentry" is not intended to imply that certain construction activities must be performed by accredited or unionized individuals of a corresponding generic name, such as "carpenter." It also does not imply that requirements specified apply exclusively to tradespersons of the corresponding generic name.
- C. Definitions:
 - 1. Indicated: Refers to graphic representations, notes or schedules on the Drawings, or other Paragraphs or Schedules in Specifications, and similar requirements in Contract Documents. Where terms such as "shown", "noted", "scheduled", and "specified" are used, it is to help locate the reference; no limitation on location is intended except as specifically noted.
 - 2. Directed: Terms such as "directed", "requested", "authorized", "selected", "approved", "required", and "permitted" mean "directed by the Architect", "requested by the Architect", and similar phrases. However, no implied meaning shall be interpreted to extend the Architect's responsibility into the Contractor's area of construction supervision.
 - 3. Approve: The term "approved", where used in conjunction with the Architect's action on the contractor's applications and requests, is limited to the duties and responsibilities of the Architect as stated in General and Supplementary Conditions. Such approval shall not release the Contractor from responsibility to fulfill Contract requirements unless otherwise provided in the Contract Documents.
 - 4. Regulation: The term "Regulations" includes laws, ordinances, statutes, and lawful orders issued by authorities having jurisdiction, as well as rules, conventions, and agreements within the construction industry that control performance of the Work, whether lawfully imposed by authorities having jurisdiction or not.
 - 5. Furnish: The term "furnish" is used to mean "supply and deliver to the Project site, ready for unloading, unpacking, assembly, installation, and similar operations."
 - 6. Install: The term "install" is used to describe operations at project site including the actual "unloading, unpacking, assembly, erection, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations."
 - 7. Provide: The term "provide" means "to furnish and install, complete and ready for the intended use."
 - 8. Installer: An "Installer" is the Contractor engaged by the Contractor, either as an employee, subcontractor, or sub-subcontractor for performance of a particular construction activity, including installation, erection, application, and similar operations. Installers are required to be experienced in the operations they are engaged to perform.
 - 9. Project Site: Is the space available to the Contractor for performance of construction activities, either exclusively or in conjunction with others performing other construction activities as part of the Project. The extent of the Project Site is shown on the Drawings and may or may not be identical with the description of the land upon which the Project is to be built.

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- 10. Testing Laboratories: A "testing laboratory" is an independent entity engaged to perform specific inspections or tests, either at the Project Site or elsewhere, and to report on and, if required, to interpret results of those inspections or tests.
- D. Standards of Industry: Reference to standards, codes, and recommendations shall be the latest edition of such publications adopted and published at date of bids. Work shall be installed according to the following industry standards when applicable:
 - 1. UL Underwriter's Laboratories, Inc.
 - 2. ASA American Standard Association
 - 3. ASHRAE American Society of Heating, Refrigeration and Air Conditioning Engineers
 - 4. ASME American Society of Mechanical Engineers
 - 5. ASTM American Society for Testing and Materials
 - 6. ANSI American National Standards Institute
 - 7. BICSI Building Industry Consulting Service International
 - 8. EIA Electronics Industries Association
 - 9. FCC Federal Communications Commission
 - 10. ICEA Insulated Cable Engineers Association
 - 11. IEEE Institute of Electrical and Electronics Engineers
 - 12. ISO International Organization for Standardization
 - 13. NEC National Electrical Code
 - 14. NEMA National Electrical Manufacturer's Association
 - 15. NFPA National Fire Protection Association.
 - 16. TIA Telecommunications Industry Association
 - 17. Any local state or national plumbing and building codes having jurisdiction.

1.13 TEMPORARY FACILITIES AND CONTROLS (01500)

- A. Temporary Water, Power and Lighting:
 - 1. The Owner will furnish at no cost to the Contractor water and electricity for construction purposes. All such water and electricity shall be obtained from existing outlets designated by the Owner's Representative. If the Contractor's requirements exceed the characteristics at the designated outlets, the Contractor shall provide and pay for additional facilities as he may require.
 - a. Water shall not be taken from Fire Protection System.
- B. Temporary Toilets:
 - 1. The Owner's will allow the use of designated toilet facilities for use by all workers employed on the project. Keep the facilities clean and in sanitary condition at all times.
- C. Temporary Field Office:
 - 1. The Owner will make space available for the Contractor's temporary field office Provide telephone service and all furniture and supplies as required for the temporary field office.
- D. Temporary Parking: Park in designated spaces only.
 - 1. Do not park vehicles on sidewalks or lawn areas surrounding the building unless written approval is received from the Owner.

- 2. Loading and unloading shall be done only at the loading dock. Coordinate use of loading dock with Owner.
 - a. No vehicles shall be left unattended for more than 30 minutes and no vehicle will be permitted to be left in the loading dock overnight.
- E. Temporary Storage: Storage space within the building is limited. Each trade shall arrange for storage sheds and/or trailers on site for storage of materials, equipment, supplies and tools as required. The Owner accepts no responsibility for security of such storage sheds or trailers.
 - 1. Storage of materials will not be allowed on roofs.
- F. Temporary Lifts and Hoists: Provide facilities for hoisting materials and employees. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.
- G. Contractor Employee Identification: All persons working on-site are required to have and wear an identification badge at all times.
- H. Project Identification and Temporary Signs:
 - 1. No advertising, contractor's sign or project sign will be permitted on the site.
- I. Waste Material Removal and Cleaning: Remove and properly dispose of, on a daily basis all waste materials and debris resulting from the Work. The Project and adjacent grounds shall be kept free of accumulations of rubbish.
 - 1. Construction debris shall not be stored overnight, nor shall it be left in common corridors. Keep debris confined to work areas only until such time as it is being removed.
 - 2. No burning of waste materials will be permitted on the premises.
 - 3. In addition to the general "broom cleaning" stipulated in the General Conditions, the Contractor shall be responsible for the following special cleaning for all trades just prior to the final completion of the Project.
 - a. Remove sealant and paint from all glass and polish same.
 - b. Clean and polish all finish hardware.
 - c. Remove all spots, soil and paint from all walls.
- J. Use of Owner's Cafeteria: Contractor will not be allowed the use of Owner's cafeteria.

1.14 PRODUCT REQUIREMENTS (01600)

- A. Product Substitutions: Contractor's request for substitution will be received and considered when extensive revisions to the Contract Documents are not required, when the proposed changes are in keeping with the general intent of the contract documents, when the request are timely, fully documented and properly submitted, and when one or more of the following conditions is satisfied, all as judged by the Architect; otherwise the request will be returned without action except to record non-compliance with these requirements.
- B. The Architect will consider a request for substitution for the following reasons only:
 - 1. Where the request is directly related to an "or equal" clause in the contract documents.

- 2. Where the specified product cannot be provided within the Contract Time. However, the request will not be considered if the product cannot be provided as a result of the Contractor's failure to pursue the work promptly or to coordinate the various activities properly.
- 3. Where the specified product cannot receive necessary approval by a governing authority, and the requested substitution can be approved.
- 4. Where a substantial advantage is offered the Owner, in terms of cost, time, energy conservation or other considerations of merit, after deducting offsetting responsibilities the Owner may be required to bear. These additional responsibilities may include such considerations as additional compensation to the Architect for redesign and evaluation services, the increased cost of other work by the Owner or separate contractors, and similar considerations.
- 5. When the specified product cannot be provided in a manner which is compatible with other materials of the work, and where the Contractor certifies that the substitution will overcome the incompatibility.
- 6. When the specified product cannot be properly coordinated with other materials in the work, and where the Contractor certifies that the proposed substitution can be properly coordinated.
- 7. When the specified product cannot receive a warranty as required by the contract documents and where the contractor certifies that the proposed substitution receive the required warranty.
- C. Substitution Requests:
 - 1. Requests for Substitutions: Do <u>not</u> submit substitution request as a shop drawing submittal. Submit a separate request for each request for substitution. In each request identify the product to be replaced by the substitution, include related specification section and drawing numbers, and complete documentation showing compliance with the requirements for substitutions. Include the following information, as appropriate, with each request:
 - a. Provide complete product data, drawings and descriptions of products, and fabrication and installation procedures.
 - b. Provide samples if requested.
 - c. Provide a detailed comparison of the significant qualities of the proposed substitution with those of the work originally specified. Significant qualities include elements such as size, weight, durability, performance and visual effect.
 - d. Provide complete coordination information. Include all changes required in other elements of the work to accommodate the substitution.
 - e. Provide a statement indicating the effect the substitution will have on the work schedule in comparison to the schedule without approval of the proposed substitution. Include information regarding the effect of the proposed substitution on the Contract Time.
 - f. Provide complete cost information, including a proposal of the net change in the Contract Sum.
 - g. Include in this certification, the Contractor's waiver of rights to additional payment or time, which may subsequently be necessary because of the failure of the substitution to perform adequately.

- D. Sample Substitution Request Form:
 - 1. The following is a Sample Substitution Request Form, which must be completed and submitted with any request for substitutions.

SAMPLE SUBSTITUTION REQUEST FORM

Re: Project Name and Architects Project Number

1) SPECIFICATION REFERENCE

Indicate specific pages and paragraphs of the Specifications for which a substitution is proposed.

2) PRODUCT TO BE SUBSTITUTED

Indicate specific product name, model number and manufacturer for proposed substitution.

3) REASON FOR SUBSTITUTION

Provide reason for proposed substitution and reason why specified product is not considered.

4) COMPARISON OF SPECIFIED PRODUCT AND SUBSTITUTION

Provide detailed comparison of specified product with proposed substitution.

5) COST INFORMATION

Indicate what effect (add, deduct, no change) the proposed substitution has on Project cost.

6) EFFECT ON CONSTRUCTION SCHEDULE

Indicate what effect the proposed substitution has on the construction schedule.

7) LICENSE FEES OR ROYALTIES

Indicate if there are license or royalties.

8) AVAILABILITY OF MAINTENANCE SERVICE/SOURCE OF REPLACEMENT MATERIALS

> Indicate availability of maintenance service and source of replacement parts or material for proposed substitution.

1.15 EXECUTION REQUIREMENT (01700)

A. Establish benchmarks and markers to set lines and levels as needed to properly locate each element of the Work. Calculate and measure required dimensions within indicated or recognized tolerances. Do not scale Drawings to determine dimensions.

1.16 CUTTING AND PATCHING (01731)

- A. Cutting of holes and openings through existing slabs, walls, ceilings, partitions, etc., of existing building required for the installation of new piping conduits, ducts, etc., (including patching and repairing) shall be performed by the trade requiring such openings without additional cost to the Owner.
- B. The cutting of holes through the existing building construction shall only be done by the use of abrasive saw and rotary coring machines. The use of hammer and drill points will not be permitted. The openings shall not be cut larger than necessary for the installation of the work. Where existing piping, etc., is removed, the unused openings shall be grouted in.
- C. The drilling or punching of structural members, such as holes through beams or column, shall not be done without the specific permission of the Architect.
- D. Do not cut and patch work exposed in the building's exterior or in its occupied spaces in a manner that would, in the Architect's opinion, result in lessening the building's aesthetic qualities. Do not cut and patch in a manner that would result in substantial visual evidence of cut and patch work. Remove and replace work judged by Architect to be cut and patched in a visually unsatisfactory manner.
- E. Restore exposed finishes of patched areas and extend finish restoration into retained adjacent construction in a manner that will eliminate evidence of patching and refinishing.
- F. Where removal of walls extends one finished area into another, patch and repair floor, wall and ceiling surfaces, to provide an even surface of uniform color and appearance.
- G. Where patching occurs in a painted surface, extend final paint coat over entire unbroken surface containing the patch.

1.17 CLOSEOUT PROCEDURES (01770)

- A. At time of substantial completion, submit record drawings, maintenance manuals and warranties.
- B. Record Drawings: Maintain a clean, undamaged set of blue line prints of Contract Drawings. Mark the set to show the actual installation where the installation varies with the Work as originally shown. Give particular attention to concealed elements that would be difficult to locate at a later date. Mark record sets with red erasable pencil. Transfer all marks from bluelines into electronic format and provide Owner record drawings in AutoCAD LT2002 version and two (2) blacklines of the final record drawings.
- C. Record Shop Drawings and Product Data: Maintain one copy of shop drawings and product data. Mark these documents to show variations in actual Work performed from work shown on the Contract Documents.

- D. Maintenance Manuals: Organize operating and maintenance data into suitable sets of manageable size. Bind properly indexed data in heavy-duty, 2-inch, 3-ring loose-leaf binders with pocket folders for folded sheet information. Include the following types of information:
 - 1. Emergency instructions.
 - 2. Spare parts list.
 - 3. Copies of warranties.
 - 4. Inspection procedures.
 - 5. Shop drawings and product data.
- E. Guarantee: Furnish the Owner with a written guarantee to remedy any defects due to faulty materials or workmanship, which appear in the work within one year from date of final acceptance by the Owner.
 - 1. Provide written guarantees from prime subcontractors.
- F. Submit written warranties to Architect to coincide with date of substantial completion.
 - 1. Bind warranties and bonds in heavy-duty, commercial quality, durable, 3-ring loose-leaf binder.
 - a. Provide dividers with celluloid tabs for each separate warranty.
 - b. Provide types description of product or installation including name of product, name, address and telephone number of the installer.

END OF SECTION 01000

SECTION 16040 - COMMUNICATIONS SITE AND SERVICE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to work of this Section.

1.2 SUMMARY

- A. Communications Service: Work required for the communications service installation shall include the following:
 - 1. The utility companies and utility contact personnel for this project are as follows:
 - a. AT&T:
 - b. Comcast:
 - 2. Provide pull wires in all empty ducts.
 - 3. Telephone Service and Cable TV Service:
 - a. Provide a complete underground empty conduit system from the property line to the communications service areas. Provide pull wires in all conduits.

PART 2 - PRODUCTS

2.1 DIRECT BURIAL CONDUIT

- A. Plastic Conduit: rigid heavy wall PVC utility duct per NEMA Standard TC=6&8 DB120 ASTM F-512, suitable for direct burial applications, standard lengths with tapered ends and matching solvent-weld type couplings.
 - 1. Manufacturer: Provide products of one of the following:
 - a. Cantex
 - b. Carlon
 - c. JM Manufacturing
 - d. National Pipe & Plastics, Inc.

2.2 COMMUNICATIONS HANDHOLE

- A. Provide and install all materials, labor and equipment necessary for the complete installation of a quazite communications handhole. Handhole shall be nominal 24" W x 36" D x 24" H.
 - 1. Manufacturer: Provide products of the following:
 - a. PD/LD style Hubbell QUAZITE® 3621 Industrial Park Drive Lenoir City, TN 37771

PART 3 - EXECUTION

3.1 DIRECT BURIAL CONDUIT

- A. All underground conduits shall be 42 inches below grade minimum as measured to the top of the conduit for direct burial conduits.
- B. Clear and final grade bottom of trench not less than 3 inches below the level at which conduit is to be installed. Make conduit joints watertight.
- C. Where it is necessary to cut a tapered end of duct, make cut with a tool or lathe designed to cut a taper to match the taper of the particular duct used. Provide end bells where ducts enter manholes and handholes.
- D. Use rigid steel conduit in lieu of conduit specified for direct burial at communications riser. Provide conduit adapters for connection of conduit of different materials. For risers, use bends having a minimum radius of 48 inches for three inch and larger conduit.
- E. Plug ends of conduit during and after construction to prevent water, mud and debris from entering conduit. After a run has been completed, pull a brush with stiff bristles through each conduit to make certain that no particles of earth, sand or gravel have been left in the conduit.
- F. Provide a continuous marker tape indicating buried communications line 18" above all underground conduits.
- G. Fill the remainder of the trench, and carefully tamp, with materials and compaction methods to suit project conditions.

3.2 UNDERGROUND CONSTRUCTION

- A. All conduit will be 4-inch schedule 40 (i.e., PVC or BSP/GSP, HDPE, manufactured split PVC or split BSP/GSP).
- B. Contractor is responsible for locating all utilities 48 hours prior to construction activity.
- C. All underground obstructions, when located, will require the placement of a marker.
- D. All buried conduit will be placed at 42inches minimum cover unless specified otherwise on the construction drawings.
- E. All 90 degree bends in conduit construction will be a minimum 38.2 inches radius unless specified otherwise on the construction drawings.
- F. All split conduit bends and solid PVC bends shall require concrete encasement, unless specified otherwise on the construction drawings.
- G. All conduit entrances into building and HDPE laterals at poles will be plugged.
- H. Utility locations will be verified at least 100 feet in advance of trenching or plowing, so that changes in cable placement can be made in event of conflicts.

- I. All buried obstructions are the responsibility of the contractor to locate, protect, and repair if damaged.
- J. Any and all improvements, such as, asphalt or concrete pavement, curbs, gutters, walks, drainage ditches, embankments, shrubs, trees, grass sod, etc., it damaged shall be restored to original or better condition.
- K. Caution will be used when working in manholes, air exchange requirements and OSHA regulations will be followed.

END OF SECTION 16040

TROY SCHOOL DISTRICT Bid 9415 New Baker Underground Communications

I.S. Fiber		Turn-Key Network	Western	
Services, Inc.		Solutions, Inc.	Tel-Com, Inc.	
Base Bid	4,500.00	10,040.00	13,151.00	