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engineers
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To: Prospective Bidders
From: Wold Architects and Engineers
Date: May 2, 2012
Comm. No: 094020 / 094022 / 094034

Subject: Addendum No. 1 for Bidding Documents for the: Redford Union High School,
Stuckey Center, MacGowan Elementary
Improvement Projects – 2012 Work
Redford, Michigan 48240

BIDS DUE MAY 8, 2012 AT 3:00 P.M.

This addendum forms a part of the Contract Documents dated April 18, 2012. Acknowledge receipt of this Addendum on the space provided on the Bid Form. Failure to do so may result in disqualification of Bid.

This Addendum consists of three (3) typed sheets and attachments:

Project Manual: Specification Section 00 11 13, Specification Section 00 73 43, Specification Section 03 45 00, Specification Section 12 90 00, Specification Section 33 46 13.

PROJECT MANUAL

1. SPECIFICATION SECTION 00 11 13 ADVERTISEMENT FOR BIDS
 - A. Reissued this addendum.
2. SPECIFICATION SECTION 00 73 43 PREVAILING WAGES
 - A. Reissued this addendum (with Wage Rates attached).
3. SPECIFICATION SECTION 03 45 00 ARCHITECTURAL PRECAST CONCRETE.
 - A. Entire section issued this addendum.
4. SPECIFICATION SECTION 04 20 00 MASONRY.
 - A. At paragraph 1.02A, add the following item:
 - "3. Install architectural precast concrete caps at retaining wall (MacGowan Elementary School) as detailed on Drawings."
 - B. At paragraph 1.02B, add the following item: "2. Architectural Precast Concrete Cap – Section 03 45 00."
5. SPECIFICATION SECTION 05 50 00 – METAL FABRICATIONS
 - A. At section 2.02 MATERIALS, add paragraph "M." as follows:

"M. Stainless Steel Corner Guards: Standard Type 304, Size: 3" x 3" x 36" high. Install with countersunk stainless steel fasteners at 8" O.C., staggered each side. Set in full bed of sealant.
 - B. At section 2.02 MATERIALS, add paragraph "N." as follows:

"N. Skate Guards: 1/4" stainless steel bent plate, 4" long x 1/2" dia. stainless steel dowel.
 - C. At section 2.05 SCHEDULE OF MISCELLANEOUS METAL ITEMS, add items "8" and "9" as follows:

"8. Stainless steel corner guards at locations shown on Drawings."
"9. Stainless Steel Skate Guards at planter.
6. SPECIFICATION SECTION 08 71 00 FINISH HARDWARE
 - A. At paragraph 2.01E, revise "Cylinders: Schlage" to "Cylinders: Best".

7. SPECIFICATION SECTION 08 80 00 GLAZING
 - A. At paragraph 2.04, revise paragraph title to: "Acrylic Sheets for Guardrail Panels".
 - B. A paragraph 2.04, revise item "A." as follows:
"A. Acrylic Sheet Panels: ½" Plexiglas G Sheet, colorless sheet (clear)".
8. SPECIFICATION SECTION 12 90 00 BUILDING ACCESSORIES.
 - A. Entire section issued this addendum. Section includes "Entrance Mats (recessed)".
9. SPECIFICATION SECTION 33 46 13 PLANTER DRAINAGE.
 - A. Entire section issued this addendum.

DRAWINGS

1. DRAWING A1.11hs HIGH SCHOOL – MAIN LEVEL FLOOR PLAN, SCHEDULE, ELEVATIONS
 - A. At Floor Plan General Notes – Doors, delete notes "2." and "3."
 - B. At Frame Type "CW 7", revise dimension at head from "4"" to "2" high".
 - C. Door/Opening Schedule, revise height of Door A123 from "7'-0"" to "7'-2 (Field Verify)".
 - D. Door/Opening Schedule, add 20/45 minute rating to Doors A130A, A130B, A130C, A130D, A130E, and A130F.
 - E. Add the following Demolition General Note:
"1. Contractor to salvage and protect the existing wires associated with the existing door position switches (door contacts) to be removed with exterior door frame demolition.
 - F. At Drawing C5, delete demolition key note "1" at Door and Frame #A118. (Existing door and frame to remain).
 - G. At Door/Opening Schedule, delete Door A118.
 - H. At Frames Types, delete frame "FR 4".
2. DRAWING A1.12hs HIGH SCHOOL – UPPER LEVEL FLOOR PLAN, ELEVATIONS, SCHEDULE
 - A. At Floor Plan Key Notes, replace note "1.7" as follows:
"1.7 PROVIDE NEW ACRYLIC SHEET PANELS AT EXISTING GUARD RAILS."
3. DRAWING A1.13hs HIGH SCHOOL – ENLARGED FLOOR PLANS
 - A. At Drawing C1 – MAIN LEVEL DEMOLITION PLAN – BOY'S LOCKER ROOM, at Demolition Plan Key Note #8, add the following:
"For extents of VCT and Vinyl Base removal, reference the area of new VCT shown on Drawing D6/A1.14hs."
4. DRAWING A1.16hs HIGH SCHOOL – DETAIL OF CONSTRUCTION
 - A. At Drawing C3 - HEAD DETAIL, delete the note "Aluminum subframe by FRP door supplier. Finish to match curtainwall frame".
 - B. At Drawing E3 – JAMB DETAIL, delete the note "Aluminum subframe by FRP door supplier. Finish to match curtainwall frame".
 - C. At Drawing F3 – SECTION AT RAILING, revise note from "Glass Panel" to "Acrylic Sheet Panel".
 - D. At Drawing F6 – SECTION AT RAILING, revise note from "Glass Panel" to "Acrylic Sheet Panel".
 - E. At Drawing H3 - SECTION AT STAIR LANDING, revise the note "Metal infill panel welded to existing guard rails" to the following:
"Guardrail Infill Panel. Spot weld at "Perforated Guardrail Infill Panel" frame at all points intersecting the existing vertical guardrail posts. Spot weld together all panel frames that abut each other."
 - F. At Drawing H4 - SECTION AT STAIR TREAD, revise the note "Metal infill panel welded to existing guard rails" to the following:
"Guardrail Infill Panel. Spot weld at "Perforated Guardrail Infill Panel" frame at all points intersecting the existing vertical guardrail posts. Spot weld together all panel frames that abut each other."
5. DRAWING A1.11s STUCKEY CENTER SCHOOL IMPROVEMENTS
 - A. Add the following Demolition General Note:
"1. Contractor to salvage and protect the existing wires associated with the existing door position switches (door contacts) to be removed with exterior door frame demolition".



6. DRAWING A1.11m MACGOWAN ELEMENTARY SCHOOL – OVERALL PLAN, ELEVATIONS
 - A. At Drawing E6 – PLAN AT PLANTER, add a note as follows: "Provide three (3) separate rows of new drain tile throughout the existing planter base. Provide pea gravel around drain tile to a depth of 12", with filter fabric over top of the gravel".
 - B. At Demolition Plan Key Notes, replace note "4" with the following note:
"4. Remove the existing top course of brick (cap) as required for new architectural precast concrete cap."
 - C. Add the following Demolition General Note:
"1. Contractor to salvage and protect the existing wires associated with the existing door position switches (door contacts) to be removed with exterior door frame demolition".
7. DRAWING A1.12m MACGOWAN ELEMENTARY SCHOOL – DETAILS, SCHEDULE
 - A. At Drawing E6, revise name of Drawing from "PRECAST COPING ISO" to "SKATE GUARDS AT ARCHITECTURAL PRECAST CONCRETE CAP".

END OF ADDENDUM #1

SECTION 00 11 13

ADVERTISEMENT FOR BIDS

REDFORD UNION H.S.
17711 KINLOCH
REDFORD, MICHIGAN 48240

STUCKEY CENTER
26000 FARGO
REDFORD, MICHIGAN 48240

MacGOWAN ELEMENTARY
18255 KINLOCH
REDFORD, MICHIGAN 48240

IMPROVEMENT PROJECTS – 2012 WORK

Redford Union School District will receive single prime sealed bids for the Redford Union High School, Stuckey Center, and MacGowan Elementary Improvement Projects – 2012 Work until 3:00 p.m. local time on May 8, 2012 at the Administration Offices Conference Room, 19990 Beech Daly Road, Redford, Michigan 48240 at which time and place all bids will be publicly opened and read aloud. The Board of Education will not accept any bid(s) received after 3:00 p.m. on May 8, 2012.

Bidding documents, including the Proposal Form, Drawings and Specifications, will be on file at the Offices of the Architect, Wold Architects and Engineers, 202 East Third Street, Suite 200, Royal Oak, Michigan 48067, (248) 284-0611; at the following Plan Rooms: CAM, 43636 Woodward Avenue, Bloomfield Hills, MI 48302; MHC/Repro Max, 36060 Industrial Road, Detroit, Michigan 48150; and Reed Construction Reports electronic plan room at www.reedpr.com; bidding documents may be viewed online also from Plan Well at www.dunnblue.com by clicking on the PlanWell icon, then the Public Plan Room icon, select Redford Union High School Improvements Project.

This project includes: Improvements to Redford Union H.S., Stuckey Center, and MacGowan Elementary including: selective demolition, concrete work, masonry work, miscellaneous metals, new aluminum storefront entrances with FRP doors, glazing, finish hardware, gypsum board partitions, finishes of ceramic tile, carpet, VCT and paint, new marker boards and tack boards, new toilet partitions, and work at existing athletic lockers, including new boxed end panels.

Michigan ARC (formerly Dunn Blue Reprographic) 1009 West Maple Road, Clawson, MI 48017 (248) 288-5600, facsimile (248) 288-1198, will provide complete sets of the Bidding Documents to prospective bidders and subcontractors. The copies will be available about April 20, 2012. Both a deposit check in the amount of \$70.00 and a non-refundable check in the amount of \$30.00 made out to "Redford Union Schools" for each set ordered are required. The following information must accompany the deposit: Company name, mailing address, street address, phone and facsimile numbers and type of bidder (i.e. General, Mechanical or Electrical Subcontractor to General, or other). A refund of \$70.00 will be sent to prime contractors who submit a bid to the Owner and subcontractors for each set (including addenda) returned to Dunn Blue Reprographic in good condition within ten (10) calendar days of the award date, subject to the conditions of AIA Document A701. Refunds will not be given if the plans are returned to the Architect's Office.

Make proposals on the bid forms supplied in the Project Manual. No oral, telegraphic or telephonic proposals or modifications will be considered. Submit with each bid, a certified check or acceptable bidder's bond payable to Redford Union Schools in an amount equal to five percent (5%) of the total bid. The successful bidder will be required to furnish satisfactory Labor and Material Payment Bond, and Performance Bond.

All Bids shall be accompanied by a sworn and notarized statement disclosing any familial relationship that exists between the owner(s) or any employee of the bidder and any member of the Board of Education, the superintendent of the School District, or the Charter Township of Redford. The Board of Education and Board of Trustees will not accept a bid that does not include a sworn and notarized familial relationship disclosure statement. Bids may not be withdrawn within forty-five (45) days after the scheduled time of opening bids, without the consent of the Owner. The Owner reserves the right to accept any bid or to reject any or all bids, or parts of such bids, and waive informalities or irregularities in bidding.

A voluntary pre-bid meeting will be held on April 26, 2012, at 8:00 a.m. at Redford Union High School, 17711 Kinloch, Redford, Michigan 48420.

The Owner requires Substantial Completion of the project at all three buildings as follows: August 24, 2012

Board of Education
REDFORD UNION SCHOOLS

SECTION 00 73 43

PREVAILING WAGES

Current Prevailing Wages information from the State of Michigan is attached to this section.

END OF SECTION 00 73 43



RICK. SNYDER
GOVERNOR

STATE OF MICHIGAN

Prevailing Wages
PO Box 30476
Lansing, MI 48909
517-322-1825



Informational Sheet: Prevailing Wages on State Projects

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

The State of Michigan determines prevailing rates pursuant to the Prevailing Wages on State Projects Act, Public Act 166 of 1965, as amended. The purpose of establishing prevailing rates is to provide minimum rates of pay that must be paid to 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 official prevailing rate schedule provides 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. Prevailing wage is satisfied when wages plus fringe benefits paid to a worker are equal to or greater than the required rate.

State of Michigan responsibilities under the law:

- The department establishes the prevailing rate for each classification of construction mechanic **requested by a contracting agent** 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 re-determination of rates must be requested by the contracting agent.
- Rates for classifications needed but not provided on the Prevailing Rate Schedule, **must** be obtained **prior** 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 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 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 including certified payroll, as used in the industry, 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 *shall only* 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 State of Michigan. The department will investigate and attempt to resolve the complaint informally. During the course of an investigation, if the requested records and posting certification are not made available in compliance with Section 5 of Act 166, the investigation will be concluded and a referral to the Office of Attorney General for civil action will be made. The Office of Attorney General will pursue costs and fees associated with a lawsuit if filing is necessary to obtain records.



RICK. SNYDER
GOVERNOR

STATE OF MICHIGAN

Prevailing Wages
PO Box 30476
Lansing, MI 48909
517-322-1825



Informational Sheet: Prevailing Wages on State Projects

General Information Regarding Fringe Benefits

Certain fringe benefits may be credited toward the payment of the Prevailing Wage Rate:

- If a fringe benefit is paid directly to a construction mechanic
- If a fringe benefit contribution or payment is made on behalf of a construction mechanic
- If a fringe benefit, which may be provided to a construction mechanic, is pursuant to a written contract or policy
- If a fringe benefit is paid into a fund, for a construction mechanic

When a fringe benefit is not paid by an hourly rate, the hourly credit will be calculated based on the annual value of the fringe benefit divided by 2080 hours per year (52 weeks @ 40 hours per week).

The following is an example of the types of fringe benefits allowed and how an hourly credit is calculated:

Vacation	40 hours X \$14.00 per hour = \$560/2080 =	\$.27
Dental insurance	\$31.07 monthly premium X 12 mos. = \$372.84 /2080 =	\$.18
Vision insurance	\$5.38 monthly premium X 12 mos. = \$64.56/2080 =	\$.03
Health insurance	\$230.00 monthly premium X 12 mos. = \$2,760.00/2080 =	\$1.33
Life insurance	\$27.04 monthly premium X 12 mos. = \$324.48/2080 =	\$.16
Tuition	\$500.00 annual cost/2080 =	\$.24
Bonus	4 quarterly bonus/year x \$250 = \$1000.00/2080 =	\$.48
401k Employer Contribution	\$2000.00 total annual contribution/2080 =	\$.96
Total Hourly Credit		\$3.65

Other examples of the types of fringe benefits allowed:

- Sick pay
- Holiday pay
- Accidental Death & Dismemberment insurance premiums

The following are examples of items that **will not** be credited toward the payment of the Prevailing Wage Rate

- Legally required payments, such as:
 - Unemployment Insurance payments
 - Workers' Compensation Insurance payments
 - FICA (Social Security contributions, Medicare contributions)
- Reimbursable expenses, such as:
 - Clothing allowance or reimbursement
 - Uniform allowance or reimbursement
 - Gas allowance or reimbursement
 - Travel time or payment
 - Meals or lodging allowance or reimbursement
 - Per diem allowance or payment
- Other payments to or on behalf of a construction mechanic that are not wages or fringe benefits, such as:
 - Industry advancement funds
 - Financial or material loans



State of Michigan
 DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
 MICHIGAN OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 DOUGLAS KALINOWSKI
 DIRECTOR

OVERTIME PROVISIONS for MICHIGAN PREVAILING WAGE RATE COMMERCIAL SCHEDULE

- 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	Four 10s
First 8 Hours		4	8	9
9th Hour	1	5		
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

Four Ten Hour Days

The 9th character indicates if an optional 4-day 10-hour per day workweek can be worked *between Monday and Friday without paying overtime after 8 hours worked, unless otherwise noted in the rate schedule. To utilize a 4 ten workweek, notice is required from the employer to employee prior to the start of work on the project.*

- 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

LARA is an equal opportunity employer.
 Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.

3. EXAMPLES:

HHHHHHDN - This example shows that the 1½ rate must be used for time worked after 8 hours Monday thru Friday (*characters 1 - 3*); for all hours worked on Saturday, 1½ 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.

XXXHHHDY - This example shows that the 1½ rate must be used for time worked after 40 hours are worked Monday thru Friday (*characters 1-3*); for hours worked on Saturday, 1½ 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 ten-hour days is an acceptable alternative workweek.

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Wage & Hour Division

7150 HARRIS DRIVE • P.O. BOX 30476 • LANSING, MICHIGAN 48909

www.michigan.gov/wagehour • Phone : (517) 322-1825

ENGINEERS - CLASSES OF EQUIPMENT LIST

UNDERGROUND ENGINEERS	HAZARDOUS WASTE ABATEMENT ENGINEERS
<p>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, Hydro Excavator.</p> <p>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), Tractor (pneu-tired, other than backhoe or front end loader), Trencher (8' digging capacity and smaller), Vac Truck.</p> <p>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).</p> <p>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) Sweeper (Wayne type and similar equipment), Water Wagon, Extend-a-Boom Forklift.</p>	<p>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, Hydro Excavator, Loader, Pug Mill, Pumpcrete Machines, Pump Trucks, Roller, Scraper (self-propelled or tractor drawn), Side Boom Tractor, Slip Form Paver, Slope Paver, Trencher, Ultra High Pressure Waterjet Cutting Tool System Operator, Vactors, Vacuum Blasting Machine Operator, Vertical Lifting Hoist, Vibrating Compaction Equipment (self-propelled), and Well Drilling Rig.</p> <p>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, Water Wagon and Welding Machine.</p>

State of Michigan

WHPWRequest@michigan.gov

Official Request #: 530

Requestor: Redford Union Schools

Project Description: Redford Union High School, Stuckey Center & MacGowan Elementary - Improvements

Project Number: 094020 & 094022

Wayne County

Official 2012 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/27/2012

Contract must be awarded by: 7/26/2012

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<u>Classification</u>			Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description						
Asbestos & Lead Abatement Laborer							
Asbestos & Lead Abatement Laborer		MLDC	9/26/2011	\$37.95	\$50.75	\$63.54	H H H X X X D Y
4 ten hour days @ straight time allowed Monday-Saturday, must be consecutive calendar days							
Asbestos & Lead Abatement, Hazardous Material Handler							
Asbestos and Lead Abatement, Hazardous Material Handler		AS207	9/26/2011	\$37.95	\$50.85	\$63.75	H H H X X X D Y
4 ten hour days @ straight time allowed Monday-Saturday,							
Boilermaker							
Boilermaker		BO169	8/14/2009	\$54.70	\$81.08	\$107.45	H H H H H H D Y
Apprentice Rates:							
				1st 6 months	\$40.31	\$59.49	\$78.67
				2nd 6 months	\$41.45	\$61.21	\$80.95
				3rd 6 months	\$42.57	\$62.88	\$83.19
				4th 6 months	\$43.69	\$64.57	\$85.43
				5th 6 months	\$44.81	\$66.24	\$87.67
				6th 6 months	\$49.53	\$73.40	\$97.26
				7th 6 months	\$49.32	\$73.01	\$96.69
				8th 6 months	\$51.58	\$76.40	\$101.21

Official Request #: 530

Requestor: Redford Union Schools

Project Description: Redford Union High School, Stuckey Center & MacGowan

Project Number: 094020 & 094022

County: Wayne

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.

Official 2012 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/27/2012

Contract must be awarded by: 7/26/2012

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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Bricklayer

Bricklayer, stone mason, pointer, cleaner, caulker	BR1	12/5/2011	\$50.68	\$76.02	\$101.36 H H D H D D D D N
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Between October 1 and April 30, if lost time occurs due to inclement weather, Saturday may be worked as a make-up day @ straight time until forty hours are worked.

Apprentice Rates:

First 6 months	\$30.72	\$46.08	\$61.44
2nd 6 months	\$32.57	\$48.86	\$65.14
3rd 6 months	\$34.42	\$51.64	\$68.84
4th 6 months	\$36.27	\$54.41	\$72.54
5th 6 months	\$38.12	\$57.18	\$76.24
6th 6 months	\$39.97	\$59.96	\$79.94
7th 6 months	\$41.82	\$62.74	\$83.64
8th 6 months	\$43.67	\$65.51	\$87.34

Carpenter

Carpet and Resilient Floor Layer, (does not include installation of prefabricated formica & parquet flooring which is to be paid carpenter rate)	CA1045	9/15/2011	\$46.04	\$65.56	\$85.07 X X H X X X D Y
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Apprentice Rates:

1st 6 months	\$22.62	\$30.43	\$38.23
2nd 6 months	\$26.52	\$36.27	\$46.03
3rd 6 months	\$28.48	\$39.21	\$49.95
4th 6 months	\$30.43	\$42.14	\$53.85
5th 6 months	\$32.39	\$45.08	\$57.77
6th 6 months	\$34.33	\$48.00	\$61.65
7th 6 months	\$36.29	\$50.94	\$65.57
8th 6 months	\$38.23	\$53.84	\$69.45

Carpenter-four 10s allowed Mon-Thurs with bad weather makeup day Fri	CA687Z1	9/12/2011	\$51.19	\$73.14	\$95.09 H H D H D D D D Y
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Apprentice Rates:

1st year	\$31.45	\$43.53	\$55.61
3rd 6 months	\$33.64	\$46.82	\$59.99
4th 6 months	\$35.83	\$50.10	\$64.37
5th 6 months	\$38.02	\$53.38	\$68.75
6th 6 months	\$40.22	\$56.69	\$73.15
7th 6 months	\$42.41	\$59.98	\$77.53
8th 6 months	\$44.61	\$63.27	\$81.93

Official Request #: 530

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Piledriver Four 10s allowed Monday-Thurs. Friday makeup day for bad weather.	CA687Z1P 9/12/2011	\$51.19	\$73.14	\$95.09	H H D H D D D D Y

Apprentice Rates:

1st 6 months	\$31.45	\$43.53	\$55.61
2nd 6 months	\$35.83	\$50.10	\$64.37
3rd 6 months	\$40.22	\$56.69	\$73.15
4th 6 months	\$44.61	\$63.27	\$81.93

Cement Mason
Cement Mason

br1cm

3/5/2012

\$47.30 \$66.82 \$86.33 X X H H H H H D N

Apprentice Rates:

1st 6 months	\$27.51	\$37.26	\$47.00
2nd 6 months	\$29.47	\$40.20	\$50.92
3rd 6 months	\$33.36	\$46.03	\$58.70
4th 6 months	\$37.26	\$51.88	\$66.50
5th 6 months	\$39.20	\$54.79	\$70.38
6th 6 months	\$43.10	\$60.64	\$78.18

Cement Mason

CE514

11/10/2011

\$46.30 \$64.89 \$83.48 H H D H H H H D N

Apprentice Rates:

1st 6 months	\$26.77	\$36.07	\$45.36
2nd 6 months	\$28.68	\$38.91	\$49.13
3rd 6 months	\$32.50	\$44.59	\$56.66
4th 6 months	\$36.32	\$50.26	\$64.19
5th 6 months	\$38.24	\$53.11	\$67.98
6th 6 months	\$42.06	\$58.79	\$75.51

Drywall

Drywall Taper

PT-22-D

10/15/2009

\$41.70 \$54.58 \$67.45 H H D H D D D D N

Apprentice Rates:

First 3 months	\$28.83	\$35.27	\$41.71
Second 3 months	\$31.40	\$39.13	\$46.85
Second 6 months	\$33.97	\$42.98	\$51.99
Third 6 months	\$36.55	\$46.85	\$57.15
4th 6 months	\$37.84	\$48.79	\$59.73

Official Request #: 530

Requestor: Redford Union Schools

Project Description: Redford Union High School, Stuckey Center & MacGowan

Project Number: 094020 & 094022

County: Wayne

Official Rate Schedule

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Official 2012 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/27/2012

Contract must be awarded by: 7/26/2012

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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Electrician Road Way Electrical Work Double time due after 16 hours on any calendar day and all hours Sunday.	EC-17 5/31/2011	\$48.61	\$70.50	\$92.39	H H H H H H H D Y
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Apprentice Rates:

1st 6 months	\$31.11	\$44.26	\$57.38
2nd 6 months	\$33.30	\$47.52	\$61.76
3rd 6 months	\$35.48	\$50.81	\$66.14
4th 6 months	\$37.68	\$54.08	\$70.51
5th 6 months	\$39.86	\$57.38	\$74.89
6th 6 months	\$44.23	\$63.94	\$83.64

Inside Wireman	EC-58-IW 2/18/2011	\$56.51	\$75.12	\$93.74	H H H H H H H D N
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Apprentice Rates:

0-1000 hours	\$35.36	\$43.41	\$51.45
1000-2000 hours	\$37.12	\$46.04	\$54.97
2000-3500 hours	\$38.88	\$48.69	\$58.49
3500-5000 hours	\$40.65	\$51.34	\$62.03
5000-6500 hours	\$44.18	\$56.64	\$69.09
6500-8000 hours	\$47.70	\$61.92	\$76.13

Sound and Communication Installer/Technician	EC-58-SC 1/7/2008	\$32.54	\$44.20	\$55.86	H H H H H H H D N
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Apprentice Rates:

Period 1	\$20.88	\$26.71	\$32.54
Period 2	\$22.04	\$28.46	\$34.86
Period 3	\$23.21	\$30.21	\$37.20
Period 4	\$24.38	\$31.96	\$39.54
Period 5	\$25.55	\$33.72	\$41.88
Period 6	\$26.71	\$35.46	\$44.20

Elevator Constructor Elevator Constructor Elevator Constructor	EL 36 8/7/2007	\$56.46		\$94.99	D D D D D D D D Y
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Apprentice Rates:

1st Year Apprentice	\$37.74	\$58.93
2nd Year Apprentice	\$41.90	\$66.94
3rd Year Apprentice	\$43.98	\$70.95
4th Year Apprentice	\$48.14	\$78.96

Official Request #: 530

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Project Description: Redford Union High School, Stuckey Center & MacGowan

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Official 2012 Prevailing Wage Rates for State Funded Projects

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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Glazier Glazier If a four 10 hour day workweek is scheduled, four 10s must be consecutive, M-F.	GL-357 9/12/2011	\$45.49	\$63.69	\$81.88	H H H H H H H D Y
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Apprentice Rates:

1st 6 months	\$31.13	\$42.15	\$53.16
2nd 6 months	\$32.59	\$44.34	\$56.08
3rd 6 months	\$35.35	\$48.48	\$61.60
4th 6 months	\$36.80	\$50.65	\$64.50
5th 6 months	\$38.25	\$52.83	\$67.40
6th 6 months	\$39.70	\$55.01	\$70.30
7th 6 months	\$41.15	\$57.18	\$73.20
8th 6 months	\$44.04	\$61.51	\$78.98

Heat and Frost Insulator Spray Insulation	AS25S 3/5/2007	\$20.14	\$29.14	H H H H H H H N
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Heat and Frost Insulator and Asbestos Worker Heat and Frost Insulators and Asbestos Workers Four 10s must be worked for a minimum of 2 weeks consecutively, Monday thru Thursday. All hours worked in excess of 10 will be paid at double time. All hours worked on the fifth day, Monday thru Friday will be paid at time and one-half.	AS25 8/14/2009	\$53.15	\$68.54	\$83.92 H H H H H H H D Y
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Apprentice Rates:

1st Year	\$39.30	\$47.76	\$56.22
2nd Year	\$42.38	\$52.38	\$62.38
3rd Year	\$43.92	\$54.69	\$65.46
4th Year	\$47.00	\$59.31	\$71.62

Ironworker Fence, Sound Barrier & Guardrail erection/installation and Exterior Signage work Four ten hour work days may be worked during Monday-Saturday.	IR-25-F1 10/6/2011	\$32.30	\$44.30	\$56.30 X X H X X X H D Y
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Apprentice Rates:

60% Level	\$22.00	\$29.20	\$36.40
65% Level	\$23.29	\$31.09	\$38.89
70% Level	\$24.58	\$32.98	\$41.38
75% Level	\$25.86	\$34.86	\$43.86
80% Level	\$27.15	\$36.75	\$46.35
85% Level	\$28.44	\$38.64	\$48.84

Official Request #: 530

Requestor: Redford Union Schools

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Official 2012 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/27/2012

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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Siding, Glazing, Curtain Wall	IR-25-GZ2		\$43.36	\$55.02	\$66.68	H H H H H H D D Y
4 tens may be worked Monday thru Thursday @ straight time. If bad weather, Friday may be a make up day. If holiday celebrated on a Monday, 4 10s may be worked Tuesday thru Friday. Work in excess of 12 hours per day must be paid @ double time.						
	10/10/2011					

Apprentice Rates:

Level 1	\$27.03	\$33.64	\$40.23
Level 2	\$29.14	\$36.38	\$43.60
Level 3	\$31.26	\$39.13	\$46.99
Level 4	\$33.38	\$41.88	\$50.37
Level 5	\$35.49	\$44.62	\$53.75
Level 6	\$37.61	\$47.37	\$57.13

Pre-engineered Metal Work	IR-25-PE-Z1		\$44.59	\$54.71	\$64.83	X X H X X X X D Y
	4/12/2012					

Apprentice Rates:

1st Year	\$24.56	\$30.05	\$35.53
3rd 6 month period	\$26.68	\$32.91	\$39.15
4th 6 month period	\$28.81	\$35.80	\$42.80
5th 6 month period	\$30.93	\$38.68	\$46.42
6th 6 month period	\$33.06	\$41.56	\$50.06

Reinforced Iron Work	IR-25-RF		\$52.36	\$74.85	\$97.34	H H D H D D D D N
	10/10/2011					

Apprentice Rates:

Level 1	\$33.01	\$45.52	\$58.04
Level 2	\$35.38	\$50.51	\$64.68
Level 3	\$37.74	\$52.62	\$67.50
Level 4	\$40.28	\$57.86	\$74.48
Level 5	\$42.81	\$60.22	\$77.64
Level 6	\$45.35	\$64.04	\$82.72

Rigging Work	IR-25-RIG		\$57.73	\$86.41	\$115.08	H H H H H H D N
	10/10/2011					

Apprentice Rates:

Level 1 & 2	\$33.28	\$49.67	\$66.05
Level 3	\$36.11	\$53.92	\$71.71
Level 4	\$38.93	\$58.14	\$77.35
Level 5	\$41.76	\$62.39	\$83.01
Level 6	\$44.59	\$66.63	\$88.67

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Requestor: Redford Union Schools

Project Description: Redford Union High School, Stuckey Center & MacGowan

Project Number: 094020 & 094022

County: Wayne

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Official 2012 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/27/2012

Contract must be awarded by: 7/26/2012

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Decking 4 tens may be worked Monday thru Thursday @ straight time. If bad weather, Friday may be a make up day. If holiday celebrated on a Monday, 4 10s may be worked Tuesday thru Friday. Work in excess of 12 hours per day must be paid @ double time.	IR-25-SD 10/10/2011	\$49.44	\$73.91	\$98.37	H H H H H D D Y
Structural, ornamental, conveyor, welder and pre-cast 4 tens may be worked Monday thru Thursday @ straight time. If bad weather, Friday may be a make up day. If holiday celebrated on a Monday, 4 10s may be worked Tuesday thru Friday. Work in excess of 12 hours per day must be paid @ double time.	IR-25-STR 10/10/2011	\$58.11	\$86.91	\$115.71	H H H H H D D Y

Apprentice Rates:

Levels 1 & 2	\$32.77	\$49.15	\$65.54
Level 3	\$35.60	\$53.40	\$71.20
Level 4	\$38.42	\$57.63	\$76.84
Level 5	\$41.25	\$61.88	\$82.50
Level 6	\$44.08	\$66.13	\$88.16
Level 7	\$46.90	\$70.35	\$93.80
Level 8	\$49.73	\$74.60	\$99.46

Industrial Door erection & construction	IR-25-STR-D 10/10/2011	\$58.17	\$72.60	\$87.02	H H D H H D D Y
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Laborer

Construction Laborer, Demolition Laborer, Mason Tender, Carpenter Tender, Drywall Handler, Concrete Laborer, Cement Finisher Tender, Concrete Chute, and Concrete Bucket Handler	L33401-A-CC 11/19/2011	\$40.96	\$58.16	\$75.35	H H H H H H D Y
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If conditions beyond the employer/employee's control prevent one or more hours of working during Mon-Fri, the employer may choose to work up to 10 hour straight time weekdays. Work may be scheduled up to 10 hours per Mon-Fri for the purpose of reaching 40 hours @ straight time. Make up days may also include 8 hours of work on Saturdays @ straight time.

Apprentice Rates:

0-1,000 work hours	\$35.12	\$49.40	\$63.67
1,001 - 2,000 work hours	\$36.29	\$51.15	\$66.01
2,001 - 3,000 work hours	\$37.46	\$52.91	\$68.35
3,001 - 4,000 work hours	\$39.79	\$56.41	\$73.01

Official Request #: 530

Requestor: Redford Union Schools

Project Description: Redford Union High School, Stuckey Center & MacGowan

Project Number: 094020 & 094022

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Official 2012 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/27/2012

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Signal Man (on sewer & caisson work), Air, Electric or Gasoline Tool Operator, Concrete Vibrator Operator, Acetylene Torch & Air Hammer Operator; Scaffold Builder, Caisson Worker	L33401-B-SB 11/18/2011	\$41.22	\$58.55	\$75.87	H H H H H H H D Y
<p>If conditions beyond the employer/employee's control prevent one or more hours of working during Mon-Fri, the employer may choose to work up to 10 hour straight time weekdays. Work may be scheduled up to 10 hours per Mon-Fri for the purpose of reaching 40 hours @ straight time. Make up days may also include 8 hours of work on Saturdays @ straight time.</p>					
Furnace Battery Heater Tender, Burning Bar & Oxy-Acetylene Gun	L33401-D-HH 11/18/2011	\$41.46	\$58.91	\$76.35	H H H H H H H D Y
<p>If conditions beyond the employer/employee's control prevent one or more hours of working during Mon-Fri, the employer may choose to work up to 10 hour straight time weekdays. Work may be scheduled up to 10 hours per Mon-Fri for the purpose of reaching 40 hours @ straight time. Make up days may also include 8 hours of work on Saturdays @ straight time.</p>					
Expediter Man, Top Man and/or Bottom Man (Blast Furnace Work or Battery Work)	L33401-E-EX 11/18/2011	\$42.21	\$60.03	\$77.85	H H H H H H H D Y
<p>If conditions beyond the employer/employee's control prevent one or more hours of working during Mon-Fri, the employer may choose to work up to 10 hour straight time weekdays. Work may be scheduled up to 10 hours per Mon-Fri for the purpose of reaching 40 hours @ straight time. Make up days may also include 8 hours of work on Saturdays @ straight time.</p>					
Cleaner/Sweeper Laborer; Furniture Laborer	L33401-F-CL 11/18/2011	\$35.51	\$49.98	\$64.45	H H H H H H H D Y
<p>If conditions beyond the employer/employee's control prevent one or more hours of working during Mon-Fri, the employer may choose to work up to 10 hour straight time weekdays. Work may be scheduled up to 10 hours per Mon-Fri for the purpose of reaching 40 hours @ straight time. Make up days may also include 8 hours of work on Saturdays @ straight time.</p>					
Lansing Burner, Blaster & Powder Man; Air, Electric or Gasoline Tool Operator (Blast Furnace Work or Battery Work)	L334C 8/8/2011	\$41.71	\$59.28	\$76.85	X X H X H H H D Y

Official Request #: 530
 Requestor: Redford Union Schools
 Project Description: Redford Union High School, Stuckey Center & MacGowan
 Project Number: 094020 & 094022
 County: Wayne

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.

Official 2012 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/27/2012

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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Plasterer Tender, Plastering Machine Operator	LPT-1	11/18/2011	\$40.96	\$58.16	\$75.35 H H H H H H D N
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If conditions beyond the employer/employee's control prevent one or more hours of working during Mon-Fri, the employer may choose to work up to 10 hour straight time weekdays. Work may be scheduled up to 10 hours per Mon-Fri for the purpose of reaching 40 hours @ straight time. Make up days may also include 8 hours of work on Saturdays @ straight time.

Apprentice Rates:

0 - 1,000 hours	\$35.13	\$49.41	\$63.69
1,001 - 2,000 hours	\$36.29	\$51.15	\$66.01
2,001 - 3,000 hours	\$37.46	\$52.91	\$68.35
3,001 - 4,000 hours	\$39.79	\$56.41	\$73.01

Laborer - Hazardous

Class A performing work in conjunction with site preparation and other preliminary work prior to actual removal, handling, or containment of hazardous waste substances not requiring use of personal protective equipment required by state or federal regulations; or a laborer performing work in conjunction with the removal, handling, or containment of hazardous waste substances when use of personal protective equipment level "D" is required.	LHAZ-Z1-A	10/21/2011	\$40.96	\$58.16	\$75.35 H H H H H H D Y
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Apprentice Rates:

0-1,000 work hours	\$35.12	\$49.40	\$63.67
1,001-2,000 work hours	\$36.29	\$51.15	\$66.01
2,001-3,000 work hours	\$37.46	\$52.91	\$68.35
3,001-4,000 work hours	\$39.79	\$56.41	\$73.01

Class B performing work in conjunction with the removal, handling, or containment of hazardous waste substances when the use of personal protective equipment levels "A", "B" or "C" is required.	LHAZ-Z1-B	10/21/2011	\$41.96	\$59.66	\$77.35 H H H H H H D Y
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Apprentice Rates:

0-1,000 work hours	\$35.88	\$50.54	\$65.19
1,001-2,000 work hours	\$37.09	\$52.35	\$67.61
2,001-3,000 work hours	\$38.31	\$54.19	\$70.05
3,001-4,000 work hours	\$40.74	\$57.83	\$74.91

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Laborer Underground - Tunnel, Shaft & Caisson					
Class I - Tunnel, shaft and caisson laborer, dump man, shanty man, hog house tender, testing man (on gas), and watchman.	LAUCT-Z1-1 10/14/2011	\$35.97	\$46.66	\$57.34	H H H H H H H D Y
Apprentice Rates:					
		0-1,000 work hours	\$31.15	\$39.43	\$47.70
		1,001-2,000 work hours	\$32.12	\$40.88	\$49.64
		2,001-3,000 work hours	\$33.08	\$42.32	\$51.56
		3,001-4,000 work hours	\$35.01	\$45.21	\$55.42
Class II - Manhole, headwall, catch basin builder, bricklayer tender, mortar man, material mixer, fence erector, and guard rail builder.	LAUCT-Z1-2 10/14/2011	\$36.08	\$46.82	\$57.56	H H H H H H H D Y
Apprentice Rates:					
		0-1,000 work hours	\$31.24	\$39.56	\$47.88
		1,001-2,000 work hours	\$32.20	\$41.00	\$49.80
		2,001-3,000 work hours	\$33.17	\$42.45	\$51.74
		3,001-4,000 work hours	\$35.11	\$45.37	\$55.62
Class III - Air tool operator (jack hammer man, bush hammer man and grinding man), first bottom man, second bottom man, cage tender, car pusher, carrier man, concrete man, concrete form man, concrete repair man, cement invert laborer, cement finisher, concrete shoveler, conveyor man, floor man, gasoline and electric tool operator, gunnite man, grout operator, welder, heading dinky man, inside lock tender, pea gravel operator, pump man, outside lock tender, scaffold man, top signal man, switch man, track man, tugger man, utility man, vibrator man, winch operator, pipe jacking man, wagon drill and air track operator and concrete saw operator (under 40 h.p.).	LAUCT-Z1-3 10/14/2011	\$36.14	\$46.91	\$57.68	H H H H H H H D Y
Apprentice Rates:					
		0-1,000 work hours	\$31.28	\$39.62	\$47.96
		1,001-2,000 work hours	\$32.25	\$41.07	\$49.90
		2,001-3,000 work hours	\$33.22	\$42.53	\$51.84
		3,001-4,000 work hours	\$35.17	\$45.45	\$55.74

Official Request #: 530

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Class IV - Tunnel, shaft and caisson mucker, bracer man, liner plate man, long haul dinky driver and well point man.	LAUCT-Z1-4 10/14/2011	\$36.32	\$47.18	\$58.04	H H H H H H D Y
Apprentice Rates:					
		0-1,000 work hours	\$31.42	\$39.83	\$48.24
		1,001-2,000 work hours	\$32.40	\$41.30	\$50.20
		2,001-3,000 work hours	\$33.38	\$42.77	\$52.16
		3,001-4,000 work hours	\$35.34	\$45.71	\$56.08
Class V - Tunnel, shaft and caisson miner, drill runner, keyboard operator, power knife operator, reinforced steel or mesh man (e.g. wire mesh, steel mats, dowel bars)	LAUCT-Z1-5 10/14/2011	\$36.57	\$47.56	\$58.54	H H H H H H D Y
Apprentice Rates:					
		0-1,000 work hours	\$31.60	\$40.10	\$48.60
		1,001-2,000 work hours	\$32.60	\$41.60	\$50.60
		2,001-3,000 work hours	\$33.59	\$43.09	\$52.58
		3,001-4,000 work hours	\$35.58	\$46.07	\$56.56
Class VI - Dynamite man and powder man.	LAUCT-Z1-6 10/14/2011	\$36.90	\$48.05	\$59.20	H H H H H H D Y
Apprentice Rates:					
		0-1,000 work hours	\$31.85	\$40.47	\$49.10
		1,001-2,000 work hours	\$32.86	\$41.99	\$51.12
		2,001-3,000 work hours	\$33.87	\$43.51	\$53.14
		3,001-4,000 work hours	\$35.89	\$46.53	\$57.18
Class VII - Restoration laborer, seeding, sodding, planting, cutting, mulching and topsoil grading and the restoration of property such as replacing mail boxes, wood chips, planter boxes and flagstones.	LAUCT-Z1-7 10/14/2011	\$30.18	\$37.97	\$45.76	H H H H H H D Y
Apprentice Rates:					
		0-1,000 work hours	\$26.81	\$32.91	\$39.02
		1,001-2,000 work hours	\$27.48	\$33.92	\$40.36
		2,001-3,000 work hours	\$28.16	\$34.94	\$41.72
		3,001-4,000 work hours	\$29.51	\$36.97	\$44.42

Official Request #: 530

Requestor: Redford Union Schools

Project Description: Redford Union High School, Stuckey Center & MacGowan

Project Number: 094020 & 094022

County: Wayne

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Landscape Laborer					
Landscape Specialist includes air, gas, and diesel equipment operator, skidsteer (or equivalent), lawn sprinkler installer on landscaping work where seeding, sodding, planting, cutting, trimming, backfilling, rough grading or maintenance of landscape projects occurs.	LLAN-Z1-A 9/16/2011	\$26.78	\$37.04	\$47.29	X X H X X X H D Y
Sundays paid at time & one half. Holidays paid at double time.					
Skilled Landscape Laborer: small power tool operator, lawn sprinkler installers' tender, material mover, truck driver when seeding, sodding, planting, cutting, trimming, backfilling, rough grading or maintaining of landscape projects occurs					
Skilled Landscape Laborer: small power tool operator, lawn sprinkler installers' tender, material mover, truck driver when seeding, sodding, planting, cutting, trimming, backfilling, rough grading or maintaining of landscape projects occurs	LLAN-Z1-B 9/16/2011	\$22.56	\$30.71	\$38.85	X X H X X X H D Y
Sundays paid at time & one half. Holidays paid at double time.					
Seeding, sodding, planting, cutting, trimming, backfilling, rough grading or maintaining of landscape projects.	LLAN-Z1-C 9/16/2011	\$13.90	\$20.85	\$27.80	X X H X X X H D Y
Sundays paid at time & one half. Holidays paid at double time.					
Marble Finisher					
Marble Finisher A 4 ten workweek may be worked Monday thru Thursday or Tuesday thru Friday.	BR1-MF 8/11/2009	\$41.37	\$51.86	\$62.34	H H D H D D D D Y

Apprentice Rates:

Level 1	\$18.11	\$24.00	\$29.89
Level 2	\$19.25	\$25.71	\$32.17
Level 3	\$25.69	\$32.40	\$39.12
Level 4	\$27.09	\$34.50	\$41.92
Level 5	\$28.53	\$36.15	\$43.77
Level 6	\$30.07	\$38.06	\$46.06
Level 7	\$31.68	\$39.73	\$47.79
Level 8	\$33.10	\$41.42	\$49.74

Official Request #: 530
 Requestor: Redford Union Schools
 Project Description: Redford Union High School, Stuckey Center & MacGowan
 Project Number: 094020 & 094022
 County: Wayne

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.

Official 2012 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/27/2012

Contract must be awarded by: 7/26/2012

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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Marble Mason

Marble Mason	BR1-MM		\$47.85	\$61.58	\$75.30 H H D H D D D D Y
A 4 ten workweek may be worked Monday thru Thursday or Tuesday thru Friday.		8/11/2009			

Apprentice Rates:

Level 1		\$23.92	\$31.19	\$38.47
Level 2		\$26.83	\$34.85	\$42.87
Level 3		\$31.79	\$40.02	\$48.26
Level 4		\$34.40	\$43.55	\$52.69
Level 5		\$36.55	\$45.94	\$55.33
Level 6		\$40.04	\$51.10	\$62.16
Level 7		\$40.67	\$51.90	\$63.14
Level 8		\$41.56	\$53.24	\$64.92

Operating Engineer

Crane with boom & jib or leads 120' or longer	EN-324-A120		\$54.01	\$71.10	\$88.18 H H D H D D D D Y
		8/5/2011			

Four ten hour days may be scheduled Monday-Thursday. Work in excess of 10 hours but less than 12 per day shall be paid at time and one-half. Work in excess of 12 per day shall be paid at double time. When bad weather or holiday occurs during this time, Friday may be scheduled for a minimum of 8 hours.

Crane with boom & jib or leads 140' or longer	EN-324-A140		\$54.83	\$72.33	\$89.82 H H D H D D D D Y
		8/5/2011			

Four ten hour days may be scheduled Monday-Thursday. Work in excess of 10 hours but less than 12 per day shall be paid at time and one-half. Work in excess of 12 per day shall be paid at double time. When bad weather or holiday occurs during this time, Friday may be scheduled for a minimum of 8 hours.

Crane with boom & jib or leads 220' or longer	EN-324-A220		\$55.13	\$72.78	\$90.42 H H D H D D D D Y
		8/5/2011			

Four ten hour days may be scheduled Monday-Thursday. Work in excess of 10 hours but less than 12 per day shall be paid at time and one-half. Work in excess of 12 per day shall be paid at double time. When bad weather or holiday occurs during this time, Friday may be scheduled for a minimum of 8 hours.

Official Request #: 530

Requestor: Redford Union Schools

Project Description: Redford Union High School, Stuckey Center & MacGowan

Project Number: 094020 & 094022

County: Wayne

Official Rate Schedule

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Official 2012 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/27/2012

Contract must be awarded by: 7/26/2012

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Crane with boom & jib or leads 300' or longer Four ten hour days may be scheduled Monday-Thursday. Work in excess of 10 hours but less than 12 per day shall be paid at time and one-half. Work in excess of 12 per day shall be paid at double time. When bad weather or holiday occurs during this time, Friday may be scheduled for a minimum of 8 hours.	EN-324-A300 8/5/2011	\$56.63	\$75.03	\$93.42	H H D H D D D D Y
Crane with boom & jib or leads 400' or longer Four ten hour days may be scheduled Monday-Thursday. Work in excess of 10 hours but less than 12 per day shall be paid at time and one-half. Work in excess of 12 per day shall be paid at double time. When bad weather or holiday occurs during this time, Friday may be scheduled for a minimum of 8 hours.	EN-324-A400 6/9/2011	\$58.13	\$77.28	\$96.42	H H D H D D D D Y
Compressor or welding machine Four ten hour days may be scheduled Monday-Thursday. Work in excess of 10 hours but less than 12 per day shall be paid at time and one-half. Work in excess of 12 per day shall be paid at double time. When bad weather or holiday occurs during this time, Friday may be scheduled for a minimum of 8 hours.	EN-324-CW 8/8/2011	\$43.16	\$54.82	\$66.48	H H D H D D D D Y
Forklift, lull, extend-a-boom forklift Four ten hour days may be scheduled Monday-Thursday. Work in excess of 10 hours but less than 12 per day shall be paid at time and one-half. Work in excess of 12 per day shall be paid at double time. When bad weather or holiday occurs during this time, Friday may be scheduled for a minimum of 8 hours.	EN-324-FL 8/8/2011	\$50.47	\$65.79	\$81.10	H H D H D D D D Y
Fireman or oiler Four ten hour days may be scheduled Monday-Thursday. Work in excess of 10 hours but less than 12 per day shall be paid at time and one-half. Work in excess of 12 per day shall be paid at double time. When bad weather or holiday occurs during this time, Friday may be scheduled for a minimum of 8 hours.	EN-324-FO 8/8/2011	\$42.13	\$53.28	\$64.42	H H D H D D D D Y

Official Request #: 530
 Requestor: Redford Union Schools
 Project Description: Redford Union High School, Stuckey Center & MacGowan
 Project Number: 094020 & 094022
 County: Wayne

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.

Official 2012 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/27/2012

Contract must be awarded by: 7/26/2012

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Regular crane, job mechanic, concrete pump with boom	EN-324-RC 8/5/2011	\$53.15	\$69.81	\$86.46	H H D H D D D D Y

Four ten hour days may be scheduled Monday-Thursday. Work in excess of 10 hours but less than 12 per day shall be paid at time and one-half. Work in excess of 12 per day shall be paid at double time. When bad weather or holiday occurs during this time, Friday may be scheduled for a minimum of 8 hours.

Regular engineer, hydro-excavator, remote controlled concrete breaker	EN-324-RE 8/5/2011	\$52.18	\$68.35	\$84.52	H H D H D D D D Y
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Four ten hour days may be scheduled Monday-Thursday. Work in excess of 10 hours but less than 12 per day shall be paid at time and one-half. Work in excess of 12 per day shall be paid at double time. When bad weather or holiday occurs during this time, Friday may be scheduled for a minimum of 8 hours.

Apprentice Rates:

0-999 hours	\$41.87	\$53.19	\$64.50
1,000-1,999 hours	\$43.49	\$55.62	\$67.74
2,000-2,999 hours	\$45.12	\$58.06	\$71.00
3,000-3,999 hours	\$46.73	\$60.48	\$74.22
4,000-4,999 hours	\$48.35	\$62.90	\$77.46
5,000-5,999 hours	\$49.96	\$65.32	\$80.68

Operating Engineer - Marine Construction

Diver/Wet Tender, Engineer (hydraulic dredge)	GLF-1 1/12/2011	\$59.91	\$78.51	\$97.11	X X H H H H H D Y
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Holiday pay= \$115.71 per hour, wages & fringes

Subdivision of county all Great Lakes, islands therein, & connecting & tributary waters

Crane/Backhoe Operator, 70 ton or over Tug Operator, Mechanic/Welder, Assistant Engineer (hydraulic dredge), Leverman (hydraulic dredge), Diver Tender	GLF-2 1/12/2011	\$58.41	\$76.26	\$94.11	X X H H H H H D Y
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Holiday pay = \$111.96 per hour, wages & fringes

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 on Barge, Deck Machinery	GLF-3 1/12/2011	\$54.51	\$70.41	\$86.31	X X H H H H H D Y
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Holiday pay = \$102.21 per hour, wages & fringes

Official Request #: 530

Requestor: Redford Union Schools

Project Description: Redford Union High School, Stuckey Center & MacGowan

Project Number: 094020 & 094022

County: Statewide

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.

Official 2012 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/27/2012

Contract must be awarded by: 7/26/2012

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters

Deck Equipment Operator, (Machineryman/Fireman), (4 equipment units or more), Off Road Trucks, Deck Hand, Tug Engineer, & Crane Maintenance 50 ton capacity and under or Backhoe 115,000 lbs or less, Assistant Tug Operator	GLF-4 1/12/2011	\$49.16	\$62.39	\$75.61	X X H H H H H D Y
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Holiday pay = \$88.83 per hour, wages & fringes

Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters

Operating Engineer Hazardous Waste Class I

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-HWCI-Z1A 1/20/2012	\$51.84	\$67.86	\$83.87	H H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

Apprentice Rates:

1st 6 months	\$41.63	\$52.85	\$64.05
2nd 6 months	\$43.23	\$55.25	\$67.25
3rd 6 months	\$44.83	\$57.64	\$70.45
4th 6 months	\$46.43	\$60.04	\$73.65
5th 6 months	\$48.03	\$62.44	\$76.85
6th 6 months	\$49.64	\$64.86	\$80.07

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-HWCI-Z1B 1/20/2012	\$50.89	\$66.43	\$81.97	H H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

Apprentice Rates:

1st 6 months	\$40.97	\$51.85	\$62.73
2nd 6 months	\$42.52	\$54.17	\$65.83
3rd 6 months	\$44.07	\$56.50	\$68.93
4th 6 months	\$45.64	\$58.86	\$72.07
5th 6 months	\$47.19	\$61.19	\$75.17
6th 6 months	\$48.74	\$63.51	\$78.27

Official Request #: 530

Requestor: Redford Union Schools

Project Description: Redford Union High School, Stuckey Center & MacGowan

Project Number: 094020 & 094022

County: Wayne

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.

Official 2012 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/27/2012

Contract must be awarded by: 7/26/2012

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Level D - Coveralls, safety boots, glasses or chemical splash goggles and hard hats. EN-324-HWCI-Z1D	1/20/2012	\$49.59	\$64.48	\$79.37	H H H H H H H D Y

Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

Apprentice Rates:

1st 6 months	\$40.06	\$50.49	\$60.91
2nd 6 months	\$41.54	\$52.71	\$63.87
3rd 6 months	\$43.04	\$54.96	\$66.87
4th 6 months	\$44.53	\$57.19	\$69.85
5th 6 months	\$46.02	\$59.42	\$72.83
6th 6 months	\$47.50	\$61.65	\$75.79

Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats. EN-324-HWCI-Z1DCL	1/20/2012	\$49.34	\$64.11	\$78.87	H H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

Apprentice Rates:

1st 6 months	\$39.89	\$50.23	\$60.57
2nd 6 months	\$41.36	\$52.44	\$63.51
3rd 6 months	\$42.83	\$54.64	\$66.45
4th 6 months	\$44.31	\$56.86	\$69.41
5th 6 months	\$45.79	\$59.08	\$72.37
6th 6 months	\$47.27	\$61.30	\$75.33

Operating Engineer Hazardous Waste Class II

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-HWCII-Z1A	1/20/2012	\$47.61	\$61.51	\$75.41	H H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

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	1/20/2012	\$46.66	\$60.09	\$73.51	H H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

Official Request #: 530

Requestor: Redford Union Schools

Project Description: Redford Union High School, Stuckey Center & MacGowan

Project Number: 094020 & 094022

County: Wayne

Official Rate Schedule

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Official 2012 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/27/2012

Contract must be awarded by: 7/26/2012

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Level D - Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HWCII-Z1D 1/20/2012	\$45.36	\$58.14	\$70.91	H H H H H H H D Y
Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.					
Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HWCII-Z1DCL 1/20/2012	\$45.11	\$57.76	\$70.41	H H H H H H H D Y
Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.					
Operating Engineer Hazardous Waste Crane w/ Boom & Jib leads 140' or longer					
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-HW140-Z1A 1/20/2012	\$54.49	\$71.83	\$89.17	H H H H H H H D Y
Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.					
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 1/20/2012	\$53.54	\$70.41	\$87.27	H H H H H H H D Y
Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.					
Level D Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HW140-Z1D 1/20/2012	\$52.24	\$68.46	\$84.67	H H H H H H H D Y
Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.					
Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HW140-Z1DCL 1/20/2012	\$51.99	\$68.08	\$84.17	H H H H H H H D Y
Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.					

Official Request #: 530

Requestor: Redford Union Schools

Project Description: Redford Union High School, Stuckey Center & MacGowan

Project Number: 094020 & 094022

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Official 2012 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/27/2012

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Classification	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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Operating Engineer Hazardous Waste Crane w/ Boom & Jib leads 220' or longer

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 1/20/2012	\$54.79	\$72.28	\$89.77	H H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

Level B & C protection. B - Pressure demand, full face SCBAEN-324-HW220-Z1B 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 1/20/2012	\$53.84	\$70.86	\$87.87	H H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

Level D Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HW220-Z1D 1/20/2012	\$52.54	\$68.91	\$85.27	H H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HW220-Z1DCL 1/20/2012	\$52.29	\$68.53	\$84.77	H H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

Operating Engineer Hazardous Waste Regular Crane, Job Mechanic, Dragline Operator, Boom Truck Operator, Power 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 1/20/2012	\$49.69	\$64.63	\$79.57	H H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

Official Request #: 530
 Requestor: Redford Union Schools
 Project Description: Redford Union High School, Stuckey Center & MacGowan
 Project Number: 094020 & 094022
 County: Wayne

Official Rate Schedule

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Official 2012 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/27/2012

Contract must be awarded by: 7/26/2012

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Operating Engineer Hazardous Waste Regular Crane, Job Mechanic, Dragline Operator, Boom Truck Operator, Power Shovel Operator and Concrete Pump with Boom Operator Level D - Coveralls, safety boots, glasses or chemical splash goggles and hard hats. EN-324-HWRC-Z1D 1/20/2012	1/20/2012	\$50.56	\$65.94	\$81.31	H H H H H H H D Y
Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.					
Operating Engineer Hazardous Waste Regular Crane, Job Mechanic, Dragline Operator, Boom Truck Operator, Power 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 1/20/2012	1/20/2012	\$51.86	\$67.89	\$83.91	H H H H H H H D Y
Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.					
Operating Engineer Hazardous Waste Regular Crane, Job Mechanic, Dragline Operator, Boom Truck Operator, Power 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 1/20/2012	1/20/2012	\$52.81	\$69.31	\$85.81	H H H H H H H D Y
Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.					
Operating Engineer Steel Work Forklift, 1 Drum Hoist EN-324-ef 10/12/2011	10/12/2011	\$55.06	\$72.80	\$90.53	H H D H H H D D Y
Crane w/ 120' boom or longer EN-324-SW120 10/12/2011	10/12/2011	\$57.51	\$76.47	\$95.43	H H D H H H D D Y
Crane w/ 120' boom or longer w/ Oiler EN-324-SW120-O 10/12/2011	10/12/2011	\$58.51	\$77.97	\$97.43	H H D H H H D D Y
Crane w/ 140' boom or longer EN-324-SW140 10/12/2011	10/12/2011	\$58.69	\$78.24	\$97.79	H H D H H H D D Y

Official Request #: 530
 Requestor: Redford Union Schools
 Project Description: Redford Union High School, Stuckey Center & MacGowan
 Project Number: 094020 & 094022
 County: Wayne

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.

Official 2012 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/27/2012

Contract must be awarded by: 7/26/2012

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
Crane w/ 140' boom or longer W/ Oiler	EN-324-SW140-O	10/12/2011	\$59.69	\$79.74	\$99.79	H H D H H H D D Y
Boom & Jib 220' or longer	EN-324-SW220	10/12/2011	\$58.96	\$78.65	\$98.33	H H D H H H D D Y
Crane w/ 220' boom or longer w/ Oiler	EN-324-SW220-O	10/12/2011	\$59.96	\$80.15	\$100.33	H H D H H H D D Y
Boom & Jib 300' or longer	EN-324-SW300	10/12/2011	\$60.46	\$80.90	\$101.33	H H D H H H D D Y
Crane w/ 300' boom or longer w/ Oiler	EN-324-SW300-O	10/12/2011	\$61.46	\$82.40	\$103.33	H H D H H H D D Y
Boom & Jib 400' or longer	EN-324-SW400	10/12/2011	\$61.96	\$83.15	\$104.33	H H D H H H D D Y
Crane w/ 400' boom or longer w/ Oiler	EN-324-SW400-O	10/12/2011	\$62.96	\$84.65	\$106.33	H H D H H H D D Y
Crane Operator, Job Mechanic, 3 Drum Hoist & Excavator	EN-324-SWCO	10/12/2011	\$57.15	\$75.93	\$94.71	H H D H H H D D Y
Apprentice Rates:						
	0-999 hours		\$45.28	\$58.42	\$71.57	
	1,000-1,999 hours		\$47.17	\$61.25	\$75.34	
	2,000-2,999 hours		\$49.04	\$64.07	\$79.09	
	3,000-3,999 hours		\$50.91	\$66.87	\$82.83	
	4,000-4,999 hours		\$52.79	\$69.69	\$86.59	
	5,000 hours		\$54.67	\$72.51	\$90.35	
Crane w/ Oiler	EN-324-SWCO-O	10/12/2011	\$58.15	\$77.43	\$96.71	H H D H H H D D Y
Compressor or Welder Operator	EN-324-SWCW	10/12/2011	\$49.70	\$64.76	\$79.81	H H D H H H D D Y
Hoisting Operator, 2 Drum Hoist, & Rubber Tire Backhoe	EN-324-SWHO	10/12/2011	\$56.51	\$74.97	\$93.43	H H D H H H D D Y
Oiler	EN-324-SWO	10/12/2011	\$48.29	\$62.64	\$76.99	H H D H H H D D Y
Tower Crane & Derrick where work is 50' or more above first level	EN-324-SWTD50	10/12/2011	\$58.24	\$77.57	\$96.89	H H D H H H D D Y

Official Request #: 530

Requestor: Redford Union Schools

Project Description: Redford Union High School, Stuckey Center & MacGowan

Project Number: 094020 & 094022

County: Wayne

Official Rate Schedule

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Tower Crane & Derrick 50' or more w/ Oiler where work station is 50' or more above first level	EN-324-SWTD50-O 10/12/2011	\$59.24	\$79.07	\$98.89	H H D H H H D D Y
Operating Engineer Underground Class I Equipment	EN-324A1-UC1 10/13/2011	\$49.34	\$64.08	\$78.82	H H H H H H H D Y
Apprentice Rates:					
		0-999 hours	\$39.89	\$50.21	\$60.52
		1,000-1,999 hours	\$41.36	\$52.41	\$63.46
		2,000-2,999 hours	\$42.84	\$54.63	\$66.42
		3,000-3,999 hours	\$44.32	\$56.85	\$69.38
		4,000-4,999 hours	\$45.79	\$59.05	\$72.32
		5,000-5,999 hours	\$47.26	\$61.26	\$75.26
Class II Equipment	EN-324A1-UC2 10/13/2011	\$44.61	\$56.99	\$69.36	H H H H H H H D Y
Class III Equipment	EN-324A1-UC3 10/13/2011	\$43.88	\$55.89	\$67.90	H H H H H H H D Y
Class IV Equipment	EN-324A1-UC4 10/13/2011	\$43.31	\$55.04	\$66.76	H H H H H H H D Y
Master Mechanic	EN-324A1-UMM 10/13/2011	\$49.59	\$64.46	\$79.32	H H H H H H H D Y
Painter Painter (8 hours of repaint work performed on Sunday shall be paid time & one half rate)	PT-22-P 10/15/2009	\$39.86	\$52.22	\$64.57	H H D H D D D D Y
Four 10s allowed Monday-Thursday with Friday makeup day if job down due to weather, holiday or other conditions beyond the control of the employer.					
Apprentice Rates:					
		First 6 months	\$27.51	\$33.69	\$39.87
		Second 6 months	\$31.21	\$39.24	\$47.27
		Third 6 months	\$32.45	\$41.10	\$49.75
		Fourth 6 months	\$33.68	\$42.95	\$52.21
		Fifth 6 months	\$34.92	\$44.81	\$54.69
		Final 6 months	\$36.15	\$46.65	\$57.15

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Pipe and Manhole Rehab					
General Laborer for rehab work or normal cleaning and cctv work-top man, scaffold man, CCTV assistant, jetter-vac assistant	TM247 4/4/2012	\$26.85	\$36.17		H H H H H H H H N
Tap cutter/CCTV Tech/Grout Equipment Operator: unit driver and operator of CCTV; grouting equipment and tap cutting equipment	TM247-2 4/4/2012	\$31.35	\$42.92		H H H H H H H H N
CCTV Technician/Combo Unit Operator: unit driver and operator of cctv unit or combo unit in connection with normal cleaning and televising work	TM247-3 4/4/2012	\$30.10	\$41.05		H H H H H H H H N
Boiler Operator: unit driver and operator of steam/water heater units and all ancillary equipment associated	TM247-4 4/4/2012	\$31.85	\$43.67		H H H H H H H H N
Combo Unit driver & Jetter-Vac Operator	TM247-5 4/4/2012	\$31.85	\$43.67		H H H H H H H H N
Pipe Bursting & Slip-lining Equipment Operator	TM247-6 4/4/2012	\$32.85	\$45.17		H H H H H H H H N
Pipefitter					
Pipefitter	PF-636 6/1/2011	\$63.33	\$84.16	\$100.98	H H D H D D D D N
Apprentice Rates:					
1st & 2nd periods		\$26.63	\$34.98	\$41.98	
3rd period		\$28.63	\$37.98	\$45.98	
4th period		\$29.88	\$39.86	\$48.48	
5th period		\$31.13	\$41.73	\$50.98	
6th period		\$32.38	\$43.60	\$53.48	
7th period		\$33.63	\$45.48	\$55.98	
8th period		\$34.63	\$46.98	\$57.98	
9th period		\$35.63	\$48.48	\$59.98	
10th period		\$37.06	\$50.62	\$62.84	

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
Plasterer						
Plasterer	BR1P	11/15/2011	\$44.90	\$67.35	\$89.80	H H H H H H D N
	Apprentice Rates:					
	1st 6 months		\$31.90	\$47.85	\$63.80	
	2nd 6 months		\$33.20	\$49.80	\$66.40	
	3rd 6 months		\$34.50	\$51.75	\$69.00	
	4th 6 months		\$37.10	\$55.65	\$74.20	
	5th 6 months		\$39.70	\$59.55	\$79.40	
	6th 6 months		\$42.30	\$63.45	\$84.60	
Plasterer						
Plasterer	PL67	9/8/2010	\$44.72	\$60.11	\$75.50	H H H X D D D D N
	Apprentice Rates:					
	1st 6 months		\$29.33	\$37.02	\$44.72	
	2nd 6 months		\$30.87	\$39.34	\$47.80	
	3rd 6 months		\$32.41	\$41.64	\$50.88	
	4th 6 months		\$35.49	\$46.26	\$57.04	
	5th 6 months		\$38.56	\$51.16	\$63.76	
	6th 6 months		\$41.64	\$55.49	\$69.34	
Plumber						
Plumber	PL-98	8/18/2009	\$57.58	\$74.45	\$89.31	H H D H D D D D N
	Apprentice Rates:					
	Period 1		\$17.76	\$24.31	\$30.86	
	Period 2		\$17.76	\$24.31	\$30.86	
	Period 3		\$30.79	\$39.88	\$48.96	
	Period 4		\$31.42	\$40.82	\$50.22	
	Period 5		\$32.58	\$42.56	\$52.54	
	Period 6		\$33.73	\$44.28	\$54.84	
	Period 7		\$34.88	\$43.61	\$54.74	
	Period 8		\$36.05	\$47.76	\$59.48	
	Period 9		\$37.20	\$49.49	\$61.78	
	Period 10		\$38.35	\$51.22	\$64.08	

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
Roofer						
Commercial Roofer	RO-149-WOM	8/18/2008	\$48.46	\$62.29	\$76.62	H H D H H H D D N
Straight time is not to exceed ten (10) hours per day or forty (40) hours per week.						
Apprentice Rates:						
	Apprentice 1		\$32.62	\$39.86	\$48.04	
	Apprentice 2		\$36.80	\$44.80	\$53.30	
	Apprentice 3		\$38.22	\$46.93	\$56.14	
	Apprentice 4		\$39.25	\$48.48	\$58.20	
	Apprentice 5		\$40.47	\$50.30	\$60.64	
	Apprentice 6		\$41.87	\$52.40	\$63.44	
Sewer Relining						
Class I-Operator of audio visual CCTV system including remote in-ground cutter and other equipment used in conjunction with CCTV system.	SR-I	10/14/2011	\$41.07	\$55.60	\$70.12	H H H H H H H D N
Class II-Operator of hot water heaters and circulation system; water jetters; and vacuum and mechanical debris removal systems and those assisting.	SR-II	10/14/2011	\$39.54	\$53.30	\$67.06	H H H H H H H D N
Sheet Metal Worker						
Sheet Metal Worker	SHM-80	1/19/2012	\$58.32	\$74.80	\$91.28	H H D H D D D D Y
A 4 10 schedule may be worked, 4 consecutive days Monday thru Friday.						
Apprentice Rates:						
	1st & 2nd Periods Indentured before 6-1-11		\$40.96	\$49.32	\$57.69	
	3rd & 4th Periods Indentured before 6-1-11		\$42.21	\$51.20	\$60.19	
	5th & 6th Periods Indentured before 6-1-11		\$43.51	\$53.16	\$62.79	
	7th & 8th Periods Indentured before 6-1-11		\$46.05	\$56.96	\$67.87	
	9th & 10th Periods Indentured before 6-1-11		\$48.63	\$60.83	\$73.03	
	1st & 2nd Periods Indentured AFTER 6-1-11		\$36.14	\$43.56	\$50.97	
	3rd & 4th Periods Indentured AFTER 6-1-11		\$37.79	\$46.04	\$54.27	
	5th & 6th Periods Indentured AFTER 6-1-11		\$39.44	\$48.51	\$57.57	
	7th & 8th Periods Indentured AFTER 6-1-11		\$41.08	\$50.97	\$60.85	

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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Architectural Sheet Metal Worker	SHM-80-SD	2/15/2012	\$40.85	\$53.00	\$65.15 H H H H H H H D Y
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Sprinkler Fitter					
Sprinkler Fitter	SP 704		\$61.92	\$82.20	\$102.48 H H D H D D D D Y
4 ten hour days allowed Monday-Friday only in those weeks containing a holiday and the preceding or succeeding the holiday week					
		1/23/2012			

Apprentice Rates:

1st Period	\$25.45	\$33.22	\$41.00
2nd Period	\$40.54	\$49.29	\$58.04
3rd Period	\$42.48	\$52.20	\$61.92
4th Period	\$44.42	\$55.11	\$65.80
5th Period	\$46.37	\$58.04	\$69.70
6th Period	\$48.31	\$60.94	\$73.58
7th Period	\$50.26	\$63.87	\$77.48
8th Period	\$52.20	\$66.78	\$81.36
9th Period	\$54.14	\$69.69	\$85.24
10th Period	\$56.09	\$72.62	\$89.14

Terrazzo

Terrazzo Finisher	BR1-TRF	8/11/2009	\$41.84	\$52.56	\$63.28 H H D H D D D D Y
A 4 ten workweek may be worked Monday thru Thursday or Tuesday thru Friday.					

Apprentice Rates:

Level 1	\$18.11	\$24.00	\$29.89
Level 2	\$19.25	\$25.71	\$32.17
Level 3	\$25.69	\$32.40	\$39.12
Level 4	\$27.09	\$34.50	\$41.92
Level 5	\$28.53	\$36.15	\$43.77
Level 6	\$30.07	\$38.06	\$46.06
Level 7	\$31.68	\$39.73	\$47.79
Level 8	\$33.10	\$41.42	\$49.74

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Terrazzo Worker A 4 ten workweek may be worked Monday thru Thursday or Tuesday thru Friday.	BR1-TRW 8/11/2009	\$47.31	\$60.77	\$74.22	H H D H D D D D Y

Apprentice Rates:

Level 1	\$23.92	\$31.19	\$38.47
Level 2	\$26.83	\$34.85	\$42.87
Level 3	\$31.79	\$40.02	\$48.26
Level 4	\$34.40	\$43.55	\$52.69
Level 5	\$36.55	\$45.94	\$55.33
Level 6	\$40.04	\$51.10	\$62.16
Level 7	\$40.67	\$51.90	\$63.14
Level 8	\$41.56	\$53.24	\$64.92

Tile

Tile Finisher A 4 ten workweek may be worked Monday thru Thursday or Tuesday thru Friday.	BR1-TF 8/11/2009	\$41.39	\$51.89	\$62.38	H H D H D D D D Y
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Apprentice Rates:

Level 1	\$18.11	\$24.00	\$29.89
Level 2	\$19.25	\$25.71	\$32.17
Level 3	\$25.69	\$32.40	\$39.12
Level 4	\$27.09	\$34.50	\$41.92
Level 5	\$28.53	\$36.15	\$43.77
Level 6	\$30.07	\$38.06	\$46.06
Level 7	\$31.68	\$39.73	\$47.79
Level 8	\$33.10	\$41.42	\$49.74

Tile Layer A 4 ten workweek may be worked Monday thru Thursday or Tuesday thru Friday.	BR1-TL 8/11/2009	\$47.26	\$60.69	\$74.12	H H D H D D D D Y
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Apprentice Rates:

Level 1	\$23.92	\$31.19	\$38.47
Level 2	\$26.83	\$34.85	\$42.87
Level 3	\$31.79	\$40.02	\$48.26
Level 4	\$34.40	\$43.55	\$52.69
Level 5	\$36.55	\$45.94	\$55.33
Level 6	\$40.04	\$51.10	\$62.16
Level 7	\$40.67	\$51.90	\$63.14
Level 8	\$41.56	\$53.24	\$64.92

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Truck Driver					
on all trucks of 8 cubic yard capacity or less	TM-RB1 1/26/2011	\$38.33	\$36.94		H H H H H H H Y
of all trucks of 8 cubic yard capacity or over	TM-RB1A 1/26/2011	\$38.43	\$37.09		H H H H H H H Y
on euclid type equipment	TM-RB1B 1/26/2011	\$38.58	\$37.31		H H H H H H H Y
Underground Laborer Open Cut, Class I Construction Laborer					
	LAUC-Z1-1 10/13/2011	\$35.82	\$46.40	\$57.01	H H H H H H H D Y
Apprentice Rates:					
		0-1,000 work hours	\$31.04	\$39.23	\$47.45
		1,001-2,000 work hours	\$32.00	\$40.67	\$49.37
		2,001-3,000 work hours	\$32.95	\$42.10	\$51.27
		3,001-4,000 work hours	\$34.86	\$44.96	\$55.09
Underground Laborer Open Cut, Class II					
Mortar and material mixer, concrete form man, signal man, well point man, manhole, headwall and catch basin builder, guard rail builders, headwall, seawall, breakwall, dock builder and fence erector.	LAUC-Z1-2 10/13/2011	\$35.93	\$46.60	\$57.26	H H H H H H H D Y
Apprentice Rates:					
		0-1,000 work hours	\$31.12	\$39.38	\$47.64
		1,001-2,000 work hours	\$32.08	\$40.82	\$49.56
		2,001-3,000 work hours	\$33.05	\$42.27	\$51.50
		3,001-4,000 work hours	\$34.97	\$45.15	\$55.34
Underground Laborer Open Cut, Class III					
Air, gasoline and electric tool operator, vibrator operator, drillers, pump man, tar kettle operator, bracers, rodder, reinforced steel or mesh man (e.g. wire mesh, steel mats, dowel bars, etc.), cement finisher, welder, pipe jacking and boring man, wagon drill and air track operator and concrete saw operator (under 40 h.p.), windlass and tugger man, and directional boring man.	LAUC-Z1-3 10/13/2011	\$35.98	\$46.67	\$57.36	H H H H H H H D Y
Apprentice Rates:					
		0-1,000 work hours	\$31.16	\$39.44	\$47.72
		1,001-2,000 work hours	\$32.12	\$40.88	\$49.64
		2,001-3,000 work hours	\$33.09	\$42.33	\$51.58
		3,001-4,000 work hours	\$35.02	\$45.23	\$55.44

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Underground Laborer Open Cut, Class IV					
Trench or excavating grade man.	LAUC-Z1-4 10/13/2011	\$36.06	\$46.79	\$57.52	H H H H H H D Y
Apprentice Rates:					
0-1,000 work hours		\$31.22	\$39.53	\$47.84	
1,001-2,000 work hours		\$32.19	\$40.99	\$49.78	
2,001-3,000 work hours		\$33.16	\$42.44	\$51.72	
3,001-4,000 work hours		\$35.09	\$45.33	\$55.58	
 Underground Laborer Open Cut, Class V					
Pipe Layer	LAUC-Z1-5 10/13/2011	\$36.12	\$46.88	\$57.64	H H H H H H D Y
Apprentice Rates:					
0-1,000 work hours		\$31.26	\$39.59	\$47.92	
1,001-2,000 work hours		\$32.24	\$41.06	\$49.88	
2,001-3,000 work hours		\$33.21	\$42.51	\$51.82	
3,001-4,000 work hours		\$35.15	\$45.43	\$55.70	
 Underground Laborer Open Cut, Class VI					
Grouting man, top man assistant, audio visual television operations and all other operations in connection with closed circuit television inspection, pipe cleaning and pipe relining work and the installation and repair of water service pipe and appurtenances.	LAUC-Z1-6 10/13/2011	\$33.57	\$43.06	\$52.54	H H H H H H D Y
Apprentice Rates:					
0-1,000 work hours		\$29.35	\$36.73	\$44.10	
1,001-2,000 work hours		\$30.20	\$38.00	\$45.80	
2,001-3,000 work hours		\$31.04	\$39.26	\$47.48	
3,001-4,000 work hours		\$32.73	\$41.79	\$50.86	
 Underground Laborer Open Cut, Class VII					
Restoration laborer, seeding, sodding, planting, cutting, mulching and topsoil grading and the restoration of property such as replacing mail boxes, wood chips, planter boxes, flagstones etc.	LAUC-Z1-7 10/13/2011	\$30.19	\$37.99	\$45.78	H H H H H H D Y
Apprentice Rates:					
0-1,000 work hours		\$26.82	\$32.93	\$39.04	
1,001-2,000 work hours		\$27.49	\$33.93	\$40.38	
2,001-3,000 work hours		\$28.17	\$34.95	\$41.74	
3,001-4,000 work hours		\$29.52	\$36.98	\$44.44	

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SECTION 03 45 00

ARCHITECTURAL PRECAST CONCRETE

PART 1: GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings, Details of Construction and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification Sections, apply to work specified in this section.

1.02 SUMMARY

- A. Section includes:

1. Furnish architectural precast cap at (brick) retaining wall. Furnish shapes as detailed.

1.03 REFERENCE STANDARDS

- A. The following specifications and standards are incorporated by reference. Materials and operations shall comply with requirements the specified issue of published reference. Where provisions of these Project Specifications are at variance with those reference specifications, the maximum criteria or requirements shall govern.

1. ACI 301-99 - Specifications for Structural Concrete for Buildings
2. ACI 318-99 - Building Code Requirements for Structural Concrete.

- B. The following documents, while not a part of these specifications except for sections specifically referred to herein, are recognized acceptable practices:

1. ACI 315-99 – Details and Detailing Reinforced Concrete Structures.
2. ACI 347 - Recommended Practice for Concrete Formwork.
3. PCI MNL-117 - Manual for Quality Control for Plants and Production of Architectural Precast Concrete Products.

1.04 QUALITY ASSURANCE

- A. Manufacturers shall have minimum of five (5) years production experience in precast concrete work of quality and scope required on this project.
- B. Manufacturing plant shall be certified by the PCI Plant Certification Program in categories A1 and AT at the time of bidding.
- C. Employ and pay for the services of an independent testing laboratory to perform the specified Source Quality Control.

1.05 SUBMITTALS

- A. Submit in accordance with Section 01 33 00.

1. Shop Drawings

- a. Erection drawings: Include member piece marks with size and shape of each member; plans/elevations showing all products furnished by supplier; sections/details showing connections and cast in items; joints

and openings between members and structure; description of all loose cast-in field hardware; locations of field installed anchors, and all dead, live and other applicable design loads.

- b. Production drawings. Include elevation view of each member, sections/details to show quantity and position of reinforcing, anchors, and inserts, handling devices, dimensions and finishes, joint and connection details and methods for storage and transportation.
2. Samples: Submit samples representative of finished exposed facing showing typical range of color and texture.
 - a. Adjust color and texture as directed and resubmit until acceptable to Architect.
 - b. Sample size: Approximately 24 inches square and of appropriate thickness.

1.06 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Delivery and Handling

1. Handle and transport units in a position consistent with their shape and design in order to avoid stresses which would cause cracking or damage.
2. Lift or support units only at the points shown on the shop drawings.
3. Place nonstaining resilient spacers of even thickness between each unit.
4. Support units during shipment on non-staining shock-absorbing material.
5. Do not place units directly on ground.

B. Storage at Jobsite

1. Store and protect units to prevent contact with soil, staining, and physical damage.
2. Store units, unless otherwise specified, with nonstaining, resilient supports located in same positions as when transported.
3. Store units on firm, level and smooth surfaces.
4. Place stored units so that identification marks are discernible, and so that product can be inspected.

PART 2: PRODUCTS

2.01 MATERIALS

A. Concrete

1. Portland cement:
 - a. ASTM C 150, Type 1.
 - b. For exposed surfaces use same brand, type and source of supply throughout.
 - c. Color mix: See Material Finish/Color Schedule, on Architectural Drawings.
2. Air entraining agent: ASTM C 260.
3. Water reducing, retarding, accelerating, and high range water reducing admixtures: ASTM C494 or C1017.

4. Aggregates:
 - a. Provide fine and coarse aggregates for each type of exposed finish from a single source (pit or quarry) for entire job. They shall be clean, hard, strong, durable and inert, free of staining or deleterious material.
 - b. ASTM C 33 or C 330.
 - c. Material and color: See Material Finish/Color Schedule, on Architectural Drawings.
5. Water: Free from deleterious matter that may interfere with the color, setting or strength of the concrete.

B. Cast-In Anchors and Loose Supports

1. Materials:
 - a. Carbon steel bars: ASTM A306, grade 65.
 - b. Structural steel: ASTM A36.
 - c. Stainless steel: ASTM A666, Type 304.
 - d. Bolts: ASTM A307 or A325.
 - e. Welded headed studs: AWS D1.1, Chapter 4, Part F.
 - f. Deformed bar anchors: ASTM A496 or A706
2. Finish non-corrosive environments: Shop primer - FS TT-P-86, oil base paint, type 1, or SSPC-Paint 14, or manufacturer's standard.
3. Finish corrosive environments: Hot-dipped galvanized ASTM A123, or cadmium coated ASTM B766, Type II or III. Touch up for galvanized members: Materials and methods per ASTM A780.

2.02 MIXES

A. Concrete Properties

1. Water-cement ratio: Maximum 40 lbs. of water to 100 lbs. of cement.
2. Air entrainment: Amount produced by adding dosage of air entraining agent that will provide the air content given in Table 4.1.1 of ACI 318 for severe exposure.
3. Coloring agent: Not more than 10% of cement weight.
4. 28 day compressive strength: Minimum of 5000 psi when tested by 6 x 12 or 4 x 8 in. cylinders; or minimum 6250 psi when tested on 4 in. cubes.

2.03 FABRICATION

- A. Manufacturing procedures shall be in general compliance with PCI MNL-117.
- B. Finishes: See Material Finish/Color Schedule, on Architectural Drawings.
- C. Cover
 1. Provide at least 3/4 in. cover for reinforcing steel.
 2. Do not use metal chairs, with or without coating, in the finished face.
 3. Provide embedded anchors, inserts, plates, angles and other cast-in items with sufficient anchorage and embedment for design requirements.
- D. Curing: Cure precast units until 2000 psi minimum compressive strength has developed before removing the units

from the form, unless greater strength is required for stripping.

E. Panel Identification

1. Mark each precast panel to correspond to identification mark on shop drawings for panel location.
2. Mark each precast panel with date cast.

F. Acceptance: Architectural precast units that do not meet the color and texture range or dimensional tolerances may be rejected at the option of the Architect, if they cannot be satisfactorily corrected.

PART 3: EXECUTION

3.01 INSTALLTION

- A. Refer to Section 04 20 00 for installation.

END OF SECTION 03 45 00

SECTION 12 90 00

BUILDING ACCESSORIES

PART 1: GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings, Details of Construction and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification Sections, apply to work specified in this section.

1.02 SCOPE

- A. Section includes:

1. Recessed Entrance mats as shown on Drawings.

1.03 SUBMITTALS

- A. Submit in accordance with Section 01 33 00.

1. Product data for each type of accessory specified, with installation instructions for each unit built-in or connected to other construction. Include methods of installation for each type of substrate.
2. Shop drawings showing installation and exact length of units required.
3. Samples for initial selection purposes consisting of manufacturer's standard size samples showing full range of colors.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to project site in original factory wrappings and containers, clearly labeled with identification of manufacturer, brand name, and lot number. Store materials in original undamaged packages and containers, inside well-ventilated area protected from weather, moisture, soiling, extreme temperatures, humidity; laid flat, blocked off ground to prevent sagging and warping.
- B. Comply with instructions and recommendations of manufacturer for special delivery, storage, and handling requirements.

1.05 SEQUENCE AND SCHEDULING

- A. Sequence accessory installation with other work to minimize possibility of damage and soiling during remainder of construction period.

PART 2: PRODUCTS

2.01 ENTRANCE MAT

- A. Products by C/S Group, Muncy Pennsylvania are specified. Products by Afco. Pawling are acceptable.
- B. Model: G4 Pedimat, HD Monotuft HD Carpet, Aluminum Level Base Frame, 3/4" deep with roll back feature.
- C. Custom size and shape, provide template to verify size and shape prior to production.

- D. Provide full perimeter custom size aluminum frame: 1" deep, mill finish.
- E. Color: See Material finish/Color Schedule, on Drawings.

PART 3: EXECUTION

3.01 INSTALLATION

- A. Verify that materials are those specified before installing.
- B. Install accessories after other finishing operations, including painting, have been completed.
- C. Clean and polish exposed surfaces, using materials and methods recommended by the manufacturer.

3.02 ENTRANCE MAT

- A. Install per manufacturers instructions.

3.03 PROTECTION

- A. Protect accessories against damage during remainder of construction period, complying with manufacturer's directions.
- B. Installed work shall be in true line, level, plumb, in correct relation to adjoining work, and exact height required above floor.
- C. Prior to Substantial Completion of this work, test the installation for proper operation, and make ready for operation by the Owner.

3.04 OWNER INSTRUCTIONS

- A. Instruct Owner's personnel in the proper operation of this installation.

END OF SECTION 12 90 00

SECTION 33 46 13

PLANTER DRAINAGE

PART 1: GENERAL

1.01 APPLICABLE DOCUMENTS

- A. Bidding Requirements, Conditions of the Contract and pertinent portions of Sections in Division One of these Specifications apply to the Work of this Section.

1.02 SUMMARY

- A. Furnish and install drain tile, pea gravel, and filter fabric at MacGowan Elementary Planter.

1.03 RELATED WORK SPECIFIED ELSEWHERE

- A. Refer to Division 7 sections for coordination of placement of waterproofing and foundation insulation.

1.04 SUBMITTALS

- A. Manufacturer's descriptive literature and recommended method of installation.

1.05 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in manufacturer's original unopened protective packaging.
- B. Store materials to prevent damage.
- C. Protect materials during delivery and installation to prevent damage.

PART 2: PRODUCTS

2.01 DRAIN TILE

- A. Advanced Drainage Systems, Inc. corrugated perforated and non-perforated polyethylene tubing drain tile, 4" diameter. Provide couplings, tees as required for complete installation.

2.02 MISCELLANEOUS

- A. Aggregate:
 - 1. Fine filter aggregate shall be a free draining mineral product, excluding crushed carbonate quarry rock, crushed concrete, and salvaged bituminous mixture, and meeting the following gradation requirements:

<u>Sieve Size</u>	<u>Percent Passing</u>
3/8 inch	100
#4	90-100
#10	45-90
#40	5-35
#200	0-3

- 2. Provide minimum 2½ cubic feet of aggregate per lineal foot of drain tile.

- B. Filter Fabric: Mirafi, Inc. 140N.
- C. Pea Rock Gravel; clean washed gravel

PART 3: EXECUTION

3.01 INSPECTION

- A. Examine areas to receive foundation drainage for completion of excavation to elevations and slopes, and obstructions which would interfere with installation.
- B. Begin work only when conditions are corrected satisfactorily.

3.02 INSTALLATION

- A. Re-install drains to pass through existing wall sleeves.
- B. Install drain tile per manufacturer's written instruction.
- C. Plug end tiles with non-perforated end cap.
- D. Install clean washed pea gravel to give minimum 12" cover over drain tile.
- E. Wrap gravel with filter fabric prior to placement of additional backfilling material.

3.03 INSPECTION

- A. Receive acceptance by Architect of gravel and filter fabric installation before covering work.

END OF SECTION 33 46 13