REQUEST FOR QUOTATION	TROY SCHOOL DISTRICT	REQUISITION
No. 9671		
DUE DATE NO LATER THAN 4/29/10 3 p.m.	1140 RANKIN, TROY, MICHIGAN 48083 248-823-4052 FAX: 248-823-4077	DATE 4/13/10

REQUEST FOR QUOTE – NOT AN ORDER

THIS FORM MUST BE UTILIZED WHEN RESPONDING TO THIS REQUEST
BID ENVELOPE ENCLOSED

THE RFQ NUMBER MUST APPEAR ON ALL QUOTATIONS AND RELATED CORRESPONDENCE, THIS IS NOT AN ORDER

Quantity	DESCRIPTION	UNIT PRICE	AMOUNT
	Please provide us with your bid to furnish the Troy School District with PAVING for various District locations per the attached specifications. Each bid shall be accompanied by a certified check, cashier's check, money order or bid bond made payable to the Troy School District in an amount not less than five percent (5%) of the base bid as a Bid guarantee. The successful bidder shall provide a Labor and Material Payment Bond and a Performance Bond, each in the amount of one hundred percent (100%) of the contract amount.		

FACSIMILE BID IS NOT ACCEPTABLE

Bids will not be accepted if submitted after the deadline specified (local time) in the advertisement to bid or in the information to bidders. The late submission of a bid makes the bid nonrepsonsive and is a material defect which shall not be waived by the Board of Educations. Delays in the mail will not be considered. All Late bids in the mail Will be returned to the bidder unopened.

Proposal for the submission of alternatives by vendors will be accepted and reviewed. However, if any substitution or departure is not clearly noted and described, it will be understood that the bid intends to exactly meet the specifications.

The Board of Education shall be the sole judge as to whether the proposed goods are “equal” or “approved”. Quotations must be mailed or delivered to the Purchasing Office, 1140 Rankin, Troy, MI 48083 no later than 3 p.m. on the date shown above. Michigan State Sales and Use Taxes and Federal Excise Taxes do not apply unless otherwise indicated. Exemption certificates will be furnished when necessary. This request imposes no obligations on the buyer. The Board of Education reserves the right to accept or reject any or all bids or to split awards by items or to accept bids, which will best serve the Board of Education.

THIS AREA MUST BE FILLED IN

DELIVERY TIME	PRICES FIRM FOR	NAME OF COMPANY	TELEPHONE NO.
TERMS		NO. & STREET	FAX #
FOB DELIVERED	ALL DELIVERY CHARGES MUST BE INCLUDED IN PRICES SHOWN	CITY, STATE & ZIP CODE	E-MAIL
CONTACT PERSON (PLEASE PRINT)		SIGNATURE	DATE

AFFIDAVIT OF BIDDER

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

List any Familial Relationships:

BIDDER:

_____

By: _____

Its: _____

STATE OF MICHIGAN)
)ss.
COUNTY OF _____)

This instrument was acknowledged before me on the _____ day of _____, 2010, by _____.

_____

, Notary Public

_____County, Michigan

My Commission Expires: _____

Acting in the County of: _____

ADVERTISEMENT TO BID

The **Troy School District** is seeking bids for Paving for various District locations. Bid Proposals will be received by the Troy School District, 1140 Rankin, Troy, MI 48083 delivery or mail, to the attention of Frank Lams by 3:00 p.m. local time on **April 29, 2010**. Proposals must be sealed with Bidder's name on the outside of the envelope and designated as follows:

Sealed Proposal
Paving
Bid Package No. 9671
Contractor Name, Address, Phone Number

Proposals shall be based on the requirements set forth in this bid package specification. Any resultant contract shall be based on these specifications.

Accepted Bidders will be required as a condition precedent to award of Contract, to furnish in the amount of 100% of the contract price, satisfactory Performance Bond and Payment bond and Certificates of Insurance as required.

Unless otherwise specifically set forth, this Project is subject to state sales and/or use taxes and Bidder is required to include such taxes in its Bid Proposal.

Bid proposals will be publicly opened immediately following receipt of bids by the Troy School District, and evaluated by Owner with awards subsequently made by Troy School District.

The Owner shall not open, consider, or accept a Bid Proposal that is received after the date and time specified for bid submission in this Advertisement for Bids.

Bidding Documents will be available for examination and distribution on or after April 13, 2010. Examination may be made at the following locations:

- Troy School District, Purchasing Dept, 1140 Rankin, Troy, MI 48083
  Bid specifications will also be available for free download at the District's website:
  www.Troy.k12.mi.us/Purchasing/Items_for_bid.htm
- Construction Association of Michigan, 43636 Woodward Ave., Bloomfield, MI 48302

Bid proposals shall be on forms furnished by **Troy School District**. Bidders will be required to submit with their Bid Proposals, a notarized Familial Relationship Disclosure Form, a Bid Security by a qualified surety authorized to do business in the State of Michigan where the Project is located, an OSHA Form 300 for the most recent completed year, their worker's compensation Experience Modification Rate (EMR) factor, and any other information required in the Instructions to Bidders. Bidder shall not withdraw a Bid Proposal for a period of **ninety (90)** days after date for receipt of Bid Proposals.

The right to accept or reject any or all Bid Proposals, either in whole or in part, to waive any informalities or irregularities therein and to award the contract to other than the low bidder is reserved by Troy School District.

All Bid Proposals shall be accompanied by the sworn and notarized statement disclosing any familial relationship that exists between the owner or any employee of the bidder and any member of the School Board or the superintendent of the School District. Bid proposals that do not include this sworn notarized disclosure statement will not be considered accepted.

The successful bidder and its subordinate parties shall comply with the Prevailing Wage Requirements for all work as required by the State of Michigan Public Act 166 Dated 1965 As Amended.

END OF ADVERTISEMENT

TROY SCHOOL DISTRICT
PAVING
BID 9671

BID SECURITY

A. Bid security in the form of a bid bond issued by a qualified surety, certified check or cashier's check in the amount of five percent (5%) of the Base Bid amount will be required at the time of submission of the Bid Proposal. Bid bonds shall be duly executed by the bidder, as principal and by a surety that is properly licensed and authorized to do business in the state in which the Work is to be performed. All sureties providing bonds for this Project must be listed in the latest version of the Department of Treasury's Circular 570, entitled "Companies Holding Certificates of Authority as Acceptable Sureties on Federal bonds and as Acceptable Reinsuring Companies", with the bond amount less than or equal to the underwriting limitation, and/or have an A.M. best rating of A- or better.

B. Bid bond shall pledge that the Bidder, with the understanding that if its Bid Proposal is accepted, will enter into the Agreement with Troy School District for any of the Bid Category(ies) accepted from its Bid Proposal and will, if required, furnish performance and payment bonds covering the faithful performance of the Agreement and the payment of all obligations arising there under. The attorney-in-fact, who signs the surety bond, must submit along with the bond, a certified and effectively dated copy of his/her power of attorney.

C. Bid bond form AIA Document A310 is approved for use on this Project.

D. The bid security obligees shall be **Troy School District** and the amount of the bid security shall become their property in the event that the Bidder fails, within Sixty (60) days of notice of award or receipt of the Agreement form, to execute the Agreement, and deliver the performance and payment bonds as described. In such case, the bid security shall be forfeited to Troy School District as liquidated damages, not as a penalty.

E. The Owner will have the right to retain the bid security(ies) of Bidders to whom an award is being considered until either (a) the Agreement has been executed and bonds, if required, have been furnished, or (b) the specified time has elapsed so that Bid Proposals may be withdrawn, or (c) all Bid Proposals have been rejected.

F. Bid security will be returned to the successful bidders after the Agreement has been executed, and acceptance of required performance and payment bonds. The bid security of Bidders that are not under consideration for award of the Agreement will be returned to those Bidders.

SUBMISSION OF BIDS

A. All copies of the Bid Proposal, the bid security and any other documents required to be submitted with the Bid Proposal shall be enclosed in a sealed opaque envelope. The envelope shall be addressed to the party receiving the bids and shall be identified with the Project name, the bidder's name and address, if applicable, the designated portion of the Work for which the Bid Proposal is submitted. If the Bid Proposal is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation "SEALED BID ENCLOSED" on the face of the envelope.

B. Bid Proposals shall be deposited at the designated location prior to the time and date for receipt of Bid Proposals indicated in the Advertisement to Bid, or any extension thereof made by Addendum. Bid Proposals received after the date and time for receipt of bids will be returned unopened.

C. The Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bid Proposals.

D. Oral, telephonic, facsimile, emailed or telegraphic Bid Proposals or bid securities are invalid and will not receive consideration.

E. Bid Proposals will only be accepted for individual Bid Categories. Bidders are required to bid an entire Bid Category. Bidders may bid more than one Bid Category. Combined bids covering several Bid Categories may not be accepted unless separate bid amounts are listed for each Bid Category making up the combined bid amount. The amount for a combined bid, however, need not be equal in amount to the total of the individual category bids.

MODIFICATION OR WITHDRAWAL OF BID PROPOSAL

A. A Bid Proposal may not be modified, withdrawn or canceled by the Bidder after the stipulated time period and date designated for the receipt of Bid Proposals, and each Bidder so agrees in submitting its Bid.

B. Prior to the time and date designated for receipt of Bid Proposals, any Bid Proposal submitted may be modified or withdrawn by notice to the party receiving Bid Proposals at the place designated for their receipt. Such notice shall be in writing over the signature of the Bidder.

C. Withdrawn Bid Proposals may be submitted up to the time designated for the receipt of bids provided that they are then fully in conformance with these Instructions to Bidders.

D. Bid security under B. or C., above shall be in an amount for the Base Bid as modified or resubmitted.

CONSIDERATION OF BIDS

OPENING OF BIDS

A. Bid Proposals received on time will be open publicly.

B. Bid Proposals shall be held open and irrevocable for **Ninety (90)** days after the receipt of bids.

REJECTION OF BIDS

A. **Troy School District** shall have the right to reject any or all bid Proposals and to reject a Bid Proposal not accompanied by the required bid security or by other information required by the Bidding Documents, or to reject a Bid Proposal which is in any way incomplete or irregular.

B. Bid Proposals are considered irregular and may be rejected for any of the following reasons unless otherwise provided by law:

1. If Bid Proposal Form furnished is not used or is altered.
2. If there are unauthorized additions, qualified or conditional Bid Proposals, or irregularities of any kind which may make the Bid Proposal incomplete, indefinite, or ambiguous as to its meaning.
3. If Bidder adds any provisions reserving right to accept or reject any award, or enter into the Agreement pursuant to an award.
4. If Unit or Lump Sum prices or Alternates contained in the Bid Proposal are obviously unbalanced either in excess of, or below, reasonable cost analysis values.
5. If Bidder fails to complete the Bid Proposal Form where information is requested so the Bid Proposal form cannot be properly evaluated.
6. Bidder is deemed to not be the Lowest Responsive, Responsible Bidder by definition and prevailing statutes.
7. Bidder does not submit with its Bid Proposal a sworn and notarized statement of Familial Disclosure.

ACCEPTANCE OF BID (AWARD)

A. It is the intent of the **Troy School District** to award the Agreement to the Lowest Responsive and Responsible Bidder provided the Bid Proposal has been submitted in accordance with the requirements of the bidding Documents and does not exceed the funds available. **Troy School District** shall have the right to waive any informality or irregularity in any bid Proposal received and to accept Bid Proposals which, in its judgment, are in its own best interest which includes not awarding to the low bidder. **Troy School District** reserves the right to reject any bid Proposal in its sole discretion except where otherwise provided by law.

B. **Troy School District** shall have the right to accept any Alternates in any order or combination and to determine the low bidder on the basis of the sum of the Base Bid, Voluntary Alternates and Alternates accepted.

INSURANCE REQUIREMENTS

As a condition of performing work under the Agreement, Contractor will keep in force, at all times during performance of the Work, policies of insurance covering all Basic Insurance Requirements and any applicable Supplemental Insurance Requirements. The requirements identified below are minimum requirements. If the Agreement or other Contract Documents impose additional or higher standards, contractor shall meet those as well. Where a Controlled Insurance Program ("CIP") is specified in the Contract Documents, these insurance requirements shall not apply to coverage supplied by the CIP, but shall apply to coverage which Contractor is required to carry outside the scope of the CIP.

Basic Insurance Requirements
Workers' Compensation covering Contractor's statutory obligations in the State(s) in which the Work is to be performed or Federal statutory obligations, if applicable to the Project and Employers' Liability insurance with limits of liability of $1,000,000 per accident. Where applicable, a US Longshore and Harborworker's Compensation Act endorsement must be included.

If Contractor employs the services of leased employees for the Work or for a portion of the Work, it will be required to submit evidence, to the satisfaction of the Troy School District, that such leased employees are fully covered by the minimum limits of Workers' Compensation and Employers' Liability Insurance. Such evidence shall include, but not be limited to, submission of the applicable leasing agreement.

Automobile Liability insurance with the limit of $1,000,000 per accident covering Contractor's owned, non-owned and hired automobiles.

. Commercial General Liability Insurance written on the 1988 ISO OCCURRENCE policy form or subsequent versions with the limits of liability as follows:

General Aggregate	$2,000,000
Products-Completed Operations Aggregate	$2,000.000
Personal/Advertising Injury	$2,000,000
Each Occurrence	$2,000.000

This coverage shall include coverage for premises-operations, independent contractors' protective products and completed operations, personal injury and broad form property damage (including coverage for explosion, collapse, and underground hazards), and Contractual Liability protection with respect to Contractor's indemnification obligations under the Contract Documents. Products-completed operations coverage must be maintained for at least two years after final completion of the Project.

General Provisions

Every policy must be written by an insurance company licensed in the state of Michigan and is reasonably acceptable to the Troy School District.

For Employer's Liability, Commercial General Liability and Automobile Liability may be attained by a combination of an underlying policy with an umbrella or excess liability policy.

The Troy School District shall be endorsed as additional insureds on Contractor's liability insurance (including general liability, excess liability, automobile liability and pollution liability, where applicable, with respect to liability arising out of activities performed by or on behalf of Contractor. The coverage provided by the additional insured endorsement shall be at least as broad as the Insurance Service Office, Inc.'s Additional insured, Form B CG 20 10 11 85 or CG 20 26 11 85. Forms that do not provide additional insured status for completed operations will not be accepted.

Contractor will furnish, before any work is started, certificates of insurance showing the required coverage Receipt by Troy School District of a non-conforming certificate of insurance without objection, or Troy School District's failure to collect a certificate of insurance, shall not waive or alter Contractor's duty to comply with the insurance requirements. Modifications to these insurance will not be effective unless made in a writing executed by an authorized representative of the Troy School District. Upon written request by Troy School District, contractor will provide copies of its insurance policies.

Evidence of the required insurance is to be provided to Troy School District on ACORD Certificate Form 25-S and must indicate:

Any coverage exclusions or deviations from the 1988 ISO commercial general liability form or subsequent versions;

Best's rating for each insurance carrier at A minus VII or better;

That the issuing insurance company will provide thirty (30) days written notice of cancellation to the certificate holder and the words “endeavor to” and “but failure to mail such notice shall impose no obligation or liability of any kind upon the company, its agents or representatives” do not apply or have been removed;

That additional insured endorsements have been provided as required under the Contract Documents;

and

Any deductibles over $10,000 applicable to any coverage.

All coverage must be primary and not excess over or contributory with any other valid, applicable and collectible insurance in force for Troy School District, or other insureds.

Contractor will provide full coverage for all of Contractor’s equipment, property and tools used in the Work.

Contractor shall waive, and shall require (by endorsement or otherwise) its insurers providing the coverage required by these insurance requirements to waive, subrogation rights against Troy School District, and all other additional insureds for losses and damages incurred and/or paid under the insurance policies required by these insurance requirements or other insurance applicable to Contractor or its Subordinate Parties, and will include this same requirement in contracts with its Subordinate Parties. If the policies of insurance referred to in this paragraph require an endorsement to provide for continued coverage where there is a waiver of subrogation, the owners of each policies will cause them to be so endorsed.

Contractor will send or fax a copy of these insurance requirements to its agent when an insurance certificate is requested to assure that the policies comply with the insurance requirements.

If Contractor requires its Subordinate Parties to provide additional insured endorsements in favor of Contractor, those endorsements shall be extended to Troy School District and all other required additional insureds.

Contractor’s duty to provide the insurance coverage set forth in these insurance requirements is a severable obligation from Contractor’s indemnification obligations under the Contract Documents. Nothing in these insurance requirements shall be deemed to limit Contractor’s liability under the Agreement.

QUESTIONS

All questions regarding this bid must be received by the Purchasing Department **in writing** via email (adeleo2@troy.k12.mi.us) or fax (248-823-4077) no later than **Tuesday, April 20, 2010** at 12:00 noon. All questions will be responded to by an issued Addendum posted to our website no later than April 26, 2010. www.troy.k12.mi.us/purchasing/items_out_for_bid.htm

LAWNS AND GRASSES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This Section includes the following:

1. Seeding

B. Related Sections include the following:

1. Division 2 Section "Site Clearing" for topsoil stripping and stockpiling.
2. Division 2 Section "Earthwork" for excavation, filling and backfilling, and rough grading.

1.3 DEFINITIONS

A. Finish Grade: Elevation of finished surface of planting soil.

B. Manufactured Soil: Soil produced off-site by homogeneously blending mineral soils or sand with stabilized organic soil amendments to produce topsoil or planting soil.

C. Planting Soil: Native or imported topsoil, manufactured topsoil, or surface soil modified to become topsoil; mixed with soil amendments.

D. Subgrade: Surface or elevation of subsoil remaining after completing excavation, or top surface of a fill or backfill immediately beneath planting soil.

1.4 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Certification of Grass Seed: From seed vendor for each grass-seed monostand or mixture stating the botanical and common name and percentage by weight of each species and variety, and percentage of purity, germination, and weed seed. Include the year of production and date of packaging.

C. Qualification Data: For landscape Installer.

D. Planting Schedule: Indicating anticipated planting dates for each type of planting.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: A qualified landscape installer whose work has resulted in successful lawn establishment.

1. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when planting is in progress.

B. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination."

1.6 DELIVERY, STORAGE AND HANDLING

A. Seed: Deliver seed in original sealed, labeled, and undamaged containers.

1.7 SCHEDULING

A. Planting Restrictions: Plant during one of the following periods. Coordinate planting periods with maintenance periods to provide required maintenance from date of Substantial Completion.

1. Spring Planting: April 15 through May 15.
2. Fall Planting: August 15 through September 15.

B. Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit.

1.8 LAWN MAINTENANCE – GENERAL LAWN AREAS

A. Begin maintenance immediately after each area is planted and continue until acceptable lawn is established, but for not less than the following periods:

1. Seeded Lawns: 60 days from date of Substantial Completion.

a. When full maintenance period has not elapsed before end of planting season, or if lawn is not fully established, continue maintenance during next planting season.

B. Maintain and establish lawn by watering, fertilizing, weeding, mowing, trimming, replanting, and other operations. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth lawn.

1. In areas where mulch has been disturbed by wind or maintenance operations, add new mulch. Anchor as required to prevent displacement.

C. Watering: Provide and maintain temporary piping, hoses, and lawn-watering equipment to convey water from sources and to keep lawn uniformly moist to a depth of 4 inches (100 mm) .

1. Schedule watering to prevent wilting, puddling, erosion, and displacement of seed or mulch. Lay out temporary watering system to avoid walking over muddy or newly planted areas.

2. Water lawn at a minimum rate of 1 inch (25 mm) per week.

D. Mow lawn as soon as top growth is tall enough to cut. Repeat mowing to maintain specified height without cutting more than 40 percent of grass height. Remove no more than 40 percent of grass-leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over and become matted. Do not mow when grass is wet. Schedule initial and subsequent mowings to maintain the following grass height:

1. Mow grass 2 to 3 inches (50 to 75 mm) high.

E. Lawn Postfertilization: Apply fertilizer after initial mowing and when grass is dry.

PART 2 - PRODUCTS

2.1 SEED

A. Grass Seed: Fresh, clean, dry, new-crop seed complying with AOSA's "Journal of Seed Technology; Rules for Testing Seeds" for purity and germination tolerances.

B. Seed Species: Seed of grass species as follows, with not less than 95 percent germination, not less than 98 percent pure seed, and not more than 0.5 percent weed seed:

General Seed Mix:

Species	Mix	Purity	Germination
Annual Rye	10%	98%	95%
*Perennial Rye	30%	98%	95%
Creeping Red Fescue	20%	98%	95%
**Turf Type Tall Fescue	40%	98%	95%

*Note: Provide a minimum of two varieties of Perennial Rye from the following list: Affinity, APM, Buccaneer, Nighthawk, Partner, Saturn, Seville.

**Note: Provide a minimum of two varieties of Turf Type Tall Fescue from the following list: Jubilee, Veranda, Morgan, Stagecoach.

2.2 TOPSOIL

A. Topsoil: ASTM D 5268, pH range of 5.5 to 7, a minimum of 4 percent organic material content; free of stones 1 inch (25 mm) or larger in any dimension and other extraneous materials harmful to plant growth. Topsoil for competition and practice fields shall be screened to eliminate all stones.

1. Topsoil Source: Reuse surface soil stockpiled on-site. Verify suitability of stockpiled surface soil to produce topsoil. Clean surface soil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful to plant growth.

a. Supplement with imported or manufactured topsoil from off-site sources when quantities are insufficient. Obtain topsoil displaced from naturally well-drained construction or mining sites where topsoil occurs at least 4 inches (100 mm) deep; do not obtain from bogs or marshes.

2.3 PLANTING ACCESSORIES

A. Selective Herbicides: EPA registered and approved, of type recommended by manufacturer for application.

2.4 FERTILIZER

A. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50 percent derived from natural organic sources of urea formaldehyde, phosphorous, and potassium in the following composition:

1. Composition: 1 lb/1000 sq. ft. (0.45 kg/92.9 sq. m) of actual nitrogen, 4 percent phosphorous, and 2 percent potassium, by weight.

2.5 MULCHES

A. Fiber Mulch: Biodegradable, dyed-wood, cellulose-fiber mulch; nontoxic; free of plant-growth or germination inhibitors; with maximum moisture content of 15 percent and a pH range of 4.5 to 6.5.

B. Nonasphaltic Tackifier: Colloidal tackifier recommended by fiber-mulch manufacturer for slurry application; nontoxic and free of plant-growth or germination inhibitors.

2.6 EROSION-CONTROL MATERIALS

A. Erosion-Control Blankets: Biodegradable wood excelsior, straw, or coconut-fiber mat enclosed in a photodegradable plastic mesh. Include manufacturer's recommended steel wire staples, 6 inches (150 mm) long.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas to receive lawns and grass for compliance with requirements and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities, trees, shrubs, and plantings from damage caused by planting operations.

1. Protect adjacent and adjoining areas from hydromulch overspray.

B. Provide erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

3.3 LAWN PREPARATION

A. Limit lawn subgrade preparation to areas to be planted.

B. Newly Graded Subgrades: Loosen subgrade to a minimum depth of 6 inches (150 mm). Remove stones larger than 1 inch (25 mm) in any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off Owner's property.

1. Spread planting soil mix to a depth of 6 inches (150 mm) but not less than required to meet finish grades after light rolling and natural settlement. Do not spread if planting soil or subgrade is frozen, muddy, or excessively wet.
    a. Spread approximately one-half the thickness of planting soil mix over loosened subgrade. Mix thoroughly into top 2 inches (50 mm) of subgrade. Spread remainder of planting soil mix.

C. Finish Grading: Grade planting areas to a smooth, uniform surface plane with loose, uniformly fine texture. Grade to within plus or minus 1/2 inch (13 mm) of finish elevation. Roll and rake, remove ridges, and fill depressions to meet finish grades. Limit fine grading to areas that can be planted in the immediate future.

D. Moisten prepared lawn areas before planting if soil is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.

E. Restore areas if eroded or otherwise disturbed after finish grading and before planting.

3.4 DRILL SEEDING / HYDROMULCHING

A. Sow seed with a Brillion or equivalent drill seeding machine. Do not broadcast or drop seed. Evenly distribute seed by sowing equal quantities in two directions at right angles to each other.

1. Do not use wet seed or seed that is moldy or otherwise damaged.

B. Sow seed at the rate of 8 lb/1000 sq. ft. (3.6 kg/92.9 sq. m) .

C. Rake seed lightly into top 1/8 inch (3 mm) of topsoil, roll lightly, and water with fine spray.

D. Hydromulch within 24 hours after completing seeding operations. Combine Tupersan (or equivalent) with hydromulch to control weeds during establishment period.

1. Mix specified fertilizer and fiber mulch in water, using equipment specifically designed for hydroseed application. Continue mixing until uniformly blended into homogeneous slurry suitable for hydraulic application.

2. Apply slurry uniformly to all seeded areas in a one-step process. Apply mulch at a minimum rate of 1500-lb/acre (15.3-kg/92.9 sq. m) dry weight.

3.5 LAWN RENOVATION

A. Renovate existing lawn damaged by Contractor's operations, such as storage of materials or equipment and movement of vehicles.

1. Reestablish lawn where settlement or washouts occur or where minor regrading is required.

B. Remove sod and vegetation from diseased or unsatisfactory lawn areas; do not bury in soil.

C. Remove topsoil containing foreign materials resulting from Contractor's operations, including oil drippings, fuel spills, stone, gravel, and other construction materials, and replace with new topsoil.

D. Mow, dethatch, core aerate, and rake existing lawn.

E. Remove weeds before seeding. Where weeds are extensive, apply selective herbicides as required. Do not use pre-emergence herbicides.

F. Remove waste and foreign materials, including weeds, soil cores, grass, vegetation, and turf, and legally dispose of them off Owner's property.

G. Till stripped, bare, and compacted areas thoroughly to a soil depth of 6 inches (150 mm).

H. Apply seed and hyrdromulch as required for new lawns.

I. Water newly planted areas and keep moist until new lawn is established.

3.6 SATISFACTORY LAWNS

A. Satisfactory Seeded Lawn: At end of maintenance period, a healthy, uniform, close stand of grass has been established, free of weeds and surface irregularities, with coverage exceeding 90 percent over any 10 sq. ft. (0.92 sq. m) and bare spots not exceeding 5 by 5 inches (125 by 125 mm) .

B. Reestablish lawns that do not comply with requirements and continue maintenance until lawns are satisfactory.

3.7 CLEANUP AND PROTECTION

A. Promptly remove soil and debris created by lawn work from paved areas. Clean wheels of vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas.

B. Erect barricades and warning signs as required to protect newly planted areas from traffic. Maintain barricades throughout maintenance period and remove after lawn is established.

C. Remove erosion-control measures after grass establishment period.

END OF SECTION

SITE CLEARING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This Section includes the following:

1. Protecting existing trees, shrubs, groundcovers, plants and grass to remain.
2. Removing existing trees, shrubs, groundcovers, plants and grass.
3. Clearing and grubbing.
4. Stripping and stockpiling topsoil. .
5. Removing above- and below-grade site improvements.
6. Temporary erosion and sedimentation control measures.

B. Related Sections include the following:

1. Division 01 Section “Execution” for verifying utility locations and for recording field measurements.
2. Division 02 Section “Selective Structure Demolition” for partial demolition of buildings or structures undergoing alterations.
3. Division 31 Section “Earth Moving” for soil materials, excavating, backfilling and site grading.
4. Division 23 Section “Turf and Grasses and Plants” for finish grading including preparing and placing planting soil mixes and testing of topsoil material.

1.3 DEFINITIONS

A. Topsoil: Natural or cultivated surface-soil layer containing organic matter and sand, silt and clay particles; friable, pervious and black or a darker shade of brown, gray or red than underlying subsoil; reasonably free of subsoil, clay lumps, gravel and other objects more than 2 inches (50 mm) in diameter; and free of subsoil and weeds, roots, toxic materials or other nonsoil materials.

B. Tree Protection Zone: Area surrounding individual trees or groups of trees to be protected during construction and defined by the drip line of individual trees or the perimeter drip line of groups of trees, unless otherwise indicated.

1.4 MATERIAL OWNERSHIP

A. Except for stripped topsoil or other materials indicated to remain Owner's property, cleared materials shall become Contractor's property and shall be removed from Project site.

1.5 **PROJECT CONDITIONS**

A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.

1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.

2. Provide alternate routes around closed or obstructed traffic ways if required by authorities having jurisdiction.

B. Salvable Improvements: Carefully remove items indicated to be salvaged and store on Owner's premises where indicated.

C. Utility Locator Service: Notify utility locater service for area where Project is located before site clearing.

D. Do not commence site clearing operations until temporary erosion and sedimentation control measures are in place.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 **PREPARATION**

A. Protect and maintain benchmarks and survey control points from disturbance during construction.

B. Locate and clearly flag trees and vegetation to remain or to be relocated.

C. Protect existing site improvements to remain from damage during construction.

1. Restore damaged improvements to their original condition, as acceptable to Owner.

3.2 **TEMPORARY EROSION AND SEDIMENTATION CONTROL**

A. Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to a sediment and erosion control plan, specific to the site, that complies with requirements of authorities having jurisdiction.

B. Inspect, repair, and maintain erosion and sedimentation control measures during construction until permanent vegetation has been established.

C. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

3.3 TREE PROTECTION

A. Erect and maintain temporary fencing around tree protection zones before starting site clearing. Remove fence when construction is complete.

1. Do not store construction materials, debris, or excavated material within fenced area.
2. Do not permit vehicles, equipment, or foot traffic within fenced area.
3. Maintain fenced area free of weeds and trash.

B. Do not excavate within tree protection zones, unless otherwise indicated.

C. Where excavation for new construction is required within tree protection zones, hand clear and excavate to minimize damage to root systems. Use narrow-tine spading forks, comb soil to expose roots, and cleanly cut roots as close to excavation as possible.

1. Cover exposed roots with burlap and water regularly.
2. Temporarily support and protect roots from damage until they are permanently redirected and covered with soil.
3. Coat cut faces of roots more than 1-1/2 inches (38 mm) in diameter with an emulsified asphalt or other approved coating formulated for use on damaged plant tissues.
4. Backfill with soil as soon as possible.

D. Repair or replace trees and vegetation indicated to remain that are damaged by construction operations, in a manner approved by Architect.

1. Employ an arborist, licensed in jurisdiction where Project is located, to submit details of proposed repairs and to repair damage to trees and shrubs.
2. Replace trees that cannot be repaired and restored to full-growth status as determined by Architect.

3.4 UTILITIES

A. Locate, identify, disconnect and seal or cap off utilities indicated to be removed.

1. Arrange with utility companies to shut off indicated utilities.
2. Owner will arrange to shut off indicated utilities when requested by Contractor

.

B. Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:

1. Notify Architect not less than two days in advance of proposed utility interruptions.
2. Do not proceed with utility interruptions without Architect's written permission.

C. Excavate for and remove underground utilities indicated to be removed.

3.5 CLEARING AND GRUBBING

A. Remove obstructions, trees, shrubs, grass, and other vegetation to permit installation of new construction.

1. Do not remove trees, shrubs, and other vegetation indicated to remain or to be relocated.
2. Cut minor roots and branches of trees indicated to remain in a clean and careful manner where such roots and branches obstruct installation of new construction.
3. Grind stumps and remove roots, obstructions and debris extending to a depth of 18 inches (450 mm) below exposed subgrade.
4. Use only hand methods for grubbing within tree protection zone.

B. Fill depressions caused by clearing and grubbing operations with satisfactory soil material unless further excavation or earthwork is indicated.

1. Place fill material in horizontal layers not exceeding a loose depth of 8 inches (200 mm), and compact each layer to a density equal to adjacent original ground.

3.6 TOPSOIL STRIPPING

A. Remove sod and grass before stripping topsoil.

B. Strip topsoil to whatever depths are encountered in a manner to prevent intermingling with underlying subsoil or other waste materials.

1. Remove subsoil and nonsoil materials from topsoil, including trash, debris, weeds, roots and other waste materials.

C. Stockpile topsoil materials away from edge of excavations without intermixing with subsoil. Grade and shape stockpiles to drain surface water. Cover to prevent windblown dust.

1. Limit height of topsoil stockpiles to 72 inches (1800 mm).
2. Do not stockpile topsoil within tree protection zones.
3. Dispose of excess topsoil as specified for waste material disposal.
4. Stockpile surplus topsoil to allow for respreading deeper topsoil.

3.7 SITE IMPROVEMENTS

A. Remove existing above- and below-grade improvements as indicated and as necessary to facilitate new construction.

B. Remove slabs, paving, curbs, gutters and aggregate base as indicated.

1. Unless existing full-depth joints coincide with line of demolition, neatly saw-cut length of existing pavement to remain before removing existing pavement. Saw-cut faces vertically.
2. Paint cut ends of steel reinforcement in concrete to remain to prevent corrosion.

3.8 DISPOSAL

A. Disposal: Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.

END OF SECTION

HOT-MIX ASPHALT PAVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This Section includes the following:

1. Hot-mix asphalt paving.
2. Pavement-marking paint.

B. Related Sections:

1. Division 31 Section "Earth Moving" for aggregate subbase and base courses and for aggregate pavement shoulders.
2. Division 32 Sections for other paving installed as part of crosswalks in asphalt pavement areas.

1.3 DEFINITION

A. Hot-Mix Asphalt Paving Terminology: Refer to ASTM D 8 for definitions of terms.

B. MDOT: Michigan Department of Transportation.

1.4 SYSTEM DESCRIPTION

A. Provide hot-mix asphalt paving according to materials, workmanship and other applicable requirements of standard specifications of MDOT.

1. Standard Specification: Michigan Department of Transportation Standards, current edition

B. Measurement and payment provisions and safety program submittals included in standard specifications do not apply to this Section.

1.5 SUBMITTALS

A. Material Compliance Certificate: Se attached certificate at the end of this Specification.

B. Job-Mix Designs: For each job mix proposed for the work.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: A paving-mix manufacturer registered with and approved by authorities having jurisdiction or MDOT.

B. Testing Agency Qualifications: Qualified according to ASTM D 3666 for testing indicated.

C. Regulatory Requirements: Comply with materials, workmanship and other applicable requirements of MDOT Standard for asphalt paving work.

D. Asphalt-Paving Publication: Comply with AI MS-22, "Construction of Hot Mix Asphalt Pavements," unless more stringent requirements are indicated

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver pavement-marking materials to Project site in original packages with seals unbroken and bearing manufacturer's labels containing brand name and type of material, date of manufacture, and directions for storage.

B. Store pavement-marking materials in a clean, dry, protected location within temperature range required by manufacturer. Protect stored materials from direct sunlight.

1.8 PROJECT CONDITIONS

A. Environmental Limitations: Do not apply asphalt materials if subgrade is wet or excessively damp, if rain is imminent or expected before time required for adequate cure, or if the following conditions are not met:

1. Prime Coat: Minimum surface temperature of 60 deg F (15.6 deg C)
2. Tack Coat: Minimum surface temperature of 60 deg F (15.6 deg C).
3. Asphalt Base Course: Minimum surface temperature of 40 deg F (4.4 deg C) and rising at time of placement.
4. Asphalt Surface Course: Minimum surface temperature of 60 deg F (15.6 deg C) at time of placement.

B. Pavement-Marking Paint: Proceed with pavement marking only on clean, dry surfaces and at a minimum ambient or surface temperature of 40 deg F (4.4 deg C) for oil-based materials, 55 deg F (12.8 deg C) for water-based materials, and not exceeding 95 deg F (35 deg C) .

PART 2 - PRODUCTS

2.1 AGGREGATES

A. General: Use materials and gradations that have performed satisfactorily in previous installations.

2.2 ASPHALT MATERIALS

A. Prime Coat: Asphalt emulsion prime coat complying with MDOT requirements.

B. Tack Coat: Comply with MDOT requirements

C. Water: Potable.

2.3 AUXILIARY MATERIALS

A. Pavement-Marking Paint: Alkyd-resin type, lead and chromate free, ready mixed, complying with AASHTO M 248, Type N; colors complying with FS TT-P-1952.

1. Color: White for general striping and pavement markings. Provide blue for barrier free parking areas.

2.4 MIXES

A. Hot-Mix Asphalt: Provide dense, hot-laid, hot-mix asphalt plant mixes approved by MDOT. Refer to Drawings for specific additional information.

1. Light Duty Pavement
   a. Base Course: 1500L 20AAA (Max 20% RAP 3% air voids)
   b. Surface Course: 36A Virgin
2. Heavy Duty Pavement
   a. Base Course: 1500L 20AAA (Max 20% RAP 3% air voids)
   b. Surface Course: 36A Virgin

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that subgrade is dry and in suitable condition to begin paving.

B. Proof-roll subgrade below pavements with heavy pneumatic-tired equipment to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.

1. Completely proof-roll subgrade in one direction, repeating proof- rolling in direction perpendicular to first direction. Limit vehicle speed to 3 mph (5 km/h).
2. Proof-roll with a loaded 10-wheel, tandem-axle dump truck weighing not less than 15 tons (13.6 tonnes).
3. Excavate soft spots, unsatisfactory soils and areas of excessive pumping or rutting as determined by Owner and replace with compacted backfill or fill as directed.

C. Proceed with paving only after unsatisfactory conditions have been corrected.

3.2 SURFACE PREPARATION

A. General: Immediately before placing asphalt materials, remove loose and deleterious material from substrate surfaces. Ensure that prepared subgrade is ready to receive paving.

3.3 HOT-MIX ASPHALT PLACING

A. Machine place hot-mix asphalt on prepared surface, spread uniformly, and strike off. Place asphalt mix by hand to areas inaccessible to equipment in a manner that prevents segregation of mix. Place each course to required grade, cross section, and thickness when compacted.

1. Place hot-mix asphalt base course in number of lifts and thicknesses indicated.
2. Spread mix at minimum temperature of 250 deg F (121 deg C).
3. Begin applying mix along centerline of crown for crowned sections and on high side of one-way slopes, unless otherwise indicated.
4. Regulate paver machine speed to obtain smooth, continuous surface free of pulls and tears in asphalt-paving mat.

B. Place paving in consecutive strips not less than 10 feet (3 m) wide unless infill edge strips of a lesser width are required.

1. After first strip has been placed and rolled, place succeeding strips and extend rolling to overlap previous strips. Complete a section of asphalt base course before placing asphalt surface course.

C. Promptly correct surface irregularities in paving course behind paver. Use suitable hand tools to remove excess material forming high spots. Fill depressions with hot-mix asphalt to prevent segregation of mix; use suitable hand tools to smooth surface.

3.4 JOINTS

A. Construct joints to ensure a continuous bond between adjoining paving sections. Construct joints free of depressions with same texture and smoothness as other sections of hot-mix asphalt course.

1. Clean contact surfaces and apply tack coat to joints.
2. Construct transverse joints at each point where paver ends a day's work and resumes work at a subsequent time. Construct these joints using either "bulkhead" or "papered" method according to AI MS-22, for both "Ending a Lane" and "Resumption of Paving Operations."
3. Compact joints as soon as hot-mix asphalt will bear roller weight without excessive displacement.
4. Compact asphalt at joints to a density within 2 percent of specified course density.

3.5 COMPACTION

A. General: Begin compaction as soon as placed hot-mix paving will bear roller weight without excessive displacement. Compact hot-mix paving with hot, hand tampers or vibratory-plate compactors in areas inaccessible to rollers.

1. Complete compaction before mix temperature cools to 185 deg F (85 deg C)

B. Breakdown Rolling: Complete breakdown or initial rolling immediately after rolling joints and outside edge. Examine surface immediately after breakdown rolling for indicated crown, grade, and smoothness. Correct laydown and rolling operations to comply with requirements.

C. Intermediate Rolling: Begin intermediate rolling immediately after breakdown rolling while hot-mix asphalt is still hot enough to achieve specified density. Continue rolling until hot-mix asphalt course has been uniformly compacted to the following density:

1. Average Density: 96 percent of reference laboratory density according to AASHTO T 245, but not less than 94 percent nor greater than 100 percent.

D. Finish Rolling: Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still warm.

E. Edge Shaping: While surface is being compacted and finished, trim edges of pavement to proper alignment. Bevel edges while asphalt is still hot; compact thoroughly.

F. Repairs: Remove paved areas that are defective or contaminated with foreign materials and replace with fresh, hot-mix asphalt. Compact by rolling to specified density and surface smoothness.

G. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened.

H. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

3.6 ASPHALT CURBS

A. Place hot-mix asphalt to curb cross section indicated or, if not indicated, to local standard shapes, by machine or by hand in wood or metal forms. Tamp hand-placed materials and screed to smooth finish. Remove forms after hot-mix asphalt has cooled.

3.7 INSTALLATION TOLERANCES

A. Thickness: Compact each course to produce the minimum thickness specified. No minus tolerance is provided.

B. Pavement Surface Smoothness: Compact each course to produce a surface smoothness within the following tolerances as determined by using a 10-foot (3-m) straightedge applied transversely or longitudinally to paved areas:

1. Base Course: ¼ inch (6 mm)
2. Surface Course: 1/8 inch (3 mm)
3. Crowned Surfaces: Test with crowned template centered and at right angle to crown. Maximum allowable variance from template is ¼ inch (6 mm).

3.8 PAVEMENT MARKING

A. Do not apply pavement-marking paint until layout, colors, and pavement have been verified with Owner.

B. Allow paving to cure for 30 days before starting pavement marking.

C. Sweep and clean surface to eliminate loose material and dust.

D. Apply paint with mechanical equipment to produce pavement markings, of dimensions indicated, with uniform, straight edges. Apply at manufacturer's recommended rates to provide a minimum wet film thickness of 15 mils (0.4 mm).

3.9 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.

B. Thickness: In-place compacted thickness of hot-mix asphalt courses will be determined according to ASTM D 3549.

C. Surface Smoothness: Finished surface of each hot-mix asphalt course will be tested for compliance with smoothness tolerances.

D. In-Place Density: Testing agency will take samples of uncompacted paving mixtures and compacted pavement according to ASTM D 979 or AASHTO T 168.

E. Remove and replace or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with specified requirements.

3.10 DISPOSAL

A. Except for material indicated to be recycled, remove excavated materials from Project site and legally dispose of them in an EPA-approved landfill.

1. Do not allow milled materials to accumulate on-site.

END OF SECTION

Troy School District
Paving
Bid 9671

SCOPE OF WORK PER SITE

*SPECIAL NOTE: All bidders are advised that all listed measurements are **approximate**. Bidders are responsible for accuracy of all measurements and must be reflected in base bid. Troy School District will not be responsible for additional charges based on discrepancies in square/ linear footage or cubic/square yardage.*

I. ADMINISTRATIVE AND SERVICES BUILDING

4400 / 4420 Livernois, Troy, MI 48083

1. Saw cut 9 areas totaling (approx.) 6,400 s.f.
2. Remove existing asphalt and dispose of at a recycler.
3. Re establish 8 inches of MDOT 21AA crushed limestone base.
4. Install 2 inches 1500L 20 AAA (max 20% RAP 3% air voids) hot mix asphalt.
5. Apply tack coat.
6. Install 2 inches 36A virgin hot mix asphalt.
7. Route (approx.) 8,000 l.f. of cracks.
8. Power clean using 90 lbs. compressed air.
9. Install ASTM D6690 approved hot tar crack material with oil jacket.
10. Sealcoat the entire Services Building lot, road to back of building and rear lot, approx 72,188 square feet total.
11. Re-stripe entire lot.

II. NILES CENTER

201 W. Square Lake Rd., Troy, MI 48098

1. Stockpile 54 parking blocks.
2. Pulverize (approx.) 116,000 s.f. of existing lot and drives.
3. Perform (4) 2 foot vertical repairs on existing catch basins, and set rings and covers to elevations that allow for positive drainage. (Allow for 6 inch asphalt in 8' x 8' around structure.
4. Grade pulverized material to allow for a minimum 1% fall to existing catch basins.
5. All excess material to be removed from site.
6. Compact pulverized material to 97% density.
7. Install 2 inches 1500L 20AAA (max 20% RAP 3% air voids) hot mix asphalt.
8. Apply tack coat at a rate of .20 a square yard.
9. Install 2 inches 36A virgin hot mix asphalt.
10. Install (approx.) 300 l.f. of 6" asphalt curb.
11. Stripe (250 parking spaces – 6 handicap – (approx.) 500 l.f. of crosshatching and stop bars).
12. Re-set 54 parking bumpers with 2 pins.
13. Restore with topsoil and seed edges of lot and backside of new curbs.

III. **SMITH MIDDLE SCHOOL**
5835 Donaldson, Troy, MI 48085

1. Stockpile 96 parking blocks.
2. Pulverize (approx.) 93,000 s.f. of existing lots and drives.
3. Grade pulverized material to allow for a minimum 1% fall to green belts.
4. All excess material to be removed from site.
5. Compact pulverized material to 97% density.
6. Install 2 inches 1500L 20AAA (max 20% RAP 3% air voids) hot mix asphalt.
7. Apply tack coat at a rate of .20 square yard.
8. Install 2 inches 36A virgin hot mix asphalt.
9. Install (approx.) 680 l.f. of 6" asphalt curb.
10. Stripe (141 parking spaces – 3 handicap – (approx.) 200 l.f. of crosshatching and stop bars).
11. Re-set 96 bumpers with 2 pins.
12. Restore with topsoil and seed edges of lot and backside of new curb.

IV. TROY UNION ELEMENTARY
1340 E. Square Lake Rd., Troy, MI 48085

1. Stockpile 80 parking blocks.
2. Pulverize (approx.) 68,000 s.f. of existing lots and drives.
3. Grade pulverized material to allow for a minimum 1% fall to green belts.
4. All excess material to be removed from site.
5. Compact pulverized material to 97% density.
6. Install 2 inches 1500L 20AAA (max 20% RAP and 3% air voids) hot mix asphalt.
7. Apply tack coat at a rate of .20 square yard.
8. Install 2 inches 36A virgin hot mix asphalt.
9. Install 2 inches 36A virgin hot mix asphalt on (approx.) 300 s.f. of spillways and playground walkway.
10. Stripe (68 parking spaces – 2 handicap – 5 directional arrows, and (approx.) 1300 l.f. of crosshatching and centerline.
11. Re set 80 parking blocks with 2 pins.
12. Restore with topsoil and seed edges of lot.

V. WASS ELEMENTARY
2340 Willard, Troy, MI 48085

1. Pulverize (approx.) 70,000 s.f. of existing lots and drives.
2. Perform (7) 2 foot vertical repairs on existing catch basins, and set rings and covers to elevations that allow for positive drainage (allow for 6 inch asphalt in 8' x 8' around structure.
3. Grade pulverized material to allow for a minimum 1% fall to existing catch basins.
4. All excess material to be removed from site.
5. Compact pulverized material to 97% density.

WASS ELEMENTARY (continued)

6. Install 2 inches 1500L 20AAA (max 20% RAP and 3% air voids) hot mix asphalt.
7. Apply tack coat at a rate of .20 s.y.
8. Install 2 inches 36A virgin hot mix asphalt.
9. Install (approx.) 1,250 l.f. of 6 inch asphalt curb.
10. Stripe (96 parking spaces – 4 handicap – (approx.) 800 l.f. of crosshatching and stop bars, and 15 directional arrows.
11. Restore with topsoil and seed edges of lots and drives, along with backside of new curbs.

VI. SCHROEDER ELEMENTARY

3541 Jack Dr., Troy, MI 48084

1. Stockpile 59 parking blocks.
2. Pulverize (approx.) 60,000 s.f. of existing lots and drives.
3. Perform (11) 2 foot repairs on existing catch basins and manholes. Set rings and covers to elevations that allow for positive drainage (allow for 6 inch asphalt in 8' x 8' around structures).
4. Grade pulverized material to allow for a minimum 1% fall to existing catch basins.
5. All excess material to be removed from site.
6. Compact pulverized material to 97% density.
7. Install 2 inches 1500L 20AAA (max 20% RAP and 3% air voids) hot mix asphalt.
8. Apply tack coat at a rate of .20 s.y.
9. Install 2 inches 36A virgin hot mix asphalt.
10. Stripe (51 parking spaces – 4 handicap and (approx.) 400 l.f. of crosshatching and stop bars.
11. Restore with topsoil and seed edges of pavement and drives.

VII. BARNARD ELEMENTARY

3601 Forge Dr., Troy, MI 48083

1. Pulverize (approx.) 63,000 s.f. of existing lots and drives.
2. Perform (6) 2 foot vertical repairs on existing catch basins, and set rings and covers to elevations that allow for positive drainage.
3. Grade pulverized material to allow for a minimum 1% fall to existing catch basins.
4. All excess material to be removed from site.
5. Compact pulverized material to 97% density.
6. Install 2 inches 1500L 20AAA (max 20% RAP 3% air voids) hot mix asphalt.
7. Apply tack coat at a rate of .20 a square yard.
8. Install 2 inches 36A virgin hot mix asphalt.
9. Stripe (92 parking spaces – 3 handicap and (approx.) 400 l.f. of crosshatching and stop bars.
10. Restore with topsoil and seed edges of lot.

VIII MORSE ELEMENTARY (40' X 60' NEW PAD)

475 Cherry, Troy, MI 48083

1. Excavate 15 inches of earth and legally dispose of.
2. Install and compact 12 inches 21AA limestone aggregate base.
3. Install 1.5 inch 1500L 20AAA (max 20% RAP and 3% air voids) hot mix asphalt.
4. Apply tack coat at a rate of .20 a square yard.
5. Install 1.5 inch 36A hot mix asphalt.
6. Restore with topsoil and seed edges of new asphalt pad.

Special Notes:

1. No substitution on asphalt mixes.
2. Prevailing wages required on this project.

END OF SECTION

Troy School District
Paving
Bid 9671

PRICING SHEET

LOCATION	TOTAL COST
Administrative Center/Services Building	$_____
Niles Center	$_____
Smith Middle School	$_____
Troy Union Elementary	$_____
Wass Elementary	$_____
Schroeder Elementary	$_____
Barnard Elementary	$_____
Morse Elementary	$_____

UNIT PRICE SCHEDULE	UNIT	PRICE
Undercut (12 inches) and backfill with MDOT 21AA crushed limestone.	c.y	$_____
Earth Excavation.	c.y.	$_____
Install fabric separator (propex 2006 or equivalent.	s.y.	$_____
Install tensar BX 1100 Geogrid.	s.y	$_____
Install 6 inch asphalt curb.	l.f.	$_____
Perform 2 foot vertical rebuild on catch basin.	ea.	$_____
Remove and replace 4 inch concrete walk.	s.f	$_____
Remove and replace 18 inch curb and gutter with 2 continuous rods.	l.f	$_____
Install hot tar crackfilling.	l.f	$_____
Remove and replace 8 foot bumper block with pins.	ea.	$_____

All bidders are notified that the terms and specifications contained within this Request for Proposal will form the basis for any contract entered into for this work. Troy School District will issue a purchase order once final award is made by its Board of Education. In the event that a conflict should arise between standard terms utilized on the purchase order and this Request for Proposal, the terms and conditions on the Request for Proposal shall take precedent.

COMPANY:_____

ADDRESS:_____

CITY:_____STATE:_____ZIP:_____

STATE OF MICHIGAN

JENNIFER M. GRANHOLM
GOVERNOR

DEPARTMENT OF ENERGY, LABOR & ECONOMIC GROWTH
LANSING

STANLEY "SKIP" PRUSS
DIRECTOR

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

The Michigan Department of Labor & Economic Growth 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 rates provide an hourly rate which includes wage and fringe benefit totals for designated construction mechanic classifications. The overtime rates also include wage and fringe benefit totals. Please pay special attention to the overtime and premium pay requirements. 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 certified payrolls, as used in the industry, of each and every construction mechanic, and verification of such certified payroll in writing by either a representative or auditor/certified accountant at the end of such a

certified payroll. These records should include the occupation and indicate the hours worked on each project for each classification and the actual wages and benefits paid. 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 Wage & Hour Division. 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.

A violation of Act 166 may result in the contractor's name being added to the Prevailing Wage Act Violators List published on the division's website, updated monthly. This list includes the names and addresses of contractors and subcontractors the division has found in violation of Act 166 based on complaints from individuals and third parties. The Prevailing Wage Act Violators List is intended to inform contracting agents of contractors that have violated Act 166 for use in determining who should receive state-funded projects.

JENNIFER M.
GRANHOLM
GOVERNOR

Michigan Department of Energy, Labor & Economic Growth
Wage & Hour Division
PO Box 30476
Lansing , MI 48909-7976
517.335.0400
www.michigan.gov/wagehour

STANLEY "SKIP" PRUSS
DIRECTOR

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

MICHIGAN DEPARTMENT OF ENERGY, LABOR & ECONOMIC GROWTH
WAGE & HOUR DIVISION

2009 MICHIGAN PREVAILING WAGE RATE SCHEDULE
for Parking Lot, ROAD, HIGHWAY, BRIDGE & AIRPORT CONSTRUCTION

Issue Date: 04/08/2010

Contract must be awarded by: 07/07/2010

PW #551 Troy School District 9 Buildings Paving Project

Construction Mechanic Classification	Straight Time Rate	Time & One-Half Rate	Double Time Rate	Overtime Code
CARPENTERS				
Zone 1	$47.05	$67.05	$87.04	HHHHHHDDY
Apprentices				
0- 6 months	$24.65	$33.45	$42.24	HHHHHHDDY
7-12 months	$29.05	$40.05	$51.04	HHHHHHDDY
Year 2	$33.05	$46.05	$59.04	HHHHHHDDY
Year 3	$37.06	$52.06	$67.06	HHHHHHDDY
Year 4	$41.05	$58.05	$75.04	HHHHHHDDY
Zone 2	$38.81	$51.91	NONE	HHHHHHHHY
Apprentices				
1st Year	$28.33	$36.19	NONE	HHHHHHHHY
2nd Year	$30.95	$40.12	NONE	HHHHHHHHY
3rd Year	$33.57	$44.05	NONE	HHHHHHHHY
4th Year	$34.88	$46.01	NONE	HHHHHHHHY
CEMENT MASONS				
Zone 1	$37.91	$51.65	NONE	HHHHHHHHY
Apprentices				
Year 1	$25.43	$32.93	NONE	HHHHHHHHY
Year 2	$29.56	$39.13	NONE	HHHHHHHHY
Year 3	$33.70	$45.34	NONE	HHHHHHHHY
Zone 2	$36.41	$49.40	NONE	HHHHHHHHY
Apprentices				
Year 1	$24.60	$31.69	NONE	HHHHHHHHY
Year 2	$28.55	$37.61	NONE	HHHHHHHHY
Year 3	$32.52	$43.57	NONE	HHHHHHHHY

OPERATING ENGINEERS				
Zone 1 CLASS I	$45.87	$59.83	NONE	HHHHHHHHY
CLASS II	$39.14	$49.73	NONE	HHHHHHHHY
CLASS II GREASE TRUCK	$40.44	$51.68	NONE	HHHHHHHHY
CLASS III	$38.58	$48.89	NONE	HHHHHHHHY
CLASS IV	$38.41	$48.64	NONE	HHHHHHHHY
Zone 2 CLASS I	$45.87	$59.83	NONE	HHHHHHHHY
CLASS II	$38.99	$49.51	NONE	HHHHHHHHY
CLASS II GREASE TRUCK	$40.29	$51.46	NONE	HHHHHHHHY
CLASS III	$38.43	$48.67	NONE	HHHHHHHHY
CLASS IV	$38.11	$48.19	NONE	HHHHHHHHY
Apprentices (**Zones 1 & 2**)				
1st 6 Month Period	$37.50	$47.27	NONE	HHHHHHHHY
2nd 6 Month Period	$38.89	$49.36	NONE	HHHHHHHHY
3rd 6 Month Period	$40.29	$51.45	NONE	HHHHHHHHY
4th 6 Month Period	$41.68	$53.55	NONE	HHHHHHHHY
5th 6 Month Period	$43.08	$55.64	NONE	HHHHHHHHY
6th 6 Month Period	$44.47	$57.73	NONE	HHHHHHHHY
IRONWORKERS: Fence, Sound Barrier & Guardrail Erection/Installation, and Exterior Signage Work				
Zone 1	$30.80	$42.63	$54.45	XXHXXXHDY
60% Level Apprentice	$21.10	$28.20	$35.29	XXHXXXHDY
65% Level Apprentice	$22.31	$30.00	$37.69	XXHXXXHDY
70% Level Apprentice	$23.53	$31.80	$40.08	XXHXXXHDY
75% Level Apprentice	$24.74	$33.61	$42.48	XXHXXXHDY
80% Level Apprentice	$25.95	$35.41	$44.87	XXHXXXHDY
Zone 2	$26.80	$36.63	$46.45	XXHXXXHDY
60% Level Apprentice	$18.70	$24.60	$30.49	XXHXXXHDY
65% Level Apprentice	$19.71	$26.10	$32.49	XXHXXXHDY
70% Level Apprentice	$20.73	$27.60	$34.48	XXHXXXHDY
75% Level Apprentice	$21.74	$29.11	$36.48	XXHXXXHDY
80% Level Apprentice	$22.75	$30.61	$38.47	XXHXXXHDY

LABORERS				
CLASS 1 **Zone 1**	$34.41	$46.07	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$29.04	$38.02	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$30.12	$39.63	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$31.19	$41.24	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$33.34	$44.46	NONE	HHHHHHHHY
CLASS 1 **Zone 2**	$32.51	$43.22	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$27.71	$36.01	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$28.67	$37.45	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$29.63	$38.90	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$31.55	$41.78	NONE	HHHHHHHHY
CLASS 1 **Zones 3 & 4**	$31.76	$42.10	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$27.14	$35.17	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$28.07	$36.55	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$28.99	$37.94	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$30.84	$40.71	NONE	HHHHHHHHY
CLASS 2 **Zone 1**	$34.54	$46.27	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$29.14	$38.17	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$30.22	$39.79	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$31.30	$41.41	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$33.46	$44.65	NONE	HHHHHHHHY
CLASS 2 **Zone 2**	$32.71	$43.52	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$27.86	$36.24	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$28.83	$37.69	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$29.80	$39.15	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$31.74	$42.06	NONE	HHHHHHHHY
CLASS 2 **Zones 3 & 4**	$31.97	$42.41	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$27.30	$35.41	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$28.23	$36.81	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$29.17	$38.21	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$31.04	$41.01	NONE	HHHHHHHHY

LABORERS continued				
CLASS 3 **Zone 1**	$34.72	$46.54	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$29.28	$38.37	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$30.36	$40.00	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$31.45	$41.63	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$33.63	$44.90	NONE	HHHHHHHHY
CLASS 3 **Zone 2**	$32.95	$43.88	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$28.04	$36.51	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$29.02	$37.98	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$30.00	$39.46	NONE	HHHHHHHHY
Apprentice 3,001 – 4,000 work hours	$31.97	$42.41	NONE	HHHHHHHHY
CLASS 3 **Zones 3 & 4**	$32.26	$42.85	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$27.52	$35.73	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$28.47	$37.15	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$29.41	$38.58	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$31.31	$41.42	NONE	HHHHHHHHY
CLASS 4 **Zone 1**	$34.80	$46.66	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$29.34	$38.46	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$30.43	$40.10	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$31.52	$41.74	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$33.71	$45.02	NONE	HHHHHHHHY
CLASS 4 **Zone 2**	$33.30	$44.41	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$28.30	$36.90	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$29.30	$38.40	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$30.30	$39.90	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$32.30	$42.90	NONE	HHHHHHHHY
CLASS 4 **Zones 3 & 4**	$32.70	$43.51	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$27.85	$36.23	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$28.82	$37.68	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$29.79	$39.14	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$31.73	$42.05	NONE	HHHHHHHHY

LABORERS continued				
CLASS 5 **Zone 1**	$35.01	$46.97	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$29.49	$38.69	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$30.60	$40.35	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$31.70	$42.00	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$33.91	$45.31	NONE	HHHHHHHHY
CLASS 5 **Zone 2**	$33.17	$44.21	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$28.20	$36.76	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$29.19	$38.25	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$30.19	$39.74	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$32.18	$42.72	NONE	HHHHHHHHY
CLASS 5 **Zones 3 & 4**	$32.32	$42.94	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$27.56	$35.80	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$28.51	$37.23	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$29.47	$38.65	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$31.37	$41.51	NONE	HHHHHHHHY
CLASS 6 **Zone 1**	$35.31	$47.42	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$29.72	$39.03	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$30.84	$40.71	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$31.95	$42.39	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$34.19	$45.74	NONE	HHHHHHHHY
CLASS 6 **Zone 2**	$33.51	$44.72	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$28.46	$37.14	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$29.47	$38.65	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$30.48	$40.17	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$32.50	$43.20	NONE	HHHHHHHHY
CLASS 6 **Zones 3 & 4**	$32.75	$43.58	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$27.89	$36.28	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$28.86	$37.74	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$29.83	$39.20	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$31.78	$42.12	NONE	HHHHHHHHY

LABORERS continued				
CLASS 7 **Concrete Specialist** Zone 1	$36.38	$49.03	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$30.52	$40.24	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$31.69	$41.99	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$32.86	$43.75	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$35.21	$47.27	NONE	HHHHHHHHY
CLASS 7 **Concrete Specialist** Zones 2, 3, & 4	$36.08	$48.58	NONE	HHHHHHHHY
Apprentice 0-1,000 work hours	$30.38	$40.03	NONE	HHHHHHHHY
Apprentice 1,001-2,000 work hours	$31.52	$41.74	NONE	HHHHHHHHY
Apprentice 2,001-3,000 work hours	$32.66	$43.45	NONE	HHHHHHHHY
Apprentice 3,001-4,000 work hours	$34.94	$46.87	NONE	HHHHHHHHY
PIPE & MANHOLE REHAB WORK				
General laborer for rehab work or normal cleaning and cctv work; top man, scaffold man, cctv assistant, jetter-vac assistant	$26.00	$34.90	NONE	HHHHHHHHN
Tap cutter/cctv tech; grout equipment operator; unit driver and operator of cctv, grouting equipment and tap cutting equipment in connection with pipe & manhole rehab work	$30.50	$41.65	NONE	HHHHHHHHN
CCTV tech/combo unit; operator of cctv unit or combo unit in connection with normal cleaning and televising work	$29.25	$39.77	NONE	HHHHHHHHN
Boiler operator: unit driver and operator of steam/water heater units and all ancillary equipment associated	$31.00	$42.40	NONE	HHHHHHHHN
Combo unit driver & jetter-vac operator	$31.00	$42.40	NONE	HHHHHHHHN
Pipe bursting & slip-lining equipment operator	$32.00	$43.90	NONE	HHHHHHHHN

TRUCK DRIVERS				
Zone 1				
Driver of all trucks of 8 cubic yard capacity or less	$36.84	$36.44	NONE	HHHHHHHHHY
Driver of trucks of 8 cubic yard capacity or over	$36.94	$36.59	NONE	HHHHHHHHHY
Driver of euclid type equipment	$37.09	$36.81	NONE	HHHHHHHHHY
Zone 2				
Driver of all trucks of 8 cubic yard capacity or less	$36.74	$36.29	NONE	HHHHHHHHHY
Driver of all trucks of 8 cubic yard capacity or over	$36.84	$36.44	NONE	HHHHHHHHHY
Driver of euclid type equipment	$36.99	$36.66	NONE	HHHHHHHHHY

Effective Date: August 12, 2009

CARPENTERS

Zone 1 Wayne, Oakland, Macomb, Sanilac, St. Clair, Monroe, and the following townships of Livingston County: Brighton, Deerfield, Genoa, Hartland, Osceola and Tyrone

Zone 2 The entire state except those counties and townships listed in Zone 1

CEMENT MASONS

Zone 1 Genesee, Oakland, Macomb, Monroe, Washtenaw, Wayne, Livingston and Saginaw Counties

Zone 2 Alcona, Alger, Allegan, Alpena, Antrim, Arenac, Baraga, Barry, Bay, Berrien, Benzie, Branch, Calhoun, Cass, Charlevoix, Cheboygan, Chippewa, Clare, Clinton, Crawford, Delta, Dickinson, Eaton, Emmet, Gladwin, Gogebic, Grand Traverse, Gratiot, Hillsdale, Houghton, Huron, Ingham, Ionia, Iosco, Iron, Isabella, Jackson, Kalamazoo, Kalkaska, Kent, Keweenaw, Lake, Lapeer, Leelanau, Lenawee, Luce, Mackinac, Manistee, Marquette, Mason, Mecosta, Menominee, Midland, Missaukee, Montcalm, Montmorency, Muskegon, Newaygo, Oceana, Ogemaw, Ontonagon, Osceola, Oscoda, Otsego, Ottawa, Presque Isle, Roscommon, Sanilac, Schoolcraft, Shiawassee, St. Clair, St. Joseph, Tuscola, Van Buren, and Wexford Counties

OPERATING ENGINEERS

Zone 1 Genesee, Oakland, Macomb, Monroe, Washtenaw and Wayne Counties

Zone 2 The entire state except those counties listed in Zone 1

OPERATING ENGINEERS CLASSIFICATION DESCRIPTIONS

Class I

Asphalt Paver (self-propelled)
Asphalt Planer (self-propelled)
Asphalt Plant Operator
Auto-Grader
Blade Grader Operator
Batch Plant (concrete-central mix)
Backhoe (with over 3/8 yard bucket)
Bulldozer Operator
Concrete Pump 3" and over
Conveyor Loader Operator (euclid type)
Crane Operator
Dragline Operator
Elevating Grader Operator
End-loader Operator (1 yard capacity or over)
Slip Form Paver
Finishing Machine Operator (asphalt)
Gradall Operator (and similar type machines)
Hoisting Engineer
Hydro demolisher (water blaster)
Locomotive Operator
Mechanic
Paver Operator (5 bags or more)
Pump Operator (6" discharge or over, gas, diesel powered, or generator of 300 amp or larger)
Pile Driving Operator
Roto Mill
Roller Operator (Asphalt)
Side Boom Tractor (type D-4, equivalent or larger)
Self-Propelled or Tractor Drawn Scraper
Slurry Machine (asphalt)
Swinging Boom Truck (over l2 ton capacity)
Shouldering or Gravel Distributing Machine Operator (self-propelled)
Shovel Operator
Side Boom Tractor (type D-4 or equivalent or larger)
Tractor Operator
Trenching Machine Operator
Tube Finisher (slip form paving)
Farm type tractor with attached pan

Class II

Sweeper (wayne type & similar equipment)
Screening Plant Operator
Washing Plant Operator
Crusher Operator
Vacuum Truck Operator
Backhoe (with 3/8 yard bucket or less)
Side Boom Tractor (smaller than D-4 type or equivalent)
Batch Plant (concrete-dry mix)

Class II

Grease Truck

OPERATING ENGINEERS CLASSIFICATION DESCRIPTIONS continued

Class III

Air Compressor Operator (600 cfm or more)
Air Compressor (2 or more, less than 600 cfm)
Concrete Breaker
Tractor Operator (farm type with attachments)
Wagon Drill Operator

Class IV

Boiler Fireman
Oiler
End-loader Operator (under 1 yard capacity)
Mechanic's Helper
Trencher (service)
Flexplane Operator
Cleftplane Operator
Grader Operator Self-propelled
Fine-Grade or Form (concrete)
Finishing Machine Operator (concrete)

Boom or Winch Hoist Truck Operator

Stump Remover
Skid Steer
Fireman Roller Operator (other than asphalt)
Curing Equipment Operator (self-propelled)
Concrete Saw Operator (Over 40 HP)
Power Bin Operator
Plant Drier Operator (asphalt)
Vibratory Compaction Equipment (6' wide or over)
Guard Post Driver Operator
All Mulching Equipment, Stump Remover, Concrete Pump (under 3")
Farm Type Tractor Operator
End Dumps
Mesh Installer (self-propelled

IRONWORKERS

Zone 1 Genesee, Oakland, Macomb, Monroe, Washtenaw and Wayne Counties

Zone 2 All other counties in the Lower Pennisula

LABORERS

Zone 1 Genesee, Macomb, Monroe, Oakland, Washtenaw and Wayne

Zone 2 Allegan, Barry, Bay, Berrien, Branch, Calhoun, Cass, Clinton, Eaton, Gratiot, Hillsdale, Huron, Ingham, Jackson, Kalamazoo, Lapeer, Lenawee, Livingston, Midland, Muskegon, Saginaw, Sanilac, Shiawassee, St. Clair, St. Joseph, Tuscola, and Van Buren

Zone 3 Alcona, Alpena, Antrim, Arenac, Benzie, Charlevoix, Cheboygan, Clare, Crawford, Emmet, Gladwin, Grand Traverse, Ionia, Iosco, Isabella, Kalkaska, Kent, Lake, Leelanau, Manistee, Mason, Mecosta, Missaukee, Montcalm, Montmorency, Newaygo, Oceana, Ogemaw, Osceola, Oscoda, Otsego, Ottawa, Presque Isle, Roscommon, and Wexford

Zone 4 Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic, Houghton, Iron, Keweenaw, Luce, Mackinac, Marquette, Menominee, Ontonagon, and Schoolcraft

LABORERS CLASSIFICATION DESCRIPTIONS

Class 1 Asphalt Shoveler or Loader, Asphalt Raker Tender, Asphalt Plant Misc., Railroad Track and Trestle Laborer, Burlap Man, Carpenter's Tender, Top Man, Yard Man, Guard Rail Builder's Tender, Earth Retention Barrier and Wall and Mechanically Stabilized Earthen Wall Installers Tender, Highway and Median Barrier Installer's Tender (including Sound, Retaining and Crash Barrier), Fence Erector's Tender, Dumper (wagon, truck, etc.) Joint Filling Labor, Misc., Unskilled Labor, Sprinkler Labor, Form Setting Labor, Form Stripper, Pavement Reinforcing, Handling and Placing (e.g. wire mesh, steel mats, dowel bars, etc.) Mason's or Bricklayer's Tender on Manholes, Manhole Builder, Headwalls, etc., Waterproofing (other than buildings), Seal Coating and Slurry Mix, Shoring, Underpinning, Bridge Painting, etc. (spray, roller and brush) Sandblasting, Pressure Grouting, and Bridge Pin and Hanger Removal, Material Recycling Laborer, Horizontal Paver (brick, concrete, clay, stone and asphalt) Ground Stabilization and Modification Laborer, Grouting, Waterblasting, Sign Installer and remote control operated equipment.

Class 2 Mix Operator (less than 5 sacks), Air or Electric Tool Operator (jack hammer, etc.), Spreader, Boxman (asphalt, stone, gravel, etc.), Concrete Paddler, Power Chain Saw Operator, Paving Batch Truck Dumper, Tunnel Mucker (highway work only), Concrete Saw Operator (under 40 H.P.), Dry Pack Machine and Roto-Mill Grounds Person.

Class 3 Tunnel Miner (highway work only), Finishers Tender, Guard Rail Builder, Highway and Median Barrier Installer, Fence Erector, Bottom Man, Powder Man, Wagon Drill and Air Track Operators, Curb and Side Rail Setters' Tender, Diamond & Core Drills, Earth Retention Barriers, Walls and Mechanically Stabilized Earthen Wall Installer (including sound, retaining and crash barrier), grade checker and certified welder.

Class 4 Asphalt Raker

Class 5 Pipe Layers, Oxy-gun

Class 6 Line-Form Setter for Curb or Pavement and asphalt screed checker/screw man on asphalt paving machines.

Class 7 Concrete Specialist, finishing and troweling, of cast in place or precast concrete by any and all methods.

TRUCK DRIVERS

Zone 1 Genesee, Oakland, Macomb, Monroe, Livingston, Washtenaw and Wayne Counties

Zone 2 The entire state except those counties listed in Zone 1

OVERTIME PROVISIONS FOR Road Builder PREVAILING WAGE RATE SCHEDULE

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

	Monday thru Friday	Saturday	Sunday & Holidays	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 Sunday & Holidays
the 8th character is for time worked on Sunday or on a holiday

4 Ten hour days @ Straight Time
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. **To *utilize a 4 ten workweek, notice is required from the employer to employee prior to the start of work on the project.***

2. Overtime Indicators Used in the Overtime Provision:
H -means TIME AND ONE-HALF due
D -means DOUBLE PAY due
X means TIME AND ONE HALF due after 40 hours worked
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 optional 4-day 10-hour per day workweek can be worked without paying overtime after 8 hours worked

3. EXAMPLES:
HHHHHHDDY - This example shows that the 1½ rate must be used for time worked after 8 hours Monday thru Friday *(characters 1 - 3)*and for all hours worked on Saturday, *(characters 4 - 6),* except hours worked after 10 hours on Saturday *(7th character).* Work done after 10 hours must be paid at the double time rate. Work done on Sunday or holidays must be paid double time *(character 8).* The Y *(character 9)* indicates that 4 ten-hour days is an acceptable alternative workweek at regular pay.

HHHHHHHHY means that the 1½ rate must be used for time worked after 8 hours worked Monday thru Friday *(characters 1-3);* and for any hours worked on Saturdays, Sundays or holidays *(characters 4-8)*. The Y *(character 9)* indicates that 4 ten-hour days is an acceptable alternative workweek at regular pay.

XXHXXXHDY this example allows 4 ten hour days Monday thru Saturday to be worked. Hours worked beyond ten Monday thru Saturday OR hours worked after 40 hours in one week must be paid at time and one half. Sunday or holiday hours must be paid at double.

(REV 09/29/09RB)

Troy School District

Paving

Bid 9671

RESPONSE TO QUESTIONS

VENDOR COMMENT:

"The asphalt mix designs specified are two of the most expensive mixes to manufacture. The Asphalt wearing course, 36A virgin with 3% air voids is a mix typically found on a tennis court. These mixes will add approximately $50,000 to $100,000 to the cost of the job and may be considered overkill. It would be very, very, very easy for a paving contractor to use a different material without the owner's knowledge."

1. What type of testing will the owner employ? Will there be extraction tests made each day and will there be an inspector at the plant to verify that no Recycled Asphalt Product (RAP) is going into the mix?

   ANSWER: The owner will employ an independent testing agency to test as they see fit. The contractor should supply its mix description from the plant.

2. What will the penalty be to the contractor if, after the mix is installed, it is determined to be out of specification limits?

   ANSWER: Tear out and reinstall with proper mix.

3. Will the owner consider awarding the project based on a Voluntary MDOT alternate mix that has a proven successful track record for parking lot construction in Southeast Michigan?

   ANSWER: No.

Troy School District
Paving
Bid 9671

LOCATION	*T & M Asphalt Paving* **ALTERNATE** *MDOT #1100-20AA ASPHALT LEVELING & WEARING*	Asphalt Specialists Inc.	Nagle Paving	Flynn Paving	Ajax Paving	S & J Asphalt Paving	T & M Asphalt Paving	ABC Paving	Best Asphalt	Al's Asphalt Paving	Florence Cement Co.	Cadillac Asphalt	Proline Asphalt Paving
Admin Center/Services Bldg.	*23,600.00*	31,000.00	28,000.00	26,568.00	27,000.00	26,950.00	25,000.00	29,500.00	24,900.00	34,894.00	27,770.00	30,718.27	40,733.05
Niles Center	*176,000.00*	178,473.00	176,490.00	194,590.00	181,300.00	177,050.00	207,000.00	213,000.00	196,190.00	199,939.00	211,687.25	226,027.10	229,266.86
Smith Middle School	*143,000.00*	134,420.00	147,500.00	153,580.00	154,000.00	158,950.00	168,000.00	167,500.00	160,850.00	168,884.00	173,754.50	180,051.76	190,045.05
Troy Union Elementary	*106,000.00*	106,290.00	108,500.00	111,826.00	114,000.00	133,600.00	124,000.00	119,400.00	121,300.00	127,781.00	130,907.00	133,832.30	153,517.47
Wass Elementary	*120,000.00*	106,160.00	114,700.00	121,213.00	124,000.00	132,500.00	139,000.00	136,000.00	159,515.00	135,501.00	147,616.00	152,821.36	150,651.43
Schroeder Elementary	*98,000.00*	102,590.00	102,500.00	99,199.00	110,000.00	107,000.00	114,000.00	125,000.00	114,195.00	119,870.00	134,850.00	139,935.58	125,501.77
Barnard Elementary	*101,000.00*	109,602.00	102,500.00	104,420.00	115,000.00	116,000.00	118,000.00	109,200.00	132,040.00	121,156.00	128,435.00	133,341.40	128,029.24
Morse Elementary	*12,400.00*	15,380.00	9,600.00	9,994.00	12,600.00	15,300.00	13,000.00	10,750.00	9,515.00	13,237.00	17,569.00	14,074.97	12,318.49
TOTAL	***$ 780,000.00***	**$ 783,915.00**	**$ 789,790.00**	**$ 821,390.00**	**$ 837,900.00**	**$ 867,350.00**	**$ 908,000.00**	**$ 910,350.00**	**$ 918,505.00**	**$ 921,262.00**	**$ 972,588.75**	**$ 1,010,802.74**	**$ 1,030,063.36**
		Deduct $10,000 if all 8 schools are awarded											

Troy School District
Paving
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	T & M Asphalt Paving	Asphalt Specialists Inc.	Nagle Paving	Flynn Paving	Ajax Paving	S & J Asphalt Paving	T & M Asphalt Paving	ABC Paving	Best Asphalt	Al's Asphalt Paving	Florence Cement Co.	Cadillac Asphalt	Proline Asphalt Paving
UNIT PRICE SCHEDULE													
Undercut and backfill w/limestone		65.00/c.y.	42.00/c.y.	39.00/c.y.	41.00/c.y.	40.00/c.y.	50.00/c.y.	45.00/c.y.	35.00/c.y.	28.00/c.y.	35.00/c.y.	34.00/c.y.	35.00/c.y.
Earth Excavation		40.00/c.y.	16.00/c.y.	13.00/c.y.	25.00/c.y.	13.00/c.y.	10.00/c.y.	10.00/c.y.	18.00/c.y.	10.00/c.y.	17.50/c.y.	16.00/c.y.	10.00/c.y.
Install fabric separator		4.00/s.y.	1.80/s.y.	1.96/s.y.	5.00/s.y.	2.00/s.y.	3.00/s.y.	2.00/s.y.	2.00/s.y.	3.00/s.y.	2.50/s.y.	2.40/s.y.	2.00/s.y.
Install tensar BX 1100 Geogrid		5.00/s.y.	3.85/s.y.	3.80/s.y.	9.00/s.y.	3.00/s.y.	5.00/s.y.	4.00/s.y.	4.00/s.y.	3.25/s.y.	5.00/s.y.	6.00/s.y.	5.00/s.y.
Install 6" asphalt curb		7.50/l.f.	4.00/l.f.	4.00/l.f.	3.00/l.f.	4.50/l.f.	5.00/s.y.	5.00/s.y.	5.00/s.y.	3.75/s.y.	4.00/s.y.	8.50/l.f.	7.50/s.y.
Perform 2 ft vertical rebuild		1200.00/ea	350.00/ea	250.00/ea	450.00/ea	500.00/ea	800.00/ea	750.00/ea	200.00/ea	300.00/ea	200.00/ea	750.00/ea	300.00/ea
Remove/Replace 4" concrete walk		7.00/s.f.	7.50/s.f.	5.00/s.f.	10.00/s.f.	4.00/s.f.	4.50/s.f.	5.00/s.f.	5.00/s.f.	4.00/s.f.	5.00/s.f.	8.00/s.f.	4.50/s.f.
Remove/Replace 18" curb		50.00/l.f.	28.00/l.f.	45.00/l.f.	38.00/l.f.	25.00/l.f.	30.00/l.f.	50.00/l.f.	20.00/l.f.	22.00/l.f.	50.00/l.f.	35.00/l.f.	40.00/l.f.
Install hot tar crackfilling		.75/l.f.	1.00/l.f.	.55/l.f.	.60/l.f.	.75/l.f.	.50/l.f.	.85/l.f.	1.00/l.f.	.65/l.f.	1.50/l.f.	3.00/l.f.	.75/l.f.
Remove/Replace 8 ft bumper block		50.00/ea	65.00/ea	50.00/ea	25.00/ea	50.00/ea	40.00/ea	50.00/ea	50.00/ea	50.00/ea new 20.00/ea existing	46.00/ea	35.00/ea	75.00/ea