CONSTRUCTION CONTRACT

RFP No. 22-38

PAVEMENT MARKING MAINTENANCE & A2 VISION ZERO QUICK BUILD PROJECT – FY 2023 (FILE No. 2023-022)

City of Ann Arbor ENGINEERING UNIT/PUBLIC SERVICES AREA



August 2022

TABLE OF CONTENTS

CONTRACT (C-1 to-C-4)	3
BONDS (B-1 and B-2)	7
GENERAL CONDITIONS (GC-1 to GC-18)	9
STANDARD SPECIFICATIONS (SS-1)	27
DETAILED SPECIFICATIONS (DS-1)	28
APPENDIX (APDX-1)	50
REQUEST FOR PROPOSAL (RFP) No. 22-38 & ADDENDA	142
SCHEDULE OF PRICING FROM P.K. CONTRACTING, LLC PROPOSAL.	175
BID BOND FROM P.K. CONTRACTING, LLC PROPOSAL	178
ATTACHMENTS (B to I) FROM P.K. CONTRACTING, LLC PROPOSAL	180

Administrative	Use	Only
Contract Date:		_

CONTRACT

THIS CONTRACT is between the CITY OF ANN ARBOR, a Michigan Municipal Corporation, 301 East Huron Street, Ann Arbor, Michigan 48104 ("City") and P.K. Contracting, LLC ("Contractor") a <u>State of Michigan Corporation</u> located at <u>1965 Barrett Drive</u>, <u>Troy</u>, <u>Michigan</u>, <u>48084</u>.

Based upon the mutual promises below, the Contractor and the City agree as follows:

ARTICLE I - Scope of Work

The Contractor agrees to furnish all of the materials, equipment and labor necessary; and to abide by all the duties and responsibilities applicable to it for the project titled **Pavement Marking Maintenance – FY2023; RFP No. 22-38** in accordance with the requirements and provisions of the following documents, including all written modifications incorporated into any of the documents, all of which are incorporated as part of this Contract:

Living Wage and Non-Discrimination Bonds

Ordinances -Declaration of Compliance Forms (if applicable)

General Conditions

Vendor Conflict of Interest Form

Standard Specifications

Prevailing Wage Declaration of Detailed Specifications

Compliance Form (if applicable) Plans

Bid Forms Addenda

Contract and Exhibits

ARTICLE II - Definitions

Administering Service Area/Unit means Public Services Area/Engineering Unit

Project means Pavement Marking Maintenance - FY2023; RFP No. 22-38

Supervising Professional means the person acting under the authorization of the manager of the Administering Service Area/Unit. At the time this Contract is executed, the Supervising Professional is: **David Dykman** whose job title is **Project Manager**. If there is any question concerning who the Supervising Professional is, Contractor shall confirm with the manager of the Administering Service Area/Unit.

Contractor's Representative means Nicholas C. Shea whose job title is Vice President.

ARTICLE III - Time of Completion

(A) The work to be completed under this Contract shall begin immediately on the date specified in the Notice to Proceed issued by the City.

- (B) The entire work for this Contract shall be completed in accordance with the scheduling requirements outlined in the "Detailed Specification for Project Schedule" found in the Contract Documents.
- (C) Failure to complete all the work within the time specified above, including any extension granted in writing by the Supervising Professional, shall obligate the Contractor to pay the City, as liquidated damages and not as a penalty, the amount(s) specified in the "Detailed Specification for Project Schedule" found in the Contract Documents for each calendar day of delay in the completion of all the work. If any liquidated damages are unpaid by the Contractor, the City shall be entitled to deduct these unpaid liquidated damages from the monies due the Contractor.

The liquidated damages are for the non-quantifiable aspects of any of the previously identified events and do not cover actual damages that can be shown or quantified nor are they intended to preclude recovery of actual damages in addition to the recovery of liquidated damages.

(D) The term of this Contract shall extend until June 30, 2023, or until satisfactory performance of all services have been performed, whichever occurs first. Subject to the availability of funding, the Contact may be extended for one one-year term, subject to the same terms and conditions, including unit prices, in the original Contract and subject to agreement by the City and the Contractor. Between January 1 and March 31, 2023, the City may provide a written request for the one-year extension to the Contractor, after which the Contractor shall have 30 days to respond in writing that it agrees to the one-year extension. Failure to respond may result in the Contract being reissued for bid.

ARTICLE IV - The Contract Sum

- (A) The City shall pay to the Contractor for the performance of the Contract, the unit prices as given in the Bid Form for the estimated bid total of:
 - Six Hundred Ninety-Eight Thousand Eight Hundred Eight and 92/100 Dollars (\$698,808.92)
- (B) The amount paid shall be equitably adjusted to cover changes in the work ordered by the Supervising Professional but not required by the Contract Documents. Increases or decreases shall be determined only by written agreement between the City and Contractor.

ARTICLE V - Assignment

This Contract may not be assigned or subcontracted any portion of any right or obligation under this contract without the written consent of the City. Notwithstanding any consent by the City to any assignment, Contractor shall at all times remain bound to all warranties, certifications, indemnifications, promises and performances, however described, as are required of it under this contract unless specifically released from the requirement, in writing, by the City.

ARTICLE VI - Choice of Law

This Contract shall be construed, governed, and enforced in accordance with the laws of the State of Michigan. By executing this Contract, the Contractor and the City agree to venue in a court of appropriate jurisdiction sitting within Washtenaw County for purposes of any action arising under this Contract. The parties stipulate that the venue referenced in this Contract is for convenience and waive any claim of non-convenience.

Whenever possible, each provision of the Contract will be interpreted in a manner as to be effective and valid under applicable law. The prohibition or invalidity, under applicable law, of any provision will not invalidate the remainder of the Contract.

ARTICLE VII - Relationship of the Parties

The parties of the Contract agree that it is not a Contract of employment but is a Contract to accomplish a specific result. Contractor is an independent Contractor performing services for the City. Nothing contained in this Contract shall be deemed to constitute any other relationship between the City and the Contractor.

Contractor certifies that it has no personal or financial interest in the project other than the compensation it is to receive under the Contract. Contractor certifies that it is not, and shall not become, overdue or in default to the City for any Contract, debt, or any other obligation to the City including real or personal property taxes. City shall have the right to set off any such debt against compensation awarded for services under this Contract.

ARTICLE VIII - Notice

All notices given under this Contract shall be in writing and shall be by personal delivery or by certified mail with return receipt requested to the parties at their respective addresses as specified in the Contract Documents or other address the Contractor may specify in writing. Notice will be deemed given on the date when one of the following first occur: (1) the date of actual receipt; or (2) three days after mailing certified U.S. mail.

ARTICLE IX - Indemnification

To the fullest extent permitted by law, Contractor shall indemnify, defend and hold the City, its officers, employees and agents harmless from all suits, claims, judgments and expenses including attorney's fees resulting or alleged to result, in whole or in part, from any act or omission, which is in any way connected or associated with this Contract, by the Contractor or anyone acting on the Contractor's behalf under this Contract. Contractor shall not be responsible to indemnify the City for losses or damages caused by or resulting from the City's sole negligence. The provisions of this Article shall survive the expiration or earlier termination of this contract for any reason.

ARTICLE X - Entire Agreement

This Contract represents the entire understanding between the City and the Contractor and it supersedes all prior representations, negotiations, agreements, or understandings whether written or oral. Neither party has relied on any prior representations in entering into this Contract. No terms or conditions of either party's invoice, purchase order or other administrative document shall modify the terms and conditions of this Contract, regardless of the other party's failure to object to such form. This Contract shall be binding on and shall inure to the benefit of the parties

to this Contract and their permitted successors and permitted assigns and nothing in this Contract, express or implied, is intended to or shall confer on any other person or entity any legal or equitable right, benefit, or remedy of any nature whatsoever under or by reason of this Contract. This Contract may be altered, amended or modified only by written amendment signed by the City and the Contractor.

ARTICLE XI – Electronic Transactions

FOR CONTRACTOR

The City and Contractor agree that signatures on this Contract may be delivered electronically in lieu of an original signature and agree to treat electronic signatures as original signatures that bind them to this Contract. This Contract may be executed and delivered by facsimile and upon such delivery, the facsimile signature will be deemed to have the same effect as if the original signature had been delivered to the other party.

FOR THE CITY OF ANNI ADDOD

FOR CONTRACTOR	FOR THE CITY OF ANN ARBOR
Ву	By Christopher Taylor, Mayor
lts:	
	By Jacqueline Beaudry, City Clerk
	Approved as to substance
	By Milton Dohoney Jr, City Administrator
	By Brian Steglitz, Interim Public Services Area Administrator
	Approved as to form and content
	Atleen Kaur, City Attorney

PERFORMANCE BOND

(1)						
	of			to as "Principa		
	and	1.4 0 ()	, a corporation dul	y authorized to	ob c	
	business in the State of Michigan (referred to an "City") for the	erred to as "Surety"),	are bound to the City of An	n Arbor, Michi	gan	
	(referred to as "City"), for \$their heirs, executors, administrators,	, the payment of t	which Principal and Surety	bind themselv	ves,	
	their neirs, executors, administrators,	successors and ass	igns, jointly and severally,	by this bond.		
(2)	The Principal has entered a written C	ontract with the City		or RFP	No.	
	and this bond is given for tha	t Contract in complia	,			
	Acts of 1963, as amended, being MC	L 129.201 et seq.		-		
(3)	Whenever the Principal is declared		default under the Contrac	t, the Surety r	may	
	promptly remedy the default or shall p					
	(a) complete the Contract in accorda					
	(b) obtain a bid or bids for submissi					
	terms and conditions, and upon dete					
	a Contract between such bidder and to pay the cost of completion less the					
	costs and damages for which Surety					
(4)	Surety shall have no obligation to the	•				
` '	Surety agrees that no change, exten					
(5)	to the work to be performed thereund					
	its obligations on this bond, and wai					
	addition to the terms of the Contract of					
(6)			·	ectronically in	الما	
(0)	6) Principal, Surety, and the City agree that signatures on this bond may be delivered electronically in lie of an original signature and agree to treat electronic signatures as original signatures that bind them to					
	this bond. This bond may be execute					
	signature will be deemed to have the					
	other party.					
		_				
SIC	SNED AND SEALED this day	of	_, 202			
/N:	ame of Surety Company)		(Name of Principal)			
(140	and of durety dompany)		(Name of Fillopal)			
D.,			Dv			
Ву	(Signature)		Ву			
	(Oignature)		(Signature)			
Its			Its			
	(Title of Office)		(Title of Office)			
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Δn	proved as to form:		Name and address of ag	ent:		
Λþ	proved as to form.		Name and address of ag	CIII.		
Atl	een Kaur, City Attorney				-	
					_	
					_	

LABOR AND MATERIAL BOND

(1)	of .	
	Michigan (referred to as "City"), for the use ar Public Acts of 1963, as amended, being MCL	which Principal and Surety bind themselves, their heirs,
(2)	The Principal has entered a written Contract v	with the City entitled
	, for RFP No given for that Contract in compliance with Act	; and this bond is No. 213 of the Michigan Public Acts of 1963 as amended;
(3)	If the Principal fails to promptly and fully repunder the Contract, the Surety shall pay those	ay claimants for labor and material reasonably required e claimants.
(4)	Surety's obligations shall not exceed the an obligation if the Principal promptly and fully pa	nount stated in paragraph 1, and Surety shall have no ays the claimants.
(5)	of an original signature and agree to treat electric this bond. This bond may be executed and de	atures on this bond may be delivered electronically in lieu ctronic signatures as original signatures that bind them to elivered by facsimile and upon such delivery, the facsimile ffect as if the original signature had been delivered to the
SIG	GNED AND SEALED this day of	, 202_
(Na	ame of Surety Company)	(Name of Principal)
Ву	(Signature)	By
lts_	(Title of Office)	(Signature) Its (Title of Office)
((Title of Office)	(Title of Office)
Ар	proved as to form:	Name and address of agent:
Atle	een Kaur, City Attorney	

GENERAL CONDITIONS

Section 1 - Execution, Correlation and Intent of Documents

The contract documents shall be signed in 2 copies by the City and the Contractor.

The contract documents are complementary and what is called for by any one shall be binding. The intention of the documents is to include all labor and materials, equipment and transportation necessary for the proper execution of the work. Materials or work described in words which so applied have a well-known technical or trade meaning have the meaning of those recognized standards.

In case of a conflict among the contract documents listed below in any requirement(s), the requirement(s) of the document listed first shall prevail over any conflicting requirement(s) of a document listed later.

(1) Addenda in reverse chronological order; (2) Detailed Specifications; (3) Standard Specifications; (4) Plans; (5) General Conditions; (6) Contract; (7) Bid Forms; (8) Bond Forms; (9) Bid

Section 2 - Order of Completion

The Contractor shall submit with each invoice, and at other times reasonably requested by the Supervising Professional, schedules showing the order in which the Contractor proposes to carry on the work. They shall include the dates at which the Contractor will start the several parts of the work, the estimated dates of completion of the several parts, and important milestones within the several parts.

Section 3 - Familiarity with Work

The Bidder or its representative shall make personal investigations of the site of the work and of existing structures and shall determine to its own satisfaction the conditions to be encountered, the nature of the ground, the difficulties involved, and all other factors affecting the work proposed under this Contract. The Bidder to whom this Contract is awarded will not be entitled to any additional compensation unless conditions are clearly different from those which could reasonably have been anticipated by a person making diligent and thorough investigation of the site.

The Bidder shall immediately notify the City upon discovery, and in every case prior to submitting its Bid, of every error or omission in the bidding documents that would be identified by a reasonably competent, diligent Bidder. In no case will a Bidder be allowed the benefit of extra compensation or time to complete the work under this Contract for extra expenses or time spent as a result of the error or omission.

Section 4 - Wage Requirements

Under this Contract, the Contractor shall conform to Chapter 14 of Title I of the Code of the City of Ann Arbor as amended; which in part states "...that all craftsmen, mechanics and laborers employed directly on the site in connection with said improvements, including said employees of

subcontractors, shall receive the prevailing wage for the corresponding classes of craftsmen, mechanics and laborers, as determined by statistics for the Ann Arbor area compiled by the United States Department of Labor. At the request of the City, any contractor or subcontractor shall provide satisfactory proof of compliance with the contract provisions required by the Section.

Pursuant to Resolution R-16-469 all public improvement contractors are subject to prevailing wage and will be required to provide to the City payroll records sufficient to demonstrate compliance with the prevailing wage requirements. A sample Prevailing Wage Form is provided in the Appendix herein for reference as to what will be expected from contractors. Use of the Prevailing Wage Form provided in the Appendix section or a City-approved equivalent will be required along with wage rate interviews.

Where the Contract and the Ann Arbor City Ordinance are silent as to definitions of terms required in determining contract compliance with regard to prevailing wages, the definitions provided in the Davis-Bacon Act as amended (40 U.S.C. 278-a to 276-a-7) for the terms shall be used.

If the Contractor is a "covered employer" as defined in Chapter 23 of the Ann Arbor City Code, the Contractor agrees to comply with the living wage provisions of Chapter 23 of the Ann Arbor City Code. The Contractor agrees to pay those employees providing Services to the City under this Contract a "living wage," as defined in Section 1:815 of the Ann Arbor City Code, as adjusted in accordance with Section 1:815(3); to post a notice approved by the City of the applicability of Chapter 23 in every location in which regular or contract employees providing services under this Contract are working; to maintain records of compliance; if requested by the City, to provide documentation to verify compliance; to take no action that would reduce the compensation, wages, fringe benefits, or leave available to any employee or person contracted for employment in order to pay the living wage required by Section 1:815; and otherwise to comply with the requirements of Chapter 23.

Contractor agrees that all subcontracts entered into by the Contractor shall contain similar wage provision covering subcontractor's employees who perform work on this contract.

Section 5 - Non-Discrimination

The Contractor agrees to comply, and to require its subcontractor(s) to comply, with the nondiscrimination provisions of MCL 37.2209. The Contractor further agrees to comply with the provisions of Section 9:158 of Chapter 112 of Title IX of the Ann Arbor City Code, and to assure that applicants are employed and that employees are treated during employment in a manner which provides equal employment opportunity.

Section 6 - Materials, Appliances, Employees

Unless otherwise stipulated, the Contractor shall provide and pay for all materials, labor, water, tools, equipment, light, power, transportation, and other facilities necessary or used for the execution and completion of the work. Unless otherwise specified, all materials incorporated in the permanent work shall be new, and both workmanship and materials shall be of the highest quality. The Contractor shall, if required, furnish satisfactory evidence as to the kind and quality of materials.

The Contractor shall at all times enforce strict discipline and good order among its employees, and shall seek to avoid employing on the work any unfit person or anyone not skilled in the work assigned.

Adequate sanitary facilities shall be provided by the Contractor.

Section 7 - Qualifications for Employment

The Contractor shall employ competent laborers and mechanics for the work under this Contract. For work performed under this Contract, employment preference shall be given to qualified local residents.

Section 8 - Royalties and Patents

The Contractor shall pay all royalties and license fees. It shall defend all suits or claims for infringements of any patent rights and shall hold the City harmless from loss on account of infringement except that the City shall be responsible for all infringement loss when a particular process or the product of a particular manufacturer or manufacturers is specified, unless the City has notified the Contractor prior to the signing of the Contract that the particular process or product is patented or is believed to be patented.

Section 9 - Permits and Regulations

The Contractor must secure and pay for all permits, permit or plan review fees and licenses necessary for the prosecution of the work. These include but are not limited to City building permits, right-of-way permits, lane closure permits, right-of-way occupancy permits, and the like. The City shall secure and pay for easements shown on the plans unless otherwise specified.

The Contractor shall give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of the work as drawn and specified. If the Contractor observes that the contract documents are at variance with those requirements, it shall promptly notify the Supervising Professional in writing, and any necessary changes shall be adjusted as provided in the Contract for changes in the work.

Section 10 - Protection of the Public and of Work and Property

The Contractor is responsible for the means, methods, sequences, techniques and procedures of construction and safety programs associated with the work contemplated by this contract. The Contractor, its agents or sub-contractors, shall comply with the "General Rules and Regulations for the Construction Industry" as published by the Construction Safety Commission of the State of Michigan and to all other local, State and National laws, ordinances, rules and regulations pertaining to safety of persons and property.

The Contractor shall take all necessary and reasonable precautions to protect the safety of the public. It shall continuously maintain adequate protection of all work from damage, and shall take all necessary and reasonable precautions to adequately protect all public and private property from injury or loss arising in connection with this Contract. It shall make good any damage, injury or loss to its work and to public and private property resulting from lack of reasonable protective precautions, except as may be due to errors in the contract documents, or caused by agents or

employees of the City. The Contractor shall obtain and maintain sufficient insurance to cover damage to any City property at the site by any cause.

In an emergency affecting the safety of life, or the work, or of adjoining property, the Contractor is, without special instructions or authorization from the Supervising Professional, permitted to act at its discretion to prevent the threatened loss or injury. It shall also so act, without appeal, if authorized or instructed by the Supervising Professional.

Any compensation claimed by the Contractor for emergency work shall be determined by agreement or in accordance with the terms of Claims for Extra Cost - Section 15.

Section 11 - Inspection of Work

The City shall provide sufficient competent personnel for the inspection of the work.

The Supervising Professional shall at all times have access to the work whenever it is in preparation or progress, and the Contractor shall provide proper facilities for access and for inspection.

If the specifications, the Supervising Professional's instructions, laws, ordinances, or any public authority require any work to be specially tested or approved, the Contractor shall give the Supervising Professional timely notice of its readiness for inspection, and if the inspection is by an authority other than the Supervising Professional, of the date fixed for the inspection. Inspections by the Supervising Professional shall be made promptly, and where practicable at the source of supply. If any work should be covered up without approval or consent of the Supervising Professional, it must, if required by the Supervising Professional, be uncovered for examination and properly restored at the Contractor's expense.

Re-examination of any work may be ordered by the Supervising Professional, and, if so ordered, the work must be uncovered by the Contractor. If the work is found to be in accordance with the contract documents, the City shall pay the cost of re-examination and replacement. If the work is not in accordance with the contract documents, the Contractor shall pay the cost.

Section 12 - Superintendence

The Contractor shall keep on the work site, during its progress, a competent superintendent and any necessary assistants, all satisfactory to the Supervising Professional. The superintendent will be responsible to perform all on-site project management for the Contractor. The superintendent shall be experienced in the work required for this Contract. The superintendent shall represent the Contractor and all direction given to the superintendent shall be binding as if given to the Contractor. Important directions shall immediately be confirmed in writing to the Contractor. Other directions will be confirmed on written request. The Contractor shall give efficient superintendence to the work, using its best skill and attention.

Section 13 - Changes in the Work

The City may make changes to the quantities of work within the general scope of the Contract at any time by a written order and without notice to the sureties. If the changes add to or deduct from the extent of the work, the Contract Sum shall be adjusted accordingly. All the changes shall be

executed under the conditions of the original Contract except that any claim for extension of time caused by the change shall be adjusted at the time of ordering the change.

In giving instructions, the Supervising Professional shall have authority to make minor changes in the work not involving extra cost and not inconsistent with the purposes of the work, but otherwise, except in an emergency endangering life or property, no extra work or change shall be made unless in pursuance of a written order by the Supervising Professional, and no claim for an addition to the Contract Sum shall be valid unless the additional work was ordered in writing.

The Contractor shall proceed with the work as changed and the value of the work shall be determined as provided in Claims for Extra Cost - Section 15.

Section 14 - Extension of Time

Extension of time stipulated in the Contract for completion of the work will be made if and as the Supervising Professional may deem proper under any of the following circumstances:

- (1) When work under an extra work order is added to the work under this Contract;
- (2) When the work is suspended as provided in Section 20;
- (3) When the work of the Contractor is delayed on account of conditions which could not have been foreseen, or which were beyond the control of the Contractor, and which were not the result of its fault or negligence;
- (4) Delays in the progress of the work caused by any act or neglect of the City or of its employees or by other Contractors employed by the City;
- (5) Delay due to an act of Government;
- (6) Delay by the Supervising Professional in the furnishing of plans and necessary information;
- (7) Other cause which in the opinion of the Supervising Professional entitles the Contractor to an extension of time.

The Contractor shall notify the Supervising Professional within 7 days of an occurrence or conditions which, in the Contractor's opinion, entitle it to an extension of time. The notice shall be in writing and submitted in ample time to permit full investigation and evaluation of the Contractor's claim. The Supervising Professional shall acknowledge receipt of the Contractor's notice within 7 days of its receipt. Failure to timely provide the written notice shall constitute a waiver by the Contractor of any claim.

In situations where an extension of time in contract completion is appropriate under this or any other section of the contract, the Contractor understands and agrees that the only available adjustment for events that cause any delays in contract completion shall be extension of the required time for contract completion and that there shall be no adjustments in the money due the Contractor on account of the delay.

Section 15 - Claims for Extra Cost

If the Contractor claims that any instructions by drawings or other media issued after the date of the Contract involved extra cost under this Contract, it shall give the Supervising Professional written notice within 7 days after the receipt of the instructions, and in any event before proceeding to execute the work, except in emergency endangering life or property. The procedure shall then be as provided for Changes in the Work-Section I3. No claim shall be valid unless so made.

If the Supervising Professional orders, in writing, the performance of any work not covered by the contract documents, and for which no item of work is provided in the Contract, and for which no unit price or lump sum basis can be agreed upon, then the extra work shall be done on a Cost-Plus-Percentage basis of payment as follows:

- (1) The Contractor shall be reimbursed for all reasonable costs incurred in doing the work, and shall receive an additional payment of 15% of all the reasonable costs to cover both its indirect overhead costs and profit;
- (2) The term "Cost" shall cover all payroll charges for employees and supervision required under the specific order, together with all worker's compensation, Social Security, pension and retirement allowances and social insurance, or other regular payroll charges on same; the cost of all material and supplies required of either temporary or permanent character; rental of all power-driven equipment at agreed upon rates, together with cost of fuel and supply charges for the equipment; and any costs incurred by the Contractor as a direct result of executing the order, if approved by the Supervising Professional;
- (3) If the extra is performed under subcontract, the subcontractor shall be allowed to compute its charges as described above. The Contractor shall be permitted to add an additional charge of 5% percent to that of the subcontractor for the Contractor's supervision and contractual responsibility;
- (4) The quantities and items of work done each day shall be submitted to the Supervising Professional in a satisfactory form on the succeeding day, and shall be approved by the Supervising Professional and the Contractor or adjusted at once;
- (5) Payments of all charges for work under this Section in any one month shall be made along with normal progress payments. Retainage shall be in accordance with Progress Payments-Section 16.

No additional compensation will be provided for additional equipment, materials, personnel, overtime or special charges required to perform the work within the time requirements of the Contract.

When extra work is required and no suitable price for machinery and equipment can be determined in accordance with this Section, the hourly rate paid shall be 1/40 of the basic weekly rate listed in the Rental Rate Blue Book published by Dataquest Incorporated and applicable to the time period the equipment was first used for the extra work. The hourly rate will be deemed to include all costs of operation such as bucket or blade, fuel, maintenance, "regional factors", insurance, taxes, and the like, but not the costs of the operator.

Section 16 - Progress Payments

The Contractor shall submit each month, or at longer intervals, if it so desires, an invoice covering work performed for which it believes payment, under the Contract terms, is due. The submission shall be to the City's Finance Department - Accounting Division. The Supervising Professional will, within 10 days following submission of the invoice, prepare a certificate for payment for the work in an amount to be determined by the Supervising Professional as fairly representing the acceptable work performed during the period covered by the Contractor's invoice. To insure the proper performance of this Contract, the City will retain a percentage of the estimate in accordance with Act 524, Public Acts of 1980. The City will then, following the receipt of the Supervising Professional's Certificate, make payment to the Contractor as soon as feasible, which is anticipated will be within 15 days.

An allowance may be made in progress payments if substantial quantities of permanent material have been delivered to the site but not incorporated in the completed work if the Contractor, in the opinion of the Supervising Professional, is diligently pursuing the work under this Contract. Such materials shall be properly stored and adequately protected. Allowance in the estimate shall be at the invoice price value of the items. Notwithstanding any payment of any allowance, all risk of loss due to vandalism or any damages to the stored materials remains with the Contractor.

In the case of Contracts which include only the Furnishing and Delivering of Equipment, the payments shall be; 60% of the Contract Sum upon the delivery of all equipment to be furnished, or in the case of delivery of a usable portion of the equipment in advance of the total equipment delivery, 60% of the estimated value of the portion of the equipment may be paid upon its delivery in advance of the time of the remainder of the equipment to be furnished; 30% of the Contract Sum upon completion of erection of all equipment furnished, but not later than 60 days after the date of delivery of all of the equipment to be furnished; and payment of the final 10% on final completion of erection, testing and acceptance of all the equipment to be furnished; but not later than 180 days after the date of delivery of all of the equipment to be furnished, unless testing has been completed and shows the equipment to be unacceptable.

With each invoice for periodic payment, the Contractor shall enclose a Contractor's Declaration - Section 43, and an updated project schedule per Order of Completion - Section 2.

Section 17 - Deductions for Uncorrected Work

If the Supervising Professional decides it is inexpedient to correct work that has been damaged or that was not done in accordance with the Contract, an equitable deduction from the Contract price shall be made.

Section 18 - Correction of Work Before Final Payment

The Contractor shall promptly remove from the premises all materials condemned by the Supervising Professional as failing to meet Contract requirements, whether incorporated in the work or not, and the Contractor shall promptly replace and re-execute the work in accordance with the Contract and without expense to the City and shall bear the expense of making good all work of other contractors destroyed or damaged by the removal or replacement.

If the Contractor does not remove the condemned work and materials within I0 days after written notice, the City may remove them and, if the removed material has value, may store the material

at the expense of the Contractor. If the Contractor does not pay the expense of the removal within 10 days thereafter, the City may, upon 10 days written notice, sell the removed materials at auction or private sale and shall pay to the Contractor the net proceeds, after deducting all costs and expenses that should have been borne by the Contractor. If the removed material has no value, the Contractor must pay the City the expenses for disposal within 10 days of invoice for the disposal costs.

The inspection or lack of inspection of any material or work pertaining to this Contract shall not relieve the Contractor of its obligation to fulfill this Contract and defective work shall be made good. Unsuitable materials may be rejected by the Supervising Professional notwithstanding that the work and materials have been previously overlooked by the Supervising Professional and accepted or estimated for payment or paid for. If the work or any part shall be found defective at any time before the final acceptance of the whole work, the Contractor shall forthwith make good the defect in a manner satisfactory to the Supervising Professional. The judgment and the decision of the Supervising Professional as to whether the materials supplied and the work done under this Contract comply with the requirements of the Contract shall be conclusive and final.

Section 19 - Acceptance and Final Payment

Upon receipt of written notice that the work is ready for final inspection and acceptance, the Supervising Professional will promptly make the inspection. When the Supervising Professional finds the work acceptable under the Contract and the Contract fully performed, the Supervising Professional will promptly sign and issue a final certificate stating that the work required by this Contract has been completed and is accepted by the City under the terms and conditions of the Contract. The entire balance found to be due the Contractor, including the retained percentage, shall be paid to the Contractor by the City within 30 days after the date of the final certificate.

Before issuance of final certificates, the Contractor shall file with the City:

- (1) The consent of the surety to payment of the final estimate;
- (2) The Contractor's Affidavit in the form required by Section 44.

In case the Affidavit or consent is not furnished, the City may retain out of any amount due the Contractor, sums sufficient to cover all lienable claims.

The making and acceptance of the final payment shall constitute a waiver of all claims by the City except those arising from:

- (1) unsettled liens;
- (2) faulty work appearing within 12 months after final payment;
- (3) hidden defects in meeting the requirements of the plans and specifications;
- (4) manufacturer's quarantees.

It shall also constitute a waiver of all claims by the Contractor, except those previously made and still unsettled.

Section 20 - Suspension of Work

The City may at any time suspend the work, or any part by giving 5 days notice to the Contractor in writing. The work shall be resumed by the Contractor within 10 days after the date fixed in the

written notice from the City to the Contractor to do so. The City shall reimburse the Contractor for expense incurred by the Contractor in connection with the work under this Contract as a result of the suspension.

If the work, or any part, shall be stopped by the notice in writing, and if the City does not give notice in writing to the Contractor to resume work at a date within 90 days of the date fixed in the written notice to suspend, then the Contractor may abandon that portion of the work suspended and will be entitled to the estimates and payments for all work done on the portions abandoned, if any, plus 10% of the value of the work abandoned, to compensate for loss of overhead, plant expense, and anticipated profit.

Section 21 - Delays and the City's Right to Terminate Contract

If the Contractor refuses or fails to prosecute the work, or any separate part of it, with the diligence required to insure completion, ready for operation, within the allowable number of consecutive calendar days specified plus extensions, or fails to complete the work within the required time, the City may, by written notice to the Contractor, terminate its right to proceed with the work or any part of the work as to which there has been delay. After providing the notice the City may take over the work and prosecute it to completion, by contract or otherwise, and the Contractor and its sureties shall be liable to the City for any excess cost to the City. If the Contractor's right to proceed is terminated, the City may take possession of and utilize in completing the work, any materials, appliances and plant as may be on the site of the work and useful for completing the work. The right of the Contractor to proceed shall not be terminated or the Contractor charged with liquidated damages where an extension of time is granted under Extension of Time - Section 14.

If the Contractor is adjudged a bankrupt, or if it makes a general assignment for the benefit of creditors, or if a receiver is appointed on account of its insolvency, or if it persistently or repeatedly refuses or fails except in cases for which extension of time is provided, to supply enough properly skilled workers or proper materials, or if it fails to make prompt payments to subcontractors or for material or labor, or persistently disregards laws, ordinances or the instructions of the Supervising Professional, or otherwise is guilty of a substantial violation of any provision of the Contract, then the City, upon the certificate of the Supervising Professional that sufficient cause exists to justify such action, may, without prejudice to any other right or remedy and after giving the Contractor 3 days written notice, terminate this Contract. The City may then take possession of the premises and of all materials, tools and appliances thereon and without prejudice to any other remedy it may have, make good the deficiencies or finish the work by whatever method it may deem expedient, and deduct the cost from the payment due the Contractor. The Contractor shall not be entitled to receive any further payment until the work is finished. If the expense of finishing the work, including compensation for additional managerial and administrative services exceeds the unpaid balance of the Contract Sum, the Contractor and its surety are liable to the City for any excess cost incurred. The expense incurred by the City, and the damage incurred through the Contractor's default, shall be certified by the Supervising Professional.

Section 22 - Contractor's Right to Terminate Contract

If the work should be stopped under an order of any court, or other public authority, for a period of 3 months, through no act or fault of the Contractor or of anyone employed by it, then the Contractor may, upon 7 days written notice to the City, terminate this Contract and recover from the City payment for all acceptable work executed plus reasonable profit.

Section 23 - City's Right To Do Work

If the Contractor should neglect to prosecute the work properly or fail to perform any provision of this Contract, the City, 3 days after giving written notice to the Contractor and its surety may, without prejudice to any other remedy the City may have, make good the deficiencies and may deduct the cost from the payment due to the Contractor.

Section 24 - Removal of Equipment and Supplies

In case of termination of this Contract before completion, from any or no cause, the Contractor, if notified to do so by the City, shall promptly remove any part or all of its equipment and supplies from the property of the City, failing which the City shall have the right to remove the equipment and supplies at the expense of the Contractor.

The removed equipment and supplies may be stored by the City and, if all costs of removal and storage are not paid by the Contractor within 10 days of invoicing, the City upon 10 days written notice may sell the equipment and supplies at auction or private sale, and shall pay the Contractor the net proceeds after deducting all costs and expenses that should have been borne by the Contractor and after deducting all amounts claimed due by any lien holder of the equipment or supplies.

Section 25 - Responsibility for Work and Warranties

The Contractor assumes full responsibility for any and all materials and equipment used in the construction of the work and may not make claims against the City for damages to materials and equipment from any cause except negligence or willful act of the City. Until its final acceptance, the Contractor shall be responsible for damage to or destruction of the project (except for any part covered by Partial Completion and Acceptance - Section 26). The Contractor shall make good all work damaged or destroyed before acceptance. All risk of loss remains with the Contractor until final acceptance of the work (Section 19) or partial acceptance (Section 26). The Contractor is advised to investigate obtaining its own builders risk insurance.

The Contractor shall guarantee the quality of the work for a period of one year. The Contractor shall also unconditionally guarantee the quality of all equipment and materials that are furnished and installed under the contract for a period of one year. At the end of one year after the Contractor's receipt of final payment, the complete work, including equipment and materials furnished and installed under the contract, shall be inspected by the Contractor and the Supervising Professional. Any defects shall be corrected by the Contractor at its expense as soon as practicable but in all cases within 60 days. Any defects that are identified prior to the end of one year shall also be inspected by the Contractor and the Supervising Professional and shall be corrected by the Contractor at its expense as soon as practicable but in all cases within 60 days. The Contractor shall assign all manufacturer or material supplier warranties to the City prior to final payment. The assignment shall not relieve the Contractor of its obligations under this paragraph to correct defects.

Section 26 - Partial Completion and Acceptance

If at any time prior to the issuance of the final certificate referred to in Acceptance and Final Payment - Section 19, any portion of the permanent construction has been satisfactorily completed, and if the Supervising Professional determines that portion of the permanent construction is not required for the operations of the Contractor but is needed by the City, the Supervising Professional shall issue to the Contractor a certificate of partial completion, and immediately the City may take over and use the portion of the permanent construction described in the certificate, and exclude the Contractor from that portion.

The issuance of a certificate of partial completion shall not constitute an extension of the Contractor's time to complete the portion of the permanent construction to which it relates if the Contractor has failed to complete it in accordance with the terms of this Contract. The issuance of the certificate shall not release the Contractor or its sureties from any obligations under this Contract including bonds.

If prior use increases the cost of, or delays the work, the Contractor shall be entitled to extra compensation, or extension of time, or both, as the Supervising Professional may determine.

Section 27 - Payments Withheld Prior to Final Acceptance of Work

The City may withhold or, on account of subsequently discovered evidence, nullify the whole or part of any certificate to the extent reasonably appropriate to protect the City from loss on account of:

- (1) Defective work not remedied;
- (2) Claims filed or reasonable evidence indicating probable filing of claims by other parties against the Contractor;
- (3) Failure of the Contractor to make payments properly to subcontractors or for material or labor:
- (4) Damage to another Contractor.

When the above grounds are removed or the Contractor provides a Surety Bond satisfactory to the City which will protect the City in the amount withheld, payment shall be made for amounts withheld under this section.

Section 28 - Contractor's Insurance

(1) The Contractor shall procure and maintain during the life of this Contract, including the guarantee period and during any warranty work, such insurance policies, including those set forth below, as will protect itself and the City from all claims for bodily injuries, death or property damage that may arise under this Contract; whether the act(s) or omission(s) giving rise to the claim were made by the Contractor, any subcontractor, or anyone employed by them directly or indirectly. Prior to commencement of any work under this contract, Contractor shall provide to the City documentation satisfactory to the City, through City-approved means (currently myCOI), demonstrating it has obtained the required policies and endorsements. The certificates of insurance endorsements and/or copies of

policy language shall document that the Contractor satisfies the following minimum requirements. Contractor shall add registration@mycoitracking.com to its safe sender's list so that it will receive necessary communication from myCOI. When requested, Contractor shall provide the same documentation for its subcontractor(s) (if any).

Required insurance policies include:

(a) Worker's Compensation Insurance in accordance with all applicable state and federal statutes. Further, Employers Liability Coverage shall be obtained in the following minimum amounts:

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Bodily Injury by Accident - $500,000 each accident
Bodily Injury by Disease - $500,000 each employee
Bodily Injury by Disease - $500,000 each policy limit
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(b) Commercial General Liability Insurance equivalent to, as a minimum, Insurance Services Office form CG 00 01 04 13 or current equivalent. The City of Ann Arbor shall be named as an additional insured. There shall be no added exclusions or limiting endorsements specifically for the following coverages: Products and Completed Operations, Explosion, Collapse and Underground coverage or Pollution. Further there shall be no added exclusions or limiting endorsements that diminish the City's protections as an additional insured under the policy. The following minimum limits of liability are required:

\$1,000,000	Each occurrence as respect Bodily Injury Liability or Property
	Damage Liability, or both combined.
\$2,000,000	Per Project General Aggregate
\$1,000,000	Personal and Advertising Injury
\$2,000,000	Products and Completed Operations Aggregate, which,
	notwithstanding anything to the contrary herein, shall be
	maintained for three years from the date the Project is completed.

- (c) Motor Vehicle Liability Insurance, including Michigan No-Fault Coverages, equivalent to, as a minimum, Insurance Services Office form CA 00 01 10 13 or current equivalent. Coverage shall include all owned vehicles, all non-owned vehicles and all hired vehicles. The City of Ann Arbor shall be named as an additional insured. There shall be no added exclusions or limiting endorsements that diminish the City's protections as an additional insured under the policy. Further, the limits of liability shall be \$1,000,000 for each occurrence as respects Bodily Injury Liability or Property Damage Liability, or both combined.
- (d) Umbrella/Excess Liability Insurance shall be provided to apply excess of the Commercial General Liability, Employers Liability and the Motor Vehicle coverage enumerated above, for each occurrence and for aggregate in the amount of \$1,000,000.
- (2) Insurance required under subsection (1)(b) and (1)(c) above shall be considered primary as respects any other valid or collectible insurance that the City may possess, including any self-insured retentions the City may have; and any other insurance the City does possess shall be considered excess insurance only and shall not be required to contribute

- with this insurance. Further, the Contractor agrees to waive any right of recovery by its insurer against the City for any insurance listed herein.
- (3) Insurance companies and policy forms are subject to approval of the City Attorney, which approval shall not be unreasonably withheld. Documentation must provide and demonstrate an unconditional and un-qualified 30-day written notice of cancellation in favor of the City of Ann Arbor. Further, the documentation must explicitly state the following: (a) the policy number(s); name of insurance company(s); name and address of the agent(s) or authorized representative(s); name(s), email address(es), and address of insured; project name; policy expiration date; and specific coverage amounts; (b) any deductibles or self-insured retentions which may be approved by the City, in its sole discretion; (c) that the policy conforms to the requirements specified Contractor shall furnish the City with satisfactory certificates of insurance and endorsements prior to commencement of any work. Upon request, the Contractor shall provide within 30 days a copy of the policy(ies) and all required endorsements to the City. If any of the above coverages expire by their terms during the term of this Contract, the Contractor shall deliver proof of renewal and/or new policies and endorsements to the Administering Service Area/Unit at least ten days prior to the expiration date.
 - (4) Any Insurance provider of Contractor shall be authorized to do business in the State of Michigan and shall carry and maintain a minimum rating assigned by A.M. Best & Company's Key Rating Guide of "A-" Overall and a minimum Financial Size Category of "V". Insurance policies and certificates issued by non-authorized insurance companies are not acceptable unless approved in writing by the City.
 - (5) City reserves the right to require additional coverage and/or coverage amounts as may be included from time to time in the Detailed Specifications for the Project.
- (6) The provisions of General Condition 28 shall survive the expiration or earlier termination of this contract for any reason.

Section 29 - Surety Bonds

Bonds will be required from the successful bidder as follows:

- (1) A Performance Bond to the City of Ann Arbor for the amount of the bid(s) accepted;
- (2) A Labor and Material Bond to the City of Ann Arbor for the amount of the bid(s) accepted.

Bonds shall be executed on forms supplied by the City in a manner and by a Surety Company authorized to transact business in Michigan and satisfactory to the City Attorney.

Section 30 - Damage Claims

The Contractor shall be held responsible for all damages to property of the City or others, caused by or resulting from the negligence of the Contractor, its employees, or agents during the progress of or connected with the prosecution of the work, whether within the limits of the work or elsewhere. The Contractor must restore all property injured including sidewalks, curbing, sodding, pipes, conduit, sewers or other public or private property to not less than its original condition with new work.

Section 31 - Refusal to Obey Instructions

If the Contractor refuses to obey the instructions of the Supervising Professional, the Supervising Professional shall withdraw inspection from the work, and no payments will be made for work performed thereafter nor may work be performed thereafter until the Supervising Professional shall have again authorized the work to proceed.

Section 32 - Assignment

Neither party to the Contract shall assign the Contract without the written consent of the other. The Contractor may assign any monies due to it to a third party acceptable to the City.

Section 33 - Rights of Various Interests

Whenever work being done by the City's forces or by other contractors is contiguous to work covered by this Contract, the respective rights of the various interests involved shall be established by the Supervising Professional, to secure the completion of the various portions of the work in general harmony.

The Contractor is responsible to coordinate all aspects of the work, including coordination of, and with, utility companies and other contractors whose work impacts this project.

Section 34 - Subcontracts

The Contractor shall not award any work to any subcontractor without prior written approval of the City. The approval will not be given until the Contractor submits to the City a written statement concerning the proposed award to the subcontractor. The statement shall contain all information the City may require.

The Contractor shall be as fully responsible to the City for the acts and omissions of its subcontractors, and of persons either directly or indirectly employed by them, as it is for the acts and omissions of persons directly employed by it.

The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the work to bind subcontractors to the Contractor by the terms of the General Conditions and all other contract documents applicable to the work of the subcontractors and to give the Contractor the same power to terminate any subcontract that the City may exercise over the Contractor under any provision of the contract documents.

Nothing contained in the contract documents shall create any contractual relation between any subcontractor and the City.

Section 35 - Supervising Professional's Status

The Supervising Professional has the right to inspect any or all work. The Supervising Professional has authority to stop the work whenever stoppage may be appropriate to insure the proper execution of the Contract. The Supervising Professional has the authority to reject all work and materials which do not conform to the Contract and to decide questions which arise in the execution of the work.

The Supervising Professional shall make all measurements and determinations of quantities. Those measurements and determinations are final and conclusive between the parties.

Section 36 - Supervising Professional's Decisions

The Supervising Professional shall, within a reasonable time after their presentation to the Supervising Professional, make decisions in writing on all claims of the City or the Contractor and on all other matters relating to the execution and progress of the work or the interpretation of the contract documents.

Section 37 - Storing Materials and Supplies

Materials and supplies may be stored at the site of the work at locations agreeable to the City unless specific exception is listed elsewhere in these documents. Ample way for foot traffic and drainage must be provided, and gutters must, at all times, be kept free from obstruction. Traffic on streets shall be interfered with as little as possible. The Contractor may not enter or occupy with agents, employees, tools, or material any private property without first obtaining written permission from its owner. A copy of the permission shall be furnished to the Supervising Professional.

Section 38 - Lands for Work

The Contractor shall provide, at its own expense and without liability to the City, any additional land access that may be required for temporary construction facilities or for storage of materials.

Section 39 - Cleaning Up

The Contractor shall, as directed by the Supervising Professional, remove at its own expense from the City's property and from all public and private property all temporary structures, rubbish and waste materials resulting from its operations unless otherwise specifically approved, in writing, by the Supervising Professional.

Section 40 - Salvage

The Supervising Professional may designate for salvage any materials from existing structures or underground services. Materials so designated remain City property and shall be transported or stored at a location as the Supervising Professional may direct.

Section 41 - Night, Saturday or Sunday Work

No night or Sunday work (without prior written City approval) will be permitted except in the case of an emergency and then only to the extent absolutely necessary. The City may allow night work which, in the opinion of the Supervising Professional, can be satisfactorily performed at night. Night work is any work between 8:00 p.m. and 7:00 a.m. No Saturday work will be permitted unless the Contractor gives the Supervising Professional at least 48 hours but not more than 5 days notice of the Contractor's intention to work the upcoming Saturday.

Section 42 - Sales Taxes

Under State law the City is exempt from the assessment of State Sales Tax on its direct purchases. Contractors who acquire materials, equipment, supplies, etc. for incorporation in City projects are not likewise exempt. State Law shall prevail. The Bidder shall familiarize itself with the State Law and prepare its Bid accordingly. No extra payment will be allowed under this Contract for failure of the Contractor to make proper allowance in this bid for taxes it must pay.

Section 43

CONTRACTOR'S DECLARATION

I hereby declare that I have not, during th	e period	, 20,	, to	, 20
, performed any work, furnished any mate	rials, sustained any	/ loss, damage	or delay, or	otherwise
done anything in addition to the regular ite	ms (or executed ch	ange orders) s	et forth in the	e Contract
titled, fo	or which I shall	ask, demand	l, sue for,	or claim
compensation or extension of time from	the City, except as	s I hereby mak	re claim for	additional
compensation or extension of time as s	<i>3</i> ′ .	,		
declare that I have paid all payroll obligation				
the above period and that all invoices rela				•
this declaration have been paid in full exc				, - ,
•	ı			
There is/is not (Contractor please circle or	ne and strike one a	s appropriate)	an itemized	statement
attached regarding a request for additional		,		
	•			
Contractor	Date			
Ву				
(Signature)				
Its				
(Title of Office)				

Past due invoices, if any, are listed below.

Section 44

CONTRACTOR'S AFFIDAVIT

The undersigned Contractor,		, represents that $\mathfrak c$	on ,
The undersigned Contractor,	e City of Ann Arbor, I	Michigan to	under
the terms and conditions of a Contrac	t titled		. The Contractor
represents that all work has now been	accomplished and the	e Contract is com	plete.
·	•		•
The Contractor warrants and certifies to	hat all of its indebtedn	ess arising by rea	ason of the Contract
has been fully paid or satisfactorily se			
for labor and material used in accomp	lishing the project, as	well as all other	claims arising from
the performance of the Contract, have	e been fully paid or s	satisfactorily settl	ed. The Contractor
agrees that, if any claim should herea	fter arise, it shall ass	ume responsibilit	y for it immediately
upon request to do so by the City of Ar	nn Arbor.		
The Contractor, for valuable considera			
any and all claims or right of lien which			
premises for labor and material used in	n the project owned by	y the City of Ann	Arbor.
This officialities from the and valuationing	الممانيين مصال البياط المائيين مصيرا	wa of the foots	
This affidavit is freely and voluntarily g	iven with full knowled	ge of the facts.	
Contractor	Date		
	2 3.13		
By			
(Signature)			
Its			
(Title of Office)			
Cub saib ad and arrang to before use	41s.:	20	
Subscribed and sworn to before me, o	n this day of	, ZU	
Notary Public ,	County, i	viichigan	
County, MI			
My commission expires on:			
wy commission expires on.			

STANDARD SPECIFICATIONS

Perform all work under this contract in accordance with the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction; the Michigan Manual of Uniform Traffic Control Devices (MMUTCD); and the MDOT Pavement Marking Standards, Pavement Marking Convoy Typicals, and Non-Freeway Maintaining Traffic Typicals, which are in effect at the date of availability of the contract documents stipulated in the Bid; and the MDOT Supplemental Specifications, and Special Provisions included in the contract. Any reference to the Michigan Department of Transportation (the "Department") in the aforementioned documentation shall also mean the City of Ann Arbor.

The Michigan Department of Transportation 2012 Standard Specification for Construction may be downloaded from the following web link:

https://mdotjboss.state.mi.us/SpecProv/specBookHome.htm

The MMUTCD can be downloaded from the following web link:

http://mdotcf.state.mi.us/public/tands/Details Web/mmutcdcompleteinteractive.pdf

The MDOT Pavement Marking Standards can be downloaded from the following web link:

http://mdotcf.state.mi.us/public/tands/Details Web/mdot pavemark std.pdf

The MDOT Pavement Marking Convoy Typicals can be downloaded from the following web link:

http://mdotcf.state.mi.us/public/tands/Details Web/mdot pavmk convoy e.pdf

The MDOT Non-Freeway Maintaining Traffic Typicals can be downloaded from the following web link:

http://mdotcf.state.mi.us/public/tands/Details Web/mdot mt nonfwv.pdf

DETAILED SPECIFICATIONS

CITY OF ANN ARBOR

DETAILED SPECIFICATION FOR

POLYMER CEMENT SURFACE PAVEMENT MARKINGS

AA:DAD 1 of 4 06/24/24

- a. Description. This work consists of installing a polymer cement surface system (PCSS) on a prepared substrate in accordance with these specifications, the plans, and/or as directed by the Engineer for the purposes of delineating dedicated or shared bicycle lanes. The resulting surface may be patterned or monolithic as required by the design plans or directed by the Engineer. Perform the work utilizing the products, processes, equipment, and certifications of Endurablend™ Systems, or an approved equal. Approved equal materials must have proven inplace history over asphalt and/or concrete and meet all the material properties and be installed in accordance with this specification. Complete all work in accordance with section 811 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, as applicable, the manufacture's requirements, and this special provision.
- **b. Materials.** Use Endurablend™ System PCSS material manufactured by Pavement Surface Coatings, LLC, 81 Ball Road, Mountain Lakes, NJ 07046. (Telephone: 866-215-6120) or approved equal. Pre-approval of an equivalent product must meet the material property requirements shown below. The color will be green and must comply with FHWA standards for daytime and nighttime chromaticity values.
 - 1. The daytime chromaticity coordinates for the color used for green colored pavement shall be as follows:

1		1 2 3		3	4	4	
Χ	У	X	У	X	У	X	У
0.230	0.754	0.266	0.500	0.367	0.500	0.444	0.555

- 2. The daytime luminance factor (Y) shall be at least 7, but no more than 35.
- 3. The nighttime chromaticity coordinates for the color used for green colored pavement shall be as follows:

•	1		2		3	4	4
X	y	Х	у	X	у	X	у
0.230	0 75 4	0.366	0.540	0 450	0.500	በ 479	0.520

4. PCSS Material Properties: The polymer cement surface or approved equal shall provide a skid and abrasion resistant surface and meet or exceed the requirements in Table 2.1.

Table 2.1 - Polymer Cement Material Properties					
Description Test Method					
Compressive Strength, (at 28 days) 2" Cube ¹	ASTM C-109	>3,200 PSI			
Tensile Strength ¹	ASTM C-190	>350 PSI			
Bond Strength with Asphalt ^{1,2}	ASTM C-1583	>250 PSI			

Table 2.1 - Polymer Cement Material Properties (continued)							
Description	Description Test Method Value						
Skid Resistance (at 60km/hr)	ASTM E-1911	>40					
Skid Resistance (at bokin/iii)	ASTM E-274	>40					
Length Change ¹	ASTM C-157	<0.024%					
Solar Reflectivity Index ^{3,4}	ASTM C-1549	>0.29					
Solal Reliectivity index*,	ASTM E-1980	70.29					
Wet Mix Flowability ⁷	ASTM C-939	20-45 sec					
Wet Mix Air Voids ⁷	Chase Meter	<6%					
Total Air Content ⁵	Microscope Analysis of Section	<5%					
Flexibility ⁶	½" Thick Beam under Static Load – Max. Deflection						

- 1) The data shown is representative of laboratory test 28 day cured samples at 50% humidity.
- 2) Prepare a test sample by overlaying 1/2" (6mm) of product on 12.5mm HMA sample.
- 3) Obtain an SRI of greater than 29 by using pigments or changing the color index of the aggregate. It is not applicable for requested color pigments.
- 4) Only applicable for projects where a LEED certification credit is a requirement of the surfacing or where specifications require a reflective surfacing.
- 5) Required to provide balance between flexibility, minimal permeability and therefore maximum durability.
- 6) Use the same loading rate as for the ASTM C-109 test above.
- 7) Quality assurance tests for site.
- 5. Chemical Admixtures/Pigments: The manufacturer shall approve the dosage rates and the conditions for use in the PCSS of any chemical admixtures and/or color pigments. Use color Warm Gray 6 for tan pavement as shown on the Endurablend Pantone® Matching System Color Chart.
- 6. Chemical Admixtures/Pigments: The manufacturer shall approve the dosage rates and the conditions for use in the PCSS of any chemical admixtures and/or color pigments.
- 7. Delivery, Storage, and Handling: Deliver material to site in weatherproof containers and store in a covered and ventilated location.
- **c.** Construction. Construct green bike lane pavement markings in accordance with manufacturer application and installation procedures, section 811 of MDOT 2012 Standard Specifications for Construction, as applicable, and as directed by the Engineer.
 - 1. Equipment: Use equipment approved by the manufacturer or an approved installer. The installer shall demonstrate that the equipment is capable of handling materials, performing the work, maintaining proper material temperature, maintaining the minimum level of required productivity, and producing a product of the specified quality and be maintained in good mechanical condition. Provide sufficient equipment to enable the prosecution of the work in accordance with the project schedule and completion of the work in the specified time. Use equipment capable of handling and transferring the dry materials

and liquids to the approved mixer without causing spillage, segregation, or contamination.

2. Mixing: The measuring and mixing operation shall be capable of producing a consistent homogeneous mix sufficient to maintain the production levels required for the work. Charge the water and dry blend into the mixer and blend to the desired consistency while maintaining effective temperatures to prevent flashing of the mix. Hand mixing in pails is not permissible.

3. Weather Limitations:

Follow manufacturer recommended pavement and air temperatures. Place PCSS only when all the following conditions are met:

- The pavement surface is dry.
- Ambient and substrate temperatures are 50° F (10° C) and rising and expected to remain above 50° F (10° C) for 6 hours
- There is no forecast of temperatures below 35° F (2° C) within 24 hours from the time of placement.
- The weather is not foggy or rainy. When rain appears imminent, all placement operations shall cease, and the work shall not resume until the threat of rain has passed.

When the ambient temperature is below 50° F (10° C), but will remain above 40° F (5° C) during paving and the substrate temperatures are 50° F (10° C) and rising, place the PCSS with the approval of Engineer and add manufacturer approved accelerators to the mix.

Take care when placing the PCSS if the substrate temperature exceeds 130° F (50° C). Closely monitor application temperatures of the substrate above 130° F (50° C) for performance during the course of application. Any observable defects occurring as a result of extreme temperature should be cause for immediate halting of placement operations.

Where the ambient paving air temperature is going to exceed 90° F (32° C) consider use of cold water and ice for the blending operation. Where the provision of cold water or replacing the part of the water requirement with ice is not possible, then use a retarder with the mix.

4. Surface Preparation and Condition: The substrate that is to receive the PCSS system shall be cleaned of sand, dirt, dust, rock, or any other debris that could prevent proper adhesion. Clean and prepare the surface by power broom, scraping, compressed air or sand-blasting, high pressure water, or other approved methods in conformance with ASTM D4263 as necessary to assure bonding between the PCSS surface course and the substrate. Do not start PCSS operations until the surface is in a condition as recommended by the manufacturer and approved by the Engineer. The Contractor at the its expense shall correct any/all surface damage resulting from cleaning/preparation work, as directed by the Engineer.

All substrate receiving PCSS shall be free of potholes, spalling, or other areas of structural deterioration. If identified in the plans, or directed by the Engineer, excavate all such areas to a depth where the substrate is structurally sound and repair with an approved method. Report structurally deficient areas not identified for repair in the plans to the Engineer.

5. Placement: The Contractor shall lay out all pavement marking areas and then for review by the Engineer. The Engineer shall approve the marking layout prior to placement of material.

Deposit PCSS uniformly on the substrate by roto-stator spray equipment. Use a spray apparatus device approved by the manufacturer and having the capability of mixing the materials at a rate to insure continuous spray operations.

Stenciled Pavement: This design requires a base coat of the material to be applied by squeegee or spray on top of asphalt or concrete pavement. Concrete pavement may require shot blasting to roughen the surface to ensure proper bonding. The base coat provides a grout line color plus seals the surface. Once the base coat has cured, apply the specified stencil pattern and spray the top coat. Remove stencil when the top coat has reached the proper consistency and allow coating to cure. Cure to traffic time is approximately 2 hours at 70 degrees. The total cured thickness should be between 1/8" and 3/16".

The stencils should be a plastic or paper pattern consistent with the design of the crosswalks.

Non-Patterned Application: This design uses a colored or base color coating without a decorative pattern. Apply the material to the asphalt or concrete pavement using roto-stator spray apparatus. Concrete pavement may require shot blasting to roughen the surface to ensure proper bonding. A smooth or textured surface can be created. A textured surface is achieved by adding aggregate to the mix or distributing a fine aggregate to the surface after application as specified in the plans. Cure to traffic time is approximately 2 hours at 70 degrees. The total cured thickness should be between 1/8" and 3/16".

- 6. Curing and Opening to Traffic: The Contractor shall take care to protect the PCSS surface course from traffic until the area is sufficiently cured. Curing time will vary depending on ambient and surface temperatures. Do not open the PCSS to traffic until it has reached sufficient compressive strength and vehicular traffic will not damage the surface. Obtain approval for opening from a representative of the manufacturer, the installer, or the Engineer. The Contractor at its expense shall correct any damage to the PCSS surface resulting from failure to protect it or open it to traffic without approval or proper cure.
- **d. Measurement and Payment.** Measure and pay for the completed work, as described, at the respective contract unit price using the following respective pay item:

Pavt Mrkg, Polymer Cement Surface, Bike Lane Green and Pavt Mrkg, Polymer Cement Surface, Warm Gray will be measured in place by the square foot and will be paid for at the contract unit price per square foot, which price shall be payment in full for all labor, equipment, and materials as specified in this provision, and as directed by the Engineer to accomplish this work.

The Engineer may delay or stop the work due to threatening weather conditions. The Contractor shall not be compensated for unused materials or downtime due to rain, or the threat of rain. The Contractor is solely responsible for repairing all damages to the work and to the site, including road infrastructures, road subgrades, and any adjacent properties, which are caused as a result of working in the rain.

The Contractor shall not work in the dark except as approved by the Engineer and only when lighting for night work is provided as detailed elsewhere in this contract. The Engineer may stop the work, or may require the Contractor to defer certain work to another day, if, in the Engineer's opinion, the work cannot be completed within the remaining daylight hours, or if inadequate daylight is present to either properly perform or inspect the work. The Contractor will not be compensated for unused materials or downtime, when delays or work stoppages are directed by the Engineer for darkness and/or inadequate remaining daylight reasons. The Contractor is solely responsible for repairing all damages to the work and to the site, including road infrastructures, road subgrades, and any adjacent properties, which are caused as a result of working in the dark.

Liquidated Damages will be assessed until the required work is completed in the current construction season. If, with the Engineer's approval, work is extended beyond seasonal limitations, the assessment of Liquidated Damages will be discontinued until the work is resumed in the following construction season.

If the construction contract is not completed within the specified period(s) including any extensions of time granted thereto, at the sole discretion of the City of Ann Arbor, this Contract may be terminated with no additional compensation due to the Contractor, and the Contractor may be forbidden to bid on future City of Ann Arbor projects for a period of at least three (3) years. If the Engineer elects to terminate the Contract, contract items paid for on a Lump Sum basis shall be paid up to a maximum percentage equal to the percentage of the contract work that has been completed.

Costs for the Contractor to organize, coordinate, and schedule all of the project work will not be paid for separately, but shall be included in the bid price of other pay items under the contract.

CITY OF ANN ARBOR

DETAILED SPECIFICATION FOR

POLYMER CEMENT SURFACE PAVEMENT MARKINGS

AA:DAD 1 of 4 06/24/24

- a. Description. This work consists of installing a polymer cement surface system (PCSS) on a prepared substrate in accordance with these specifications, the plans, and/or as directed by the Engineer for the purposes of delineating dedicated or shared bicycle lanes. The resulting surface may be patterned or monolithic as required by the design plans or directed by the Engineer. Perform the work utilizing the products, processes, equipment, and certifications of Endurablend™ Systems, or an approved equal. Approved equal materials must have proven inplace history over asphalt and/or concrete and meet all the material properties and be installed in accordance with this specification. Complete all work in accordance with section 811 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, as applicable, the manufacture's requirements, and this special provision.
- **b. Materials.** Use Endurablend™ System PCSS material manufactured by Pavement Surface Coatings, LLC, 81 Ball Road, Mountain Lakes, NJ 07046. (Telephone: 866-215-6120) or approved equal. Pre-approval of an equivalent product must meet the material property requirements shown below. The color will be green and must comply with FHWA standards for daytime and nighttime chromaticity values.
 - 1. The daytime chromaticity coordinates for the color used for green colored pavement shall be as follows:

1		2		3		4	
Χ	У	X	У	X	У	X	У
0.230	0.754	0.266	0.500	0.367	0.500	0.444	0.555

- 2. The daytime luminance factor (Y) shall be at least 7, but no more than 35.
- 3. The nighttime chromaticity coordinates for the color used for green colored pavement shall be as follows:

1		2		3		4	
X	<u>y</u>	Х	у	X	у	X	у
0.230	0 75 4	0.366	0.540	0 450	0.500	በ 479	0.520

4. PCSS Material Properties: The polymer cement surface or approved equal shall provide a skid and abrasion resistant surface and meet or exceed the requirements in Table 2.1.

Table 2.1 - Polymer Cement Material Properties					
Description	Test Method	Value			
Compressive Strength, (at 28 days) 2" Cube ¹	ASTM C-109	>3,200 PSI			
Tensile Strength ¹	ASTM C-190	>350 PSI			
Bond Strength with Asphalt ^{1,2}	ASTM C-1583	>250 PSI			

Table 2.1 - Polymer Cement Material Properties (continued)					
Description	Test Method	Value			
Skid Resistance (at 60km/hr)	ASTM E-1911	>40			
ONIC NESISTAILE (AL OUNITITIT)	ASTM E-274	>40			
Length Change ¹	ASTM C-157	<0.024%			
Solar Reflectivity Index ^{3,4}	ASTM C-1549	>0.29			
Solal Reliectivity index*,	ASTM E-1980	~0.29			
Wet Mix Flowability ⁷	ASTM C-939	20-45 sec			
Wet Mix Air Voids ⁷	Chase Meter	<6%			
Total Air Content ⁵	Microscope Analysis of Section	<5%			
Flexibility ⁶	½" Thick Beam under Static Load – Max. Deflection	≥1/2"			

- 1) The data shown is representative of laboratory test 28 day cured samples at 50% humidity.
- 2) Prepare a test sample by overlaying 1/2" (6mm) of product on 12.5mm HMA sample.
- 3) Obtain an SRI of greater than 29 by using pigments or changing the color index of the aggregate. It is not applicable for requested color pigments.
- 4) Only applicable for projects where a LEED certification credit is a requirement of the surfacing or where specifications require a reflective surfacing.
- 5) Required to provide balance between flexibility, minimal permeability and therefore maximum durability.
- 6) Use the same loading rate as for the ASTM C-109 test above.
- 7) Quality assurance tests for site.
- 5. Chemical Admixtures/Pigments: The manufacturer shall approve the dosage rates and the conditions for use in the PCSS of any chemical admixtures and/or color pigments. Use color Warm Gray 6 for tan pavement as shown on the Endurablend Pantone® Matching System Color Chart.
- 6. Chemical Admixtures/Pigments: The manufacturer shall approve the dosage rates and the conditions for use in the PCSS of any chemical admixtures and/or color pigments.
- 7. Delivery, Storage, and Handling: Deliver material to site in weatherproof containers and store in a covered and ventilated location.
- **c.** Construction. Construct green bike lane pavement markings in accordance with manufacturer application and installation procedures, section 811 of MDOT 2012 Standard Specifications for Construction, as applicable, and as directed by the Engineer.
 - 1. Equipment: Use equipment approved by the manufacturer or an approved installer. The installer shall demonstrate that the equipment is capable of handling materials, performing the work, maintaining proper material temperature, maintaining the minimum level of required productivity, and producing a product of the specified quality and be maintained in good mechanical condition. Provide sufficient equipment to enable the prosecution of the work in accordance with the project schedule and completion of the work in the specified time. Use equipment capable of handling and transferring the dry materials

and liquids to the approved mixer without causing spillage, segregation, or contamination.

2. Mixing: The measuring and mixing operation shall be capable of producing a consistent homogeneous mix sufficient to maintain the production levels required for the work. Charge the water and dry blend into the mixer and blend to the desired consistency while maintaining effective temperatures to prevent flashing of the mix. Hand mixing in pails is not permissible.

3. Weather Limitations:

Follow manufacturer recommended pavement and air temperatures. Place PCSS only when all the following conditions are met:

- The pavement surface is dry.
- Ambient and substrate temperatures are 50° F (10° C) and rising and expected to remain above 50° F (10° C) for 6 hours
- There is no forecast of temperatures below 35° F (2° C) within 24 hours from the time of placement.
- The weather is not foggy or rainy. When rain appears imminent, all placement operations shall cease, and the work shall not resume until the threat of rain has passed.

When the ambient temperature is below 50° F (10° C), but will remain above 40° F (5° C) during paving and the substrate temperatures are 50° F (10° C) and rising, place the PCSS with the approval of Engineer and add manufacturer approved accelerators to the mix.

Take care when placing the PCSS if the substrate temperature exceeds 130° F (50° C). Closely monitor application temperatures of the substrate above 130° F (50° C) for performance during the course of application. Any observable defects occurring as a result of extreme temperature should be cause for immediate halting of placement operations.

Where the ambient paving air temperature is going to exceed 90° F (32° C) consider use of cold water and ice for the blending operation. Where the provision of cold water or replacing the part of the water requirement with ice is not possible, then use a retarder with the mix.

4. Surface Preparation and Condition: The substrate that is to receive the PCSS system shall be cleaned of sand, dirt, dust, rock, or any other debris that could prevent proper adhesion. Clean and prepare the surface by power broom, scraping, compressed air or sand-blasting, high pressure water, or other approved methods in conformance with ASTM D4263 as necessary to assure bonding between the PCSS surface course and the substrate. Do not start PCSS operations until the surface is in a condition as recommended by the manufacturer and approved by the Engineer. The Contractor at the its expense shall correct any/all surface damage resulting from cleaning/preparation work, as directed by the Engineer.

All substrate receiving PCSS shall be free of potholes, spalling, or other areas of structural deterioration. If identified in the plans, or directed by the Engineer, excavate all such areas to a depth where the substrate is structurally sound and repair with an approved method. Report structurally deficient areas not identified for repair in the plans to the Engineer.

5. Placement: The Contractor shall lay out all pavement marking areas and then for review by the Engineer. The Engineer shall approve the marking layout prior to placement of material.

Deposit PCSS uniformly on the substrate by roto-stator spray equipment. Use a spray apparatus device approved by the manufacturer and having the capability of mixing the materials at a rate to insure continuous spray operations.

Stenciled Pavement: This design requires a base coat of the material to be applied by squeegee or spray on top of asphalt or concrete pavement. Concrete pavement may require shot blasting to roughen the surface to ensure proper bonding. The base coat provides a grout line color plus seals the surface. Once the base coat has cured, apply the specified stencil pattern and spray the top coat. Remove stencil when the top coat has reached the proper consistency and allow coating to cure. Cure to traffic time is approximately 2 hours at 70 degrees. The total cured thickness should be between 1/8" and 3/16".

The stencils should be a plastic or paper pattern consistent with the design of the crosswalks.

Non-Patterned Application: This design uses a colored or base color coating without a decorative pattern. Apply the material to the asphalt or concrete pavement using roto-stator spray apparatus. Concrete pavement may require shot blasting to roughen the surface to ensure proper bonding. A smooth or textured surface can be created. A textured surface is achieved by adding aggregate to the mix or distributing a fine aggregate to the surface after application as specified in the plans. Cure to traffic time is approximately 2 hours at 70 degrees. The total cured thickness should be between 1/8" and 3/16".

- 6. Curing and Opening to Traffic: The Contractor shall take care to protect the PCSS surface course from traffic until the area is sufficiently cured. Curing time will vary depending on ambient and surface temperatures. Do not open the PCSS to traffic until it has reached sufficient compressive strength and vehicular traffic will not damage the surface. Obtain approval for opening from a representative of the manufacturer, the installer, or the Engineer. The Contractor at its expense shall correct any damage to the PCSS surface resulting from failure to protect it or open it to traffic without approval or proper cure.
- **d. Measurement and Payment.** Measure and pay for the completed work, as described, at the respective contract unit price using the following respective pay item:

Pavt Mrkg, Polymer Cement Surface, Bike Lane Green and Pavt Mrkg, Polymer Cement Surface, Warm Gray will be measured in place by the square foot and will be paid for at the contract unit price per square foot, which price shall be payment in full for all labor, equipment, and materials as specified in this provision, and as directed by the Engineer to accomplish this work.

CITY OF ANN ARBOR

DETAILED SPECIFICATION FOR PERMANENT PAVEMENT MARKINGS

AA:DAD 1 of 12 06/24/22

- **a. Description.** This work consists of providing and applying retroreflective permanent pavement markings in accordance with the Michigan Manual on Uniform Traffic Control Devices (MMUTCD). Provide markings, shapes, spacing, and dimensions that conform to the Michigan Department of Transportation (MDOT) Pavement Marking Standard Plans, and any special details included with this detailed specification unless directed otherwise by the Engineer.
 - **b. Materials.** Provide materials in accordance with the following requirements.
 - 1. **Marking Materials.** Select pavement marking materials from the MDOT Qualified Product List.

Pavement marking materials must meet the general packaging and labeling requirements and applicable specific material requirements described below.

- A. **General Packaging and Labeling.** Material containers or packages must be marked on the tops and sides, using a durable, weather-resistant marking. Include the following information:
 - (1) Manufacturer's name and address,
 - (2) Description of the material,
 - (3) Product identification number,
 - (4) Lot or Batch number,
 - (5) Date of manufacture.
 - (6) Volume and
 - (7) Weight.
 - B. Packaging and Labeling for Cold Plastic and Thermoplastic Markings.
 - (1) **Cold Plastic.** Containers or packages of cold plastic material, and the core of each role must be marked with the information specified above.
 - (2) **Thermoplastic.** In addition to the above requirements, thermoplastic material must be packaged in non-stick containers, and labeled with "heat to manufacturer-recommended temperature range," or a City of Ann Arbor approved equal.

2. Glass Beads.

- A. **Glass Bead Packaging and Labeling.** Glass beads must be packaged in moisture resistant bags and labeled to include the following information:
 - (1) Manufacturer's name and address,
 - (2) Shipping point,
 - (3) Trademark or name,
 - (4) The wording "Glass Beads,"
 - (5) Specification number,
 - (6) Weight,

- (7) Lot or Batch number, and
- (8) Date of manufacture.

Glass beads must meet the general requirements of subsection B below, and the applicable requirements for specific applications of subsection A above.

B. **General Glass Bead Requirements.** Glass beads must meet the physical characteristics and gradation requirements specified in Table B-1, unless otherwise specified in subsection C below for specific applications.

Table B-1 General Glass Bead Requirements						
Physical charac	teristics (MTM 711)					
General Appearance	Transparent, clean, smooth, free from milkiness, pits, or excessive air bubbles					
Shape	Spherical with ≥75% true spheres					
Color	Colorless, very light gray, very light gray tinge, or bright white					
Index of Refraction	≥1.50					
Alkalinity	≤2.0					
Gradation Requirements (MTM 711)						
Sieve Size (No.)	Total Percent Passing					
20	100					
30	75-95					
50	15-35					
100	0-5					

- C. Glass Bead Requirements for Specific Applications. For specific applications, glass beads must be as follows:
 - (1) **Waterborne and Low Temperature Waterborne.** Standard glass beads for use with waterborne marking material and low temperature waterborne marking material require a moisture resistant coating and a silane coating.
 - (2) **Regular Dry.** Standard glass beads for use with regular dry marking material may have a moisture resistant coating, a silane coating, or both.
 - (3) **Thermoplastic.** Glass beads for thermoplastic marking material must have a moisture resistant coating.
 - (4) **Sprayable thermoplastic.** The type, gradation, and application rates for glass beads used with sprayable thermoplastic marking material must meet the thermoplastic manufacturer's recommendation.
 - (5) **Polyurea.** The type, gradation, and application rates for glass beads used with polyurea marking material must meet the thermoplastic manufacturer's recommendation.

Use a double drop system of large and standard glass beads, a double drop system of ceramic elements and standard glass beads, or an Engineer-approved alternate for recessed longitudinal markings. Ensure large glass beads meet federal specification TTB-1325 for a Type 4 glass bead.

Provide the Material Safety Data Sheets to the Engineer for required materials and supplies. Dispose of unused material and containers in accordance with the Federal Resource

Conservation Recovery Act (RCRA) of 1976 as amended, and 1994 PA 451, Part 111 Hazardous Waste Management.

Provide samples of permanent pavement marking materials on City of Ann Arbor request.

c. Construction.

1. **Equipment.** Apply longitudinal lines with certified self-propelled pavement marking equipment. The Engineer may approve other equipment for special markings or areas inaccessible to self-propelled pavement marking equipment.

Provide self-propelled equipment certified by the MDOT in accordance with the Equipment Certification Guidelines for Pavement Markings. Certification is effective for 2 years. Operate marking equipment at no greater than the certified speed. The Engineer will assume a striper, operating above the certified working speed, has operated at that speed for the entire day.

The City of Ann Arbor may inspect the equipment at any time.

Use equipment capable of uniformly applying material to the required length and width.

Provide equipment for placing centerlines, capable of applying three, 4-inch minimum width lines on a two-lane road in one pass. If applying multiple centerlines, use three spray guns positioned 6 inches on center. For two lane freeways, apply the lane line from the left lane. For freeways with at least three lanes, apply the right lane line with the right edgeline.

Use an easily adjusted, dashing mechanism to retrace existing lane or centerline markings.

Use a self-propelled pavement marker capable of marking pavement in either direction on a roadway. Use a continuous skip cycle. Do not zero or return the cycle control unit to the beginning or start of a new cycle.

Provide a distance meter to measure the length of each line.

The Engineer may check the calibration of metering devices at any time. If the Engineer determines the equipment is unsatisfactory, use other methods approved by the Engineer.

Use equipment for placing hot-applied thermoplastic and sprayable thermoplastic material that can maintain the temperature recommended by the material manufacturer.

Allow time for the Engineer to inspect traffic control devices as shown in the pavement marking convoy typicals. Correct traffic control devices not approved by the Engineer before continuing. If applying markings on a roadway closed to traffic, the traffic control devices specified in the pavement marking convoy typicals are not required, unless otherwise directed by the Engineer.

2. **General.** The City of Ann Arbor will not provide storage buildings or space for permanent pavement marking equipment or materials.

If specified on the plans, layout the permanent pavement markings. Otherwise, witness, log and lay out permanent pavement markings to replace in kind. When layout is complete, contact the Engineer to review the layout work before applying permanent pavement

markings.

Before applying pavement markings, ensure the pavement surface is clean and dry. Air blast to remove material that prevents pavement markings from adhering to the pavement surface. Remove debris or dead animals from the line track.

For solid lines, apply 4 inch and 6 inch lines, no greater than ½ inch wider than the required width. Apply solid lines with no gaps or spaces. Apply a double line as either two solid lines or one solid line and one broken line.

For new broken lines, apply $12\frac{1}{2}$ -foot long lines, no greater than 4 inches longer than the required length. Leave a $37\frac{1}{2}$ -foot gap between new broken lines. Continue this 50-foot cycle of broken line and gap, as shown on the plans. Apply new lines at the required location within a lateral tolerance of 1 inch.

When applying centerline and lane lines on new construction, retrace at least five existing adjacent skips to match the existing pavement marking cycle.

Retrace existing pavement markings using lines equal to the width and length of the original markings. For existing 4-inch, 6-inch, 8-inch, or 12-inch wide lines, retrace no greater than ½ inch wider than the existing line. If existing lines exceed the nominal widths, ensure the total line widths, existing and retraced, do not exceed 5 inches, 7 inches, 9 inches, and 13 inches.

For existing $12\frac{1}{2}$ -foot broken lines, place the retraced line to a longitudinal tolerance of no greater than 4 inches longer than the existing line. If existing lines exceed $12\frac{1}{2}$ feet long, ensure broken line lengths for existing and retraced lines do not exceed 13 feet.

Mix liquid materials during application. Do not thin materials. Uniformly apply pavement marking material at the rates shown in Table C-1.

The protection of wet markings shall be the responsibility of the Contractor, until such markings are sufficiently dry to permit traffic to travel upon them.

Prior to the start of each day's work, the Contractor **must** notify the Project Engineer, or authorized representative, of the general location where the pavement marking crew(s) will be working. No work is to begin without the Project Engineer or authorized representative on site or prior authorization to begin such work from the Project Engineer. If work has begun without notice to the Project Engineer, payment may not be made to the Contractor on items that where completed without authorization. Pavement Markings shall not be placed on Saturday, Sunday, or legal holidays unless the Project Engineer grants prior approval in writing.

The Contractor shall keep accurate daily records indicating streets marked, quantity marked, types of materials used, equipment used, and employees that worked. A copy of these records shall be provided to the City of Ann Arbor Project Engineer or authorized representative on site at the end of each work day.

3. **Traffic Control & Safety.** Proper traffic control is a mandatory requirement for working on the streets under the jurisdiction of the City of Ann Arbor. The design, placement and requirement for traffic control devices shall be those found in the current edition of the Michigan Manual of Uniform Traffic Control. The Contractor is solely responsible for maintaining traffic at all times for its operations. No work shall begin until the proper traffic

control devices are in place.

All vehicles used in the marking operations shall be equipped with fully functioning rotating or oscillating flashers, which are visible from both the front and rear of the vehicle. The pavement marking vehicle shall be equipped with an illuminated Target Arrow, Type B, capable of being visible from either the front or rear of the vehicle.

The trailing vehicle shall also be equipped with an appropriate sign visible from the rear indicating the following or equivalent legend "Wet Paint Do Not Cross Lines". The trailing vehicle shall also be equipped with an illuminated Target Arrow, Type B, which shall be visible from the rear of the vehicle.

Proper MIOSHA class safety vests shall be worn at all times according to task being performed.

The Engineer will determine the application rates by dividing the quantity of material used by the length of the line placed. The Engineer may check application rates at start up, and during work, without prior notice to the Contractor.

Load pavement marking materials on the pavement marking machine without interfering with, or delaying traffic. Operate striping equipment to prevent traffic from crossing the uncured markings. Prevent vehicles from being sprayed.

Position bead guns to direct beads into the line material and provide a uniform application of beads.

If applying markings in off-road areas open to traffic, maintain traffic to prevent vehicles from crossing the uncured markings.

Apply sharp, well-defined markings, free of uneven edges, overspray, or other visible defects, as determined by the Engineer. Ensure pavement marking lines are straight, or of uniform curvature. Pavement markings are subject to inspection by the Engineer in accordance with the Pavement Marking Inspection Guidelines. Remove pavement markings outside the required tolerances and re-apply in the correct locations. Re-apply unprotected pavement markings damaged by traffic and remove tracked lines at no additional cost to the City of Ann Arbor.

4. **Removal.** If required, remove existing longitudinal pavement markings on old pavement or curing compound on new concrete as described below.

Use a vacuum attachment operating concurrently with the blast cleaning operation to remove residue and dust when removing markings by blast cleaning within 10 feet of an open lane. Properly dispose of collected residue and dust.

A. **Removal of Less than 5,000 Feet of Pavement Markings.** Obtain the Engineer's approval for one of the following removal methods and minimize damage to the surface texture of the pavement during removal.

Use one or more of the following removal methods:

- (1) Sandblasting using air or water;
- (2) Shot blasting;
- (3) High-pressure water;
- (4) Steam or superheated water; or
- (5) Mechanical devices such as grinders, sanders, scrapers, scarifiers, and wire brushes.

Immediately clean up any debris generated. The City of Ann Arbor will not require continuous vacuuming equipment for pavement marking removal of less than 5,000 feet.

B. Removal of Greater than 5,000 Feet of Pavement Markings. Remove pavement markings using self-propelled truck mounted removal equipment. The equipment must be capable of continuously vacuuming up the removal debris. If the removal equipment cannot collect all removal debris, operate a self-propelled sweeper capable of continuously vacuuming up the removal debris immediately behind the removal equipment.

Obtain the Engineer's approval for one of the following removal methods and minimize damage to the surface texture of the pavement during removal:

- (1) Use self-propelled truck mounted removal equipment, except do not use water blasting for marking removal on asphalt pavement;
- (2) Use self-propelled truck mounted removal equipment for marking removal on concrete surfaces to be removed during construction; or
- (3) Use a self-propelled truck mounted water blaster for marking removal on concrete surfaces to remain in place.

If removing special markings, including legends, symbols, arrows, crosswalks, and stop bars, install the new markings within 5 working days.

If removing cold plastic markings, collect and dispose of removed material.

- 5. **Application, Temperature and Seasonal Restrictions.** Ensure the material application rates in Table C-1, the temperature and seasonal application restrictions in Table C-2, and the additional requirements detailed in this subsection for specific materials are met when applying any material, unless directed by the Engineer. Document moisture testing and provide results to the Engineer.
 - A. **Waterborne.** The Engineer will not decide the suitability of specific days for the application of waterborne paint. Re-apply lines washed away or otherwise damaged by rain at no additional cost to the City of Ann Arbor.

The Contractor may place waterborne pavement markings immediately on new Hot Mix Asphalt (HMA) pavement.

B. **Low Temperature Waterborne.** If seasonal limitations prevent placement of waterborne paint, the Engineer may approve low temperature waterborne paint.

Wait at least 30 days after placing the pavement surface before applying low temperature waterborne pavement markings to new HMA wearing surface. The Engineer may waive the 30-day waiting period.

		ă	avement Mark	Table C-1 Pavement Marking Material Application Rates per Mile (a, b)	e C-1 oplication Rate	es per Mile (a, b	(
		Binder				Line	Line Type			
Binder Type	Thickness	volume &		Broken	ken			So	Solid	
:	E)	bead weight	4 in	e in	8 in	12 in	4 in	ui 9	8 in	12 in
C C C C C C C C C C C C C C C C C C C	7	Binder (gal)	4	9	8	12	16	24	32	48
waterborne	<u>0</u>	Beads (lb)	32	48	64	96	128	192	526	384
Low Temperature	77	Binder (gal)	4	9	8	12	16	54	32	48
Waterborne	<u>n</u>	Beads (lb)	32	48	64	96	128	192	526	384
2.00	7	Binder (gal)	4	9	8	12	16	54	32	48
Negulal DI y	2	Beads (lb)	24	98	48	72	96	144	192	288
- it o	o	Binder (gal)	435	653	870	1,305	1,740	2,610	3,480	5,220
Tieliopiasuc	0	Beads (lb)	20	22	100	150	200	300	400	009
oitoolacomachT oldonoma	(2) 08	Binder (gal)	140	210	280	420	099	840	1,120	1,680
opi ayabie Themopiastic	(၁) ဂင	Beads (lb)	50	22	100	150	200	300	400	009
0000	OC.	Binder (gal)	9	8	11	17	22	33	44	99
rolyulea	70	Beads (lb)			1	As directed by tl	As directed by the manufacture	_		

a. Binder yield indicates the amount to produce the required mil thickness without drop on beads. b. Bead yield indicates the amount of drop on beads required for the given binder. c. Apply drop on beads for a final thickness of 40 mil.

C. **Regular Dry Paint.** If seasonal limitations prevent the placement of waterborne paint, the Engineer may approve regular dry paint.

Wait at least 14 days after placing the pavement surface before applying regular dry pavement markings to new HMA wearing surface. The Engineer may waive the 14-day waiting period.

D. **Cold Plastic.** Prepare the pavement surface and apply the cold plastic tape in accordance with the manufacturer's specifications.

Remove curing compound from new concrete surfaces before applying cold plastic tape. For pavements with two or more layers of existing overlay cold plastic marking material or any other non-compatible materials, remove the existing marking material before installing the new cold plastic markings.

Install cold plastic tape legends, crosswalks, and stop bars, as shown on the standard plans, unless otherwise required in the plans.

(1) **With Contact Cement.** Apply contact cement recommended by the cold plastic marking manufacturer and approved by the City of Ann Arbor. Mix contact cement during application. Do not thin the contact cement. Allow time for solvents to evaporate from the adhesive before applying the cold plastic marking. Apply the contact cement by a method recommended by the manufacturer and ensure it is beneath the entire marking.

Provide non-adhesive backed cold plastic for stop bars and crosswalks. Provide adhesive backed cold plastic for all other special markings.

Immediately after placement, roll transverse and special markings at least four times with a roller weighing at least 200 pounds. The Engineer will not require additional rolling for longitudinal applications if the equipment for installing the line is equipped with a roller.

(2) **Primerless – Without Surface Preparation Adhesive.** Ensure dry weather for at least 24 hours, and a dry pavement surface before applying the primerless cold plastic tape marking. Clean the pavement surface using an air compressor with at least 185 cfm air flow and 120 psi. On all pavement surfaces, prevent damage to transverse and longitudinal joint sealers.

Immediately after placement, roll transverse and special markings at least six times with a roller weighing at least 200 pounds. The Engineer will not require additional rolling for longitudinal applications if the equipment installing the line is equipped with a roller.

(3) **Primerless – With Surface Preparation Adhesive.** Use surface preparation adhesive on all primerless cold plastic tape as recommended by the manufacturer or as shown on the plans.

Ensure dry weather for at least 24 hours, and a dry pavement surface before applying the primerless cold plastic tape marking. Clean the pavement surface using an air compressor with at least 185 cfm air flow and 120 psi. On all pavement surfaces,

prevent damage to transverse and longitudinal joint sealers.

Immediately after placement, roll transverse and special markings at least six times with a roller weighing at least 200 pounds. The Engineer will not require additional rolling for longitudinal applications if the equipment installing the line is equipped with a roller.

E. **Thermoplastic.** Ensure the pavement is free of excess surface and subsurface moisture that may affect bonding. The Engineer will not decide the suitability of specific days for the application of thermoplastic.

Heat and apply the thermoplastic material within the temperature range recommended by the manufacturer.

F. **Sprayable Thermoplastic.** Ensure the pavement is free of excess surface and subsurface moisture that may affect bonding. The Engineer will not decide the suitability of specific days for the application of thermoplastic.

Heat and apply the sprayable thermoplastic material within the temperature range recommended by the manufacturer.

G. **Polyurea.** Ensure the pavement is free of excess surface and subsurface moisture that may affect bonding. The Engineer will not decide the suitability of specific days for the application of thermoplastic.

Surface preparation requirements for special, and longitudinal polyurea pavement markings depend on surface conditions.

Prepare new HMA surfaces and HMA surfaces open to traffic for 10 days or less with no oil drips, residue, debris, or temporary or permanent markings, by cleaning the marking area with compressed air.

Prepare new PCC surfaces and PCC surfaces free of oil drips, residue, and debris, temporary, or permanent markings, by removing the curing compound from the area required for pavement markings.

Prepare existing HMA or PCC surfaces that do not have existing markings, but may have oil drip areas, debris, or both, by scarifying the marking area using non-milling grinding teeth or shot blasting. The Engineer will allow the use of water blasting to scarify the marking area on PCC surfaces.

Prepare existing HMA or PCC surfaces with existing non-polyurea markings by completely removing non-polyurea markings.

Prepare existing HMA or PCC surfaces with existing polyurea marking and that may have oil drip areas, debris, or both, by using the following methods:

(1) Clean the marking area with compressed air if markings are replaced every 2 years and no visible oil drip areas or visible chipping or spalling of the existing marking exist;

- (2) Scarify the marking area using non-milling grinding teeth or shot blast if markings are replaced every 2 years and visible oil drip areas, chipping or spalling of the existing markings exist; or
- (3) Completely remove existing pavement markings if markings are replaced every 4 years.

Table C-2 Minimum Material Placement Temperature and Seasonal Restrictions (a)								
Material	Minimum Air Temperature (°F) (b)	Minimum Pavement Temperature (°F) (c)	Start Date	End Date				
Waterborne	50	50	May 1	Oct 15				
Low Temperature Waterborne	35	35	Oct 1	May 1				
Regular Dry	25	25	Oct 1	May 1				
Cold Plastic Tape – with Contact Cement	60	60	May 1	Oct 15				
Cold Plastic Tape – Primerless – without Surface Preparation Adhesive	60	60	Jun 1	Sep 1				
Cold Plastic Tape – Primerless – with Surface Preparation Adhesive	40	40	Apr 15	Nov 15				
Thermoplastic	50	50	May 1	Oct 15				
Sprayable Thermoplastic	50	50	Apr 15	Nov 15				
Polyurea	40	40	Apr 15	Nov 15				

a. See text for more detailed information.

6. **Second Application.** If the contract requires a second application of permanent pavement markings, complete two applications regardless of initial pavement marking conditions. Complete the second application from 14 days to 60 days after initial application in the same calendar year.

The Contractor may apply the second application before the required 14 days if previously approved by the Engineer.

7. **Call Back Painting.** The Engineer will provide a list of locations and limits for call back pavement marking painting, and will direct the order that the Contractor may paint the locations.

Begin call back painting work within seven days of the Engineer's notification.

8. Raised Pavement Marker (RPM) Removal. Remove RPM with City of Ann Arbor-approved equipment. During removal, do not disturb pavement more than 3 inches below the surface or more than 3 inches from the perimeter of the marker casting. The Engineer will stop marker removal if damage to the pavement exceeds these limits.

The Engineer will require patching, regardless of milling requirements, unless the Engineer determines damaged areas do not pose a hazard to traffic. Use leveling mix to patch concrete and HMA pavement that require HMA overlay.

b. Temperature must meet minimum and be rising.

c. Pavement must be dry.

Use a prepackaged, hydraulic, fast-set material for patching structural concrete, from the Qualified Products List for patching concrete pavement not requiring overlay. Patch concrete pavement, not requiring overlay in accordance with the patch material manufacturer's specifications.

Patch HMA pavement, not requiring overlay, with the epoxy adhesive used to attach raised pavement markers to the pavement.

Clean and dispose of debris from RPM removal and patching operations.

d. Measurement and Payment. The completed work, as described, will be measured and paid for at the contract unit price using the following pay items:

Pay Item	Pay Unit
Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Foot
Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	Foot
Pavt Mrkg, Polyurea, inch, (color)	
Pavt Mrkg, Polyurea, inch, Crosswalk	
Pavt Mrkg, Polyurea, inch, Stop Bar	
Pavt Mrkg, Polyurea, inch, Cross Hatching, (color)	
Pavt Mrkg, Polyurea, (legend)	
Pavt Mrkg, Polyurea, (symbol)	
Pavt Mrkg, Ovly Cold Plastic, (legend)	
Pavt Mrkg, Ovly Cold Plastic, (symbol)	
Pavt Mrkg, Ovly Cold Plastic, Speed Hump Chevron, (color)	
Pavt Mrkg, Thermopl, inch, Crosswalk	
Pavt Mrkg, Thermopl, inch, Stop Bar	
Pavt Mrkg, Thermopl, inch, Cross Hatching, (color)	
Pavt Mrkg, Thermopl, (legend)	
Pavt Mrkg, Thermopl, (symbol)	
Pavt Mrkg, Thermopl, Speed Hump Chevron, (color)	
Pavt Mrkg, Thermopl, For On-Street Parking, inch, (color)	
Pavt Mrkg, Sprayable Thermopl, inch, (color)	
Recessing Pavement Markings, Transv	
Recessing Pavement Markings, Longit	
Rem Spec Markings	. Square Foot

1. General. The Engineer will not measure the skips in dashed lines. The cost of traffic control and mobilization is included in the unit prices for other pavement marking placement pay items unless it is specified elsewhere in the Contract to be paid separately.

The cost of collecting and disposing of residue generated by the removal of cold plastic pavement markings and curing compound is included in the unit prices for other removal pay items.

The cost of glass beads is included in the unit prices for other pavement marking material.

The City of Ann Arbor will not pay separately for the contact cement and adhesives for longitudinal lines, legends, symbols, arrows, crosswalks, or stop bars.

The City of Ann Arbor will not pay for markings placed by equipment operated at speeds higher than the certified speed.

The City of Ann Arbor will not assess liquidated damages if the 30-day waiting period for placing low temperature waterborne paint is in effect and the project is complete. The City of Ann Arbor will not assess liquidated damages if the 14-day waiting period for regular dry paint is in effect and the project is complete.

The unit price for **Rem Curing Compound** includes the cost of preparing new PCC for marker application by removing the curing compound.

The Engineer will calculate pay adjustment as required by the contract when regular dry paint or low temperature waterborne paint are substituted for waterborne paint due to seasonal limitations. The adjustment applies only to projects that have completion dates after October 1, or have approved extensions of time without liquidated damages beyond October 1. Contractors who are in liquidated damages after October 1 are not eligible for the price adjustment.

2. **Call Back.** The unit price for **Call Back**, **Mobilization** includes the cost of traveling to the first call back painting location.

The Engineer will measure **Call Back**, **Intermediate Transportation** based on the map distances. The unit price for **Call Back**, **Intermediate Transportation** includes the cost of traveling between intermediate locations.

3. Pavement Marking Removal. The Engineer will measure the full removal of special markings based on the MDOT Pavement Marking Standard Plans and any special details. The City of Ann Arbor will pay for partial removal of special markings based on the dimensions of the actual removal area. The City of Ann Arbor will pay for the removal of longitudinal markings as Pavt Mrkg, Longit, Rem, of the width required. If full removal of pavement markings is required, the unit prices for Rem Spec Mrkg or Pavt Mrkg, Longit, 6 inch or Less Width, Rem, and Pavt Mrkg, Longit, Greater than 6 inch Width, Rem include the cost of removing existing longitudinal permanent markings, including tapers, and transitions.

If the Contractor removes multiple layers of pavement marking materials, the City of Ann Arbor will not pay separately for material removed beyond the first layer.

4. **Material Deficiency.** The Engineer will compute the quantity of pavement marking material and glass beads applied per unit of measurement at the end of each work day. The Engineer may include an applied length of less than 10 miles in the next day's measurement. The Engineer will determine the material usage based on field measurements and the required application rate specified in Table C-1.

The City of Ann Arbor will reduce the unit price for pavement marking material for material shortages in direct proportion to the deficient material quantity, up to 6 percent. If the daily deficiency of pavement marking material, or beads, is greater than 6 percent, the City of Ann Arbor will consider the day's work unsatisfactory and will direct the Contractor to reapply the day's markings to the thickness required by the contract, at no additional cost to the City of Ann Arbor.

APPENDIX

- Michigan Department of Transportation (MDOT) Special Provisions
 - MDOT Supplemental Specifications
 - Log of Quantities
 - A2 Vision Zero Quick Build Project Plans (not included in contract document; see separate file)
 - General Decision Number: MI20220001 06/03/2022

SPECIAL PROVISION FOR PROGRESS SCHEDULE

CFS:JJG 1 of 1

APPR:MB:LFS:01-09-18 FHWA:APPR:03-01-18

Delete the definition for Progress Schedule in subsection 101.03, on page 12 of the Standard Specifications for Construction, in its entirety and replace with the following:

Progress Schedule. A sequential listing of all the controlling operations and the estimated time the operations will remain controlling. The progress schedule is submitted by the Contractor after award and prior to starting work and is reviewed and approved by the Department. When approved, the progress schedule, or updated progress schedule, will become part of the contract.

Delete subsection 102.14, on page 22 of the Standard Specifications for Construction, in its entirety.

Delete the first sentence in the second paragraph of subsection 108.05, on page 74 of the Standard Specifications for Construction, in its entirety and replace with the following.

Submit a critical path method (CPM) schedule if required in the contract documents. Submittal of a progress schedule will not be required as the CPM schedule will replace the progress schedule.

Add the following paragraphs directly below the first paragraph of subsection 108.05.A.1, on page 74 of the Standard Specifications for Construction.

The progress schedule is to be submitted by the Contractor to the Engineer within 7 calendar days of award and prior to starting work.

The Engineer will provide documented approval, comments, or rejection within 7 calendar days of receipt of the Contractor's submittal, resubmittal, or responses.

The Contractor must resolve all responses within 7 calendar days of receipt of any Engineer requests or rejections.

If the progress schedule is not approved within 30 calendar days of contract award, the Engineer may withhold all or part of contract payments until the progress schedule is approved.

Delete the last sentence in the first paragraph of subsection 108.05.A.2, on page 74 of the Standard Specifications for Construction in its entirety.

SPECIAL PROVISION FOR DEBRIS OR MATERIALS IN TRAFFIC LANES

CFS:BRZ 1 of 1

APPR:EMB:DAJ:01-10-08 FHWA:APPR:06-01-11

Delete Subsection 104.07.B.2 on page 36 of the Standard Specifications for Construction, in its entirety and replace it with the following:

2. Construction Safety Program. Before beginning work on the project, the Contractor must submit a written "Construction Safety Program" that outlines the plan and procedures for preventing and mitigating accidents and fires on the project and meeting all health and safety requirements of the contract. Also in the program include provisions for meeting the requirements of subsection 812.03 and details for the materials and equipment that will be used to prevent construction related debris or materials from entering the open lanes of traffic and what actions, including traffic control measures, will be taken to immediately and safely remove the debris or material from the roadway. The Contractor must meet with the Engineer to discuss the "Construction Safety Program" and to develop mutual understandings to govern the administration and enforcement of the program.

Replace the second sentence in the first paragraph of Subsection 104.07.C.3 on page 37 of the Standard Specifications for Construction with the following:

The Contractor is responsible, at the Contractor's expense, to provide the necessary materials and equipment to prevent construction related debris or materials from entering the open lanes of traffic. This includes protection of traffic controls, removal of spilled materials or debris from the roadbed or drainage courses, and repair of damaged facilities necessary for public travel and safety.

SPECIAL PROVISION FOR HIGH VISIBILITY CLOTHING

SSA:JDG 1 of 1

APPR:MWB:CRB:06-18-14 FHWA:APPR:06-27-14

Add the following, to the end, of subsection 104.07.B, Safety and Health Requirements, on page 36 of the Standard Specification for Construction:

4. **Worker Visibility.** Effective November 24, 2008, all workers within the right-of-way who are exposed to traffic or to construction equipment within the work area, must wear high visibility clothing.

High visibility clothing or high visibility safety apparel is personal protective safety clothing that is intended to provide conspicuity during both daytime and nighttime usage. High Visibility safety apparel must meet the Performance Class 2 or 3 requirements of the American National Standards Institute/International Safety Equipment Association (ANSI/ISEA) 107-2004 for High-Visibility Safety Apparel and subsequent revisions thereof.

Costs incurred to comply with this requirement will be the responsibility of the Contractor.

SPECIAL PROVISION FOR HIGH VISIBILITY CLOTHING

SSA:JDG 1 of 1

APPR:MWB:CRB:05-25-18 FHWA:APPR:06-01-18

Add the following, to the end, of subsection 104.07.B, Safety and Health Requirements, on page 36 of the Standard Specification for Construction:

4. **Worker Visibility.** All workers must wear high-visibility safety apparel as specified in the MMUTCD.

Costs incurred to comply with this requirement will be the responsibility of the Contractor.

Revise the second paragraph of subsection 812.03.G.8, on page 619 of the Standard Specification for Construction to read:

Equip traffic regulators with the following:

- a. High-visibility safety apparel as specified in the MMUTCD;
- b. "Stop/Slow" or "Stop/Stop" sign paddles; and
- c. A two-way radio system and a standby back-up system, if traffic regulators are not visible to each other.

Delete the subsection 922.11.B, on page 944 of the Standard Specification for Construction in its entirety and replace with the following:

B. **Traffic Regulator's High-Visibility Safety Apparel.** Traffic regulators must wear high-visibility safety apparel as specified in the MMUTCD.

SPECIAL PROVISION FOR TEMPORARY TRAFFIC CONTROL MATERIALS

OFS:RAL 1 of 1 APPR:CRB:JFS:11-21-16

FHWA:APPR:11-22-16

Add the following subsection to subsection 105.01.B, on page 48 of the Standard Specifications for Construction:

1. Temporary traffic control materials that are covered in the Materials Quality Assurance Procedures Manual, section 4.10 *Temporary Traffic Control Certification and Acceptance Procedure*, are not required to be listed in the *Materials Source List*.

SPECIAL PROVISION FOR CONSTRUCTION STAGING AREAS

DES:LFS 1 of 1 APPR:JJG:KAS:10-06-11

FHWA:APPR:10-11-11

Add the following subsection to section 107, on page 70 of the 2012 Standard Specifications for Construction:

107.22 Construction Staging Areas. The contractor must not use any public recreation area as a staging area, marshalling yard, storage facility, or for any other construction support unless it is defined in the contract.

Public recreation areas include: parks, trails, game areas, wildlife and waterfowl refuges, playgrounds, golf courses, athletic fields or similar areas which are publically owned by public school districts, local, state, or federal governments.

Any agreements negotiated between the Contractor and the owner of the public recreation area, before or after the award of the contract will not be considered valid by the Department.

If the Engineer determines the Contractor is in non-compliance with this subsection, penalties up to and including termination of the contract, in accordance with subsection 108.12, may be enacted as well as the immediate restoration of the public recreation area at the Contractor's cost.

SPECIAL PROVISION FOR OPEN TO TRAFFIC

CFS:JJG 1 of 1 APPR:MB:DBP:07-07-17

FHWA:APPR:07-10-17

Delete subsection 107.21, on page 69 of the Standard Specifications for Construction, in its entirety and replace with the following:

107.21. Open to Traffic. The Contractor must not open the project or sections thereof to traffic until approved by the Engineer. Whenever the project or section thereof is in a condition suitable for traffic, the Engineer will determine if it is approved for traffic before project completion and the Contractor must open the project or section thereof to traffic as directed by the Engineer. To determine whether the project or section thereof is approved for traffic, the Engineer will verify that the surfacing material, shoulders, guardrails, signs, and other appurtenances are completed as required by the contract. The Engineer's approval of the project or section thereof for traffic does not constitute partial or final acceptance of the project or any part of it, or a waiver of any provision of the contract. The Contractor is not responsible for the costs of maintaining the section of the project opened for traffic.

If the Engineer approves the entire project or any section of it for traffic and the Contractor opens it to traffic before final acceptance and final payment, the Contractor must perform the remainder of the work in a manner that causes the least obstruction to traffic. The Contractor must make provisions for the safety of traffic as required by the contract. Legal weight restrictions, established by 1949 PA 300 as amended, local ordinances, or legal posting, apply to sections of the project opened to traffic.

Before the seasonal suspension, the Engineer will determine the work the Contractor must complete to bring the project to an acceptable condition for traffic and winter maintenance, including necessary traffic and erosion control measures. Until the Contractor completes this work, the Engineer will not designate the project as approved for traffic. On sections of the project opened to traffic, the Contractor must correct damage due to defective materials, to faulty workmanship, to operations of the Contractor, and to natural causes (except as provided in subsection 107.11 of the Standard Specifications for Construction), at no additional cost to the Department.

SPECIAL PROVISION FOR SCHEDULE OF LIQUIDATED DAMAGES FOR OVERSIGHT

CFS:BED 1 of 1

APPR:MB:JJG: 07-15-16 FHWA:APPR:07-29-16

Delete Table 108-1 in subsection 108.10.C.1, on page 83 of the Standard Specifications for Construction, in its entirety and replace with the following.

	Table 108-1									
Sched	lule of Liquidated Dama	ages for Oversight								
Original Cor	ntract Amount	Amount par Calandar Day \$								
From more than, \$	To and including, \$	Amount per Calendar Day, \$								
0	100,000	400								
100,000	500,000	700								
500,000	1,000,000	950								
1,000,000	5,000,000	1,350								
5,000,000	15,000,000	2,300								
Over 15	5,000,000	3,900								

SPECIAL PROVISION FOR PROMPT PAYMENT

CFS:JJG 1 of 4 APPR:JDM:DBP:06-29-15

FHWA:APPR:07-16-15

Add the following subsection to section 109, on page 106, of the Standard Specifications for Construction:

109.08 Prompt Payment.

A. Definitions.

Lower-tier subcontract. An agreement between a subcontractor of any tier and any individual or legal entity to perform a part of the subcontract work.

Lower-tier subcontractor. The individual or legal entity that performs part of the subcontract work through a lower-tier subcontract with a subcontractor.

Supplier. The individual or legal entity that agrees to provide materials or services to the prime Contractor, a subcontractor, or a lower-tier subcontractor for the performance of their contract work.

Sworn Statement. A written verification under oath reflecting all persons or entities, which have furnished labor, equipment, services or materials to a subcontractor or lower-tier subcontractor for performance of work on the project. The written verification includes union fringe benefit funds, original contract amount, current amount due, amounts paid to date and balance to finish the work for each person or entity.

Waiver of Lien. A written release and waiver of any claim or right to payment for payments actually received for labor, equipment, services or materials furnished for performance of work on the project.

The sworn statement and waiver of lien documents are used by the prime Contractor and its subcontractors for verifying payments made to lower-tier subcontractors/suppliers and are not to be submitted to the Engineer unless requested as an aid in determining an alleged prompt payment violation. These documents can be found at the following website under the Construction Field Services - Forms heading:

http://www.michigan.gov/mdot/0,1607,7-151-9622_11044_11367---,00.html

B. **Progress Payments.** For the first payment, or for a one time payment, the prime Contractor agrees to pay each subcontractor for the work associated with their subcontract no later than 10 calendar days from the date the prime Contractor receives payment from the Department.

For the second and subsequent payments, the prime Contractor agrees to pay each

CFS:JJG 2 of 4

subcontractor for the work associated with their subcontract no later than 10 calendar days from the date the prime Contractor receives payment from the Department.

The Contractor is required to provide payment information for previous payments made to all first tier subcontractors and all DBE companies (sub-subcontractors, suppliers, truckers, etc.) at any tier before the Engineer will release the third and subsequent estimates. For all subsequent progress pay estimates if 1) the Engineer payment does not include any first tier subcontractors or any DBE company payments at any tier, and 2) the previously submitted payment reporting information remains unchanged, then payment reporting in the system is not required. Reporting is required when the prime contractor makes payments to any first tier subcontractors and any DBE companies at any tier. The payment information is provided through submittal of the information via the 2124A reporting system (MERS). System information can be found at the following web link.

http://www.michigan.gov/documents/mdot/Prompt_Payment_2124A_Instructions_MER_S_366314_7.pdf

The prime Contractor must bring any concerns about the satisfactory completion of subcontractor or lower-tier subcontractor work items, to the Engineer's attention as soon as the concern is discovered. If the work meets the requirements of satisfactory completion and the prime Contractor has been paid for that work, the Engineer must determine whether:

- 1. The prime Contractor has demonstrated a valid reason for withholding payment from the subcontractor or supplier, or
- 2. The subcontractor has demonstrated a valid reason for withholding payment from the lower-tier subcontractor or supplier.

If the Engineer determines the reason for withholding payment is valid, the Engineer will process a negative estimate to withdraw the amount involved in the complaint. If payment has not been made for the work related to the complaint, the Engineer will not include those items of work on an estimate until the issue has been resolved.

The prime Contractor remains responsible to make prompt payments on this project to their subcontractors and suppliers except as noted in subsection 109.08.D of this special provision, even if the prime Contractor is in violation of other contractual obligations and the Department is withholding payment from the prime Contractor for those violations.

The prime Contractor must include language in all subcontracts that the Department prohibits prime Contractors from holding retainage from subcontractors. All provisions of this prompt payment subsection apply to all subcontracts, lower-tier subcontracts, and supplier agreements and must be included in each subcontract for the contract, including all lower-tier subcontracts and agreements.

This prompt payment provision is a requirement of 49 CFR 26.29 and does not confer third-party beneficiary rights or other direct rights to a subcontractor against the Department. This provision applies to both DBE and non-DBE subcontractors/suppliers at all tiers.

C. **Satisfactory Completion.** Progress and partial payments for contract work are issued based on the satisfactory completion of work. Satisfactory completion, for purposes of this prompt payment provision, is defined as:

- 1. Upon preliminary review, the Engineer finds the work completed in accordance with the contract, plans, and specifications; and,
- 2. Required documentation, including material certifications, payrolls, submission of 2124A, etc., has been received and reviewed and found to be acceptable by the Engineer; and,
- 3. Required subcontractor sworn statements and waivers of lien have been provided to the prime Contractor. The prime Contractor must provide notice to the Engineer if sworn statements and waivers of lien have not been received for completed work.

The Engineer will determine if the work meets the standards of satisfactory completion.

- D. Less than full payment release. The Engineer may give written approval to:
- 1. Delay or postpone payment from the time frames specified herein,
- 2. Process partial payment from the prime Contractor to a subcontractor or supplier,
- 3. Process partial payment from a subcontractor to a lower-tier subcontractor or supplier.

The unpaid portion will be held by the Department.

The parties may initiate whatever dispute resolution procedure is specified in their agreement or is available under Michigan law. If dispute resolution or litigation is selected, the actions by both parties must proceed in a timely manner. The result of the dispute resolution proceeding or litigation must be provided to the Engineer promptly upon the conclusion of the proceeding. The Engineer will release the disputed payment being held by the Department in accordance with the outcome of the proceedings.

E. **Non-Payment Claims.** The prime Contractor, subcontractor, lower-tier subcontractor or supplier must notify the alleged offending party in writing of any prompt payment violations within 30 calendar days of the date the payment was to be received. Copies of the notifications must be provided to the Engineer and the prime Contractor (only if the prime Contractor is not the offending party).

The alleged offending party must respond in writing to the claimant within 10 calendar days of receipt of the notification of failure to meet prompt payment provisions. Provide copies of the response to the Engineer, the prime Contractor (only if the prime Contractor is not the offending party), and the Engineer of Construction Field Services. The prime Contractor, subcontractor, or supplier must also provide the required sworn statements and waivers of lien from the affected subcontractor or supplier to the Engineer within 10 days of receipt of the notification. The Department will consider the failure of the alleged offending party to respond to the notification from the claimant as an admission of the prompt pay violation which may result in sanctions.

The Engineer will review the written notice and response and will verify in writing if there is a valid prompt pay violation.

Independent of all procedures and requirements in this special provision the non-payment claimant has the additional option of submitting a lien claim to the MDOT Contract Services Division. MDOT will notify the project surety of the non-payment issue. It is the responsibility of

the surety to ensure that all legitimately due payments are made. The submission of a lien claim will not nullify or affect any other requirements, obligations or procedures in this special provision.

- F. **Remedies**. When the Engineer verifies a prompt payment violation, the prime Contractor within 5 days must propose one or a combination of any of the following actions items for review and approval by the Engineer:
- 1. Issue payment to the subcontractor.
- 2. Issue payments to a subcontractor in the form of joint checks to the subcontractor and the subcontractor's lower-tier subcontractors and/or suppliers.
- 3. Issue payment directly to the subcontractor's lower-tier subcontractors or suppliers.
- 4. Request a negative estimate to withdraw the amount confirmed in the prompt payment violation.

If the prime Contractor fails to submit a timely remedy request or obtain an approved course of action within the 5 day time period, the Engineer will direct a course of action or issue a negative estimate to withdraw the amount confirmed in the prompt payment violation.

If the prime Contractor fails to fulfill the approved or directed course of action the Engineer will impose sanctions until such time as the approved or directed course of action is completed.

Any payments to a subcontractor's lower-tier subcontractor or supplier will be issued in the amounts reflected upon the subcontractor's sworn statements or in amounts independently verified by the Engineer as being due the subcontractor's lower-tier subcontractors and suppliers for work completed. Payments to a lower-tier subcontractor or supplier will be considered payment to the subcontractor directly so that payment for the same work cannot be claimed.

Any other use of joint checks must follow current Department procedures.

G. **Sanctions.** Failure to comply with any of the prompt payment requirements by the prime Contractor, subcontractor, lower-tier subcontractor, or supplier may result in sanctions against the offending party. These sanctions may include, but are not limited to: withholding of estimates on projects where prompt payment violations are confirmed; reduction or removal of prequalification; and/or suspension of bidding privileges.

SPECIAL PROVISION FOR FORCE ACCOUNT BUSINESS TAXES

CFS:RJC 1 of 1

APPR:JJG:JDM:04-14-15

FHWA:APPR:04-17-15

Delete subsection 109.05.D.8, on page 101 of the 2012 Standard Specifications for Construction in its entirety.

SPECIAL PROVISION

FOR

FORCE ACCOUNT MARK-UP FOR BOND PREMIUM, INSURANCE AND PAYROLL TAXES

CFS:JJG 1 of 1

APPR:LFS:MB:08-12-16 FHWA:APPR:08-18-16

Delete subsection 109.05.D.4, on page 97 of the Standard Specifications for Construction, in its entirety.

Delete the first paragraph of subsection 109.05.D.3, on page 96 of the Standard Specifications for Construction, in its entirety and replace with the following:

3. **Labor.** The Engineer will pay the Contractor an amount equal to the sum of the following labor costs, plus 55 percent of the sum (for road work) or 60 percent of the sum (for bridge work) to cover the costs of field and home office overhead, bond premium, insurance, payroll taxes and to provide for a reasonable profit.

SPECIAL PROVISION FOR DELAY COSTS

CFS:JJG 1 of 1

APPR:RJC:MB:02-22-17 FHWA:APPR:02-27-17

Delete subsections 109.05.E.1.a through 109.05.E.1.e, on page 102 of the Standard Specifications for Construction, in their entirety and replace with the following:

- a. Proof of cost of project staff salaries, wages, payroll taxes and insurance.
- b. Proof of escalated cost for labor, equipment, and material.
- c. Proof of material storage costs.

SPECIAL PROVISION FOR RECESSED PAVEMENT MARKINGS

PMK:MKB 1 of 2 APPR:MWB:MRB:02-05-19

FHWA:APPR:02-21-19

- **a. Description.** This work consists of providing all equipment and labor required to prepare (grooving) the pavement surface for recessed longitudinal, transverse, and guide line pavement markings in accordance with section 811 of the Standard Specifications for Construction, the plans, and this special provision.
 - **b.** Materials. None specified.
- **c. Construction.** Install a recess (groove) in accordance with the pavement marking material manufacturer's installation instructions. Ensure all recessing configurations are in accordance with the *MMUTCD* and the Department Pavement Marking Standards.
 - 1. Grooving Concrete and Hot Mix Asphalt Pavement. If there are no markings on the pavement, it is the Contractor's responsibility to provide layout for exactly where the permanent markings will be placed. If there are temporary painted pavement markings, use these layout lines as a template for the grooving operation. If there are existing permanent pavement markings in place, remove them in accordance with 12SP-812P Longitudinal Pavement Marking Removal prior to grooving operations.

Use equipment and methods approved by the manufacturer of the pavement marking material to be recessed for forming grooves in pavement surfaces. Dry-cut the grooves in a single pass using stacked diamond cutting heads on self-vacuuming equipment capable of producing a finished groove ready for pavement marking material installation.

Ensure that the bottom of the groove has a fine corduroy finish. If a coarse tooth pattern results, increase the number of blades and decrease the spaces on the cutting head until the required finish is achieved.

2. Groove Dimensions. Ensure grooves for recessed pavement markings are in accordance with the following:

Longitudinal Markings

Groove Width: Material width +1 inch, (±1/8 inch)

Groove Depth: As recommended by the manufacturer, (±5 mils)
Groove Position: Center/Lane Lines: 2 inches from joint line, (±1/8 inch)

Edge Lines: On lane, 2-4 inches in from the joint line, (±1/8 inch) Edge Lines for 14 foot paved lanes: as directed by the Engineer

Transverse Markings - Stop Bars, Crosswalks, and Cross Hatching

Groove Width: Material width +1 inch, (±1/8 inch)

Groove Depth: As recommended by the manufacturer, (±5 mils)

PMK:MKB 2 of 2 02-05-19

Groove Position: In the exact location where the transverse marking will be

placed

Transverse Markings - Legends

Groove Width: For legends groove a rectangle encompassing the entire

The size of the rectangle must be the legend

dimensions +1 inch (±1/8 inch) on each side.

Groove Depth: As recommended by the manufacturer, (±5 mils)

Groove Position: In the exact location where the transverse marking will be

placed

Transverse Markings - Symbols

Groove Width: When grooving for arrow heads use a grinding head not larger

> than 7 inches in width and match the shape of the arrow head as closely as possible. For arrow stems and other symbols groove to the material shape +1 inch (±1/8 inch) on each side. If the symbol shape cannot be followed, such as the bicycle and arrow symbols, determine an acceptable grooving layout with

the Engineer.

Groove Depth: As recommended by the manufacturer, (±5 mils)

Groove Position: In the exact location where the transverse marking will be

placed

Guide Line Markings

Groove Width: Material width +1 inch, $(\pm 1/8 \text{ inch})$

Groove Depth: As recommended by the manufacturer, (±5 mils)

Groove Position: In the exact location where the guide line markings will be

placed

- 3. Placing Recessed Pavement Markings. Place the pavement marking material in the grooves within 24 hours of the grooves being made. Ensure the grooves are clean and dry prior to placing pavement marking material. Locate the groove so the entire marking can be placed within the groove.
- d. Measurement and Payment. The completed work, as described, will be measured and paid for at the contract unit price using the following pay items:

Pay Item	Pay Unit
Recessing Pavt Mrkg, Longit	Foot
Recessing Pavt Mrkg, Transv	Square Foot
Recessing Pavt Mrkg, Guide Line	

Recessing Pavt Mrkg, Longit; Recessing Pavt Mrkg, Transv; and Recessing Pavt Mrkg, Guide Line includes layout of the pavement markings, when required, and all work as described in this special provision.

Permanent pavement marking materials, temporary retroreflective pavement markings required for traffic control, and removal of existing permanent pavement markings will be paid for separately using the appropriate pay items.

SPECIAL PROVISION FOR WET REFLECTIVE LIQUID APPLIED PAVEMENT MARKINGS

PMK:MKB 1 of 2 APPR:MWB:DBP:10-23-19

FHWA:APPR:10-29-19

a. Description. This work consists of furnishing and installing wet reflective (WR) optics and liquid applied pavement marking materials.

b. Materials.

1. WR Optics. Select WR optics from the Qualified Products List (QPL) (920.02C) or a Department approved alternative that meets the requirements in Table 1:

Average Initial Retroreflectivity at 30 meter geometry in mcd/lux/m² Color Test Method White Yellow Dry (ASTM E 1710) 700 500 Wet Recovery (ASTM E 2177) 250 200 Wet Continuous (ASTM E 2832) 100 75

Table 1: WR Markings

Ship the material to the job site in sturdy containers marked in accordance with subsection 920.01.A of the Standard Specifications for Construction.

Submit to the Engineer prior to the start of work:

- A. For materials other than WR waterborne and WR sprayable thermoplastic, submit the Manufacturer's recommended application rate of the beads, WR optics, and liquid applied pavement marking binder to be used on the project. If the Manufacturer's recommended application rate differs from the specified rate in Table 811-1 of the Standard Specifications for Construction, the Manufacturer's recommended rate supersedes the table values. For WR waterborne and WR sprayable thermoplastic, refer to section c. of this special provision for application rates.
- B. Certification from the Manufacturer that when applied in accordance with their application recommendations the WR optics meet the requirements shown in Table 1 above.
- 2. Binder. Provide a liquid pavement marking product of the binder type specified in the contract documents from section 811 of the Qualified Products List or as specified by special provision, or use an alternative binder as approved by the Engineer.

c. Construction. For WR waterborne, place the material at a thickness of 18 mils while driving at a maximum rate of 8 miles per hour. Drop WR optics from the forward-most bead applicator gun at a rate of 4 pounds per gallon. Drop standard glass beads at a rate of 6 pounds per gallon from the rear bead applicator gun.

For WR sprayable thermoplastic, place the material at a thickness of 60 mils while driving at a maximum rate of 10 miles per hour. Drop WR optics from the forward-most bead applicator gun at a rate of 80 pounds per mile. Drop standard glass beads at the normal rate for sprayable thermoplastic from the rear bead applicator gun. While placing the WR sprayable thermoplastic, another follow truck is needed in addition to what is shown on the Pavement Marking Convoy Typicals.

For all other materials place the binder, beads, and WR optics in accordance with the Manufacturers' recommendations and sections 811 and 920 of the Standard Specifications for Construction, except as noted above.

d. Measurement and Payment. The completed work, as described, will be measured and paid for at contract unit prices using the following pay items:

Pay Item

Pay Unit

Pavt Mrkg, Wet Retrflec (binder), __ inch, (color)Foot

SPECIAL PROVISION FOR WITNESS AND LOG OF PERMANENT PAVEMENT MARKINGS

PMK:MKB 1 of 1 APPR:MWB:CRB:06-21-17

FHWA:APPR:07-20-17

Delete the second paragraph in subsection 811.03.B, on page 589 of the Standard Specifications for Construction, in its entirety and replace with the following:

For any portion of the project that pavement marking plan sheets or details are included, layout the permanent pavement markings according to the pavement marking plans. If the contract documents call for Witness and Log, the Contractor must witness and log the existing markings in accordance with the following.

Provide a pavement marking layout plan consisting of aerial imagery, computer generated, and/or hand sketches with legibly handwritten or documented dimensions. When using aerial imagery, the pavement markings must be sketched in for any sections where they are not clearly visible. Required dimensions include turn lane storage lengths, taper lengths, stop bar location as measured from the centerline of the intersection or the crosswalk markings (if present), symbol and legend locations, crosshatching location and spacing, longitudinal line style changes, and any other dimensions required to return markings to the pre-construction configuration. The layout plan must additionally indicate lane widths of all lanes, shoulders, bike lanes, and other features at all transition points where these elements are added and/or removed and at every 1/2 mile interval where there are no changes to pavement widths and/or the pavement marking configuration.

Provide the pavement marking layout plan to the Engineer prior to pavement removal operations and/or any pavement markings being disturbed. If any changes are needed the Engineer will mark up a copy of the pavement marking layout plan and initial any changes. The Engineer will provide any mark ups and documented approval of the pavement marking layout plan to the Contractor within 10 calendar days of initial receipt.

Revise the last pay item in the list of pay items in subsection 811.04, on page 598 of the Standard Specifications for Construction to read:

Witness, Log, \$1000.00	Ol	Há	a	ļ
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SPECIAL PROVISION FOR PERMANENT PAVEMENT MARKINGS

PMK:MKB 1 of 3

1 of 3 APPR:MWB:CRB:02-05-19

FHWA:APPR:02-21-19

Add the following to the end of the list of materials in subsection 811.02, on page 588 of the Standard Specifications for Construction:

Modified Urethane Pavement Marking Material	920
Preformed Thermoplastic Pavement Marking Material	920

Ensure preformed thermoplastic materials for surface applications have a thickness of 90 mils and preformed thermoplastic materials for recessed applications have a thickness of 125 mils.

Add the following paragraph after the first paragraph of subsection 811.03.B, on page 589 of the Standard Specifications for Construction:

If pavement marking plan sheets and/or Witness, Log are included in the project the markings will be laid out by the Contractor prior to the permanent markings being applied. Layout is considered incidental to placement of permanent pavement markings. Provide the Engineer documented notice at least 2 calendar days prior to the Contractor pavement marking crew arriving onsite to layout and place the permanent pavement markings to enable the Engineer or a representative being onsite for review of the layout prior to the marking application. Notify the Engineer if it is discovered during layout that the pavement width or geometry has been altered or is different from the planned or logged configuration. The Contractor and Engineer will discuss and document the resolution for marking layout in such areas. If pavement marking plans and/or Witness, Log are not in the project, it is the responsibility of the Engineer to provide layout for the permanent pavement markings.

Add the following rows to Table 811-1 of subsection 811.03.B, on page 591 of the Standard Specifications for Construction:

Polvurea	20	Binder (gal)	5.5	8.25	11	17	22	33	44	66
Polyurea	20	Bead (lb)		,	As direc	ted by tl	ne manı	ufacture	r	
Modified	20	Binder (gal)	5.5	8.25	11	17	22	33	44	66
Urethane	20	Bead (lb)		1	As direc	ted by tl	ne manı	ufacture	r	

Add the following paragraph after the fifth paragraph on page 592 of subsection 811.03.B, of the Standard Specifications for Construction:

Beads are not to be placed in liquid shadow markings.

Add the following subsections after the last paragraph of subsection 811.03.D.7.c, on page 595 of the Standard Specifications for Construction:

8. **Modified Urethane.** Ensure the pavement is free of excess surface and subsurface moisture that may affect bonding. The Engineer will not decide the suitability of specific days for the application of modified urethane.

Surface preparation requirements for special, and longitudinal modified urethane pavement markings depend on surface conditions.

Prepare new HMA surfaces and HMA surfaces open to traffic for 10 days or less with no oil drips, residue, debris, or temporary or permanent markings, by cleaning the marking area with compressed air.

Prepare new PCC surfaces and PCC surfaces free of oil drips, residue, and debris, temporary, or permanent markings, by removing the curing compound from the area required for pavement markings.

Prepare existing HMA or PCC surfaces that do not have existing markings, but may have oil drip areas, debris, or both, by scarifying the marking area using non-milling grinding teeth or shot blasting. The Engineer will allow the use of water blasting to scarify the marking area on PCC surfaces.

Prepare existing HMA or PCC surfaces with existing pavement markings and that may have oil drip areas, debris, or both, by using the following methods:

- a. For existing liquid pavement markings, scarify the proposed marking area using non-milling grinding teeth or shot blast. Occasionally existing liquid pavement markings will require complete removal, which will be determined by the Engineer.
- b. For existing cold plastic markings, completely remove the existing markings.
- 9. **Preformed Thermoplastic.** Ensure the pavement is free of excess surface and subsurface moisture that may affect bonding. The Engineer will not decide the suitability of specific days for the application of preformed thermoplastic.

Heat and apply the preformed thermoplastic material as recommended by the manufacturer. Feather all edges of the material with a putty knife while the preformed thermoplastic is still soft.

Modify the following row in Table 811-2 of subsection 811.03.D, on page 596 of the Standard Specifications for Construction to read as follows:

Thermoplastic	50	50	May 1	Nov. 1

Add the following rows to Table 811-2 of subsection 811.03.D, on page 596 of the Standard Specifications for Construction:

PMK:MKB 3 of 3

Modified Urethane	40	40	Apr. 15	Nov. 15
Preformed Thermoplastic	35	35	Apr. 15	Nov. 15

Add the following pay items to the list of pay items in subsection 811.04, on page 598 of the Standard Specifications for Construction:

Pavt Mrkg, Modified Urethane, (symbol)	Each
Pavt Mrkg, Modified Urethane, (legend)	
Pavt Mrkg, Modified Urethane, inch, Crosswalk	
Pavt Mrkg, Modified Urethane, inch, Stop Bar	Foot
Pavt Mrkg, Modified Urethane, inch, Cross Hatching, (color)	Foot
Pavt Mrkg, Modified Urethane, inch, (color)	Foot
Pavt Mrkg, Ovly Cold Plastic, inch, Shadow Tape, Black	
Pavt Mrkg, Ovly Cold Plastic, inch, Wet Reflective, (color)	Foot
Pavt Mrkg, Preformed Thermoplastic, (symbol)	Each
Pavt Mrkg, Preformed Thermoplastic, (route) Route Shield, foot by foot	Each
Pavt Mrkg, Preformed Thermoplastic, (legend)	Each
Pavt Mrkg, Preformed Thermoplastic, inch, Crosswalk	Each
Pavt Mrkg, Preformed Thermoplastic, inch, Stop Bar	
Pavt Mrkg, Preformed Thermoplastic, inch, Cross Hatching, (color)	
Pavt Mrkg, (binder), inch, Shadow Liquid, Black	Foot
Pavt Mrkg, Wet Reflective Waterborne, 2nd Application, inch, (color)	

MICHIGAN DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION FOR ON-STREET PARKING PAVEMENT MARKINGS

PMK:MKB 1 of 1 APPR:MWB:CRB:06-21-17

FHWA:APPR:07-21-17

- **a. Description.** This work consists of preparing the pavement surface and installing white on-street parking pavement markings of the appropriate width and length as specified in this special provision and on the pavement marking plans.
- **b. Materials.** Provide a liquid pavement marking product of the binder type specified in the contract from section 811 of the Qualified Products List or as specified by special provision, or use an alternative binder as approved by the Engineer.
- **c. Construction.** Complete this work in accordance with this special provision, the contract, applicable sections of the standard specifications, and as directed by the Engineer.

Prepare the surface in accordance with section 811 of the Standard Specifications for Construction, and place parking zone pavement markings as detailed in the pavement marking plans. Place the binder material and glass beads in accordance with section 811 of the Standard Specifications for Construction and the manufacturer's requirements.

d. Measurement and Payment. The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

Pay Item

Pay Unit

Pavt Mrkg, (binder), For On-Street Parking, 4 inch, WhiteFoot

MICHIGAN DEPARTMENT OF TRANSPORTATION

SUPPLEMENTAL SPECIFICATION FOR ERRATA TO THE 2012 STANDARD SPECIFICATIONS

1 of 30 03-04-19

Page	Subsection	Errata
N/A	N/A	In the very beginning of the book on the page where we list the MDOT publications included by reference delete the following manual. "Work Zone Safety and Mobility Manual"
N/A*	N/A	In the very beginning of the book on the page where we list the MDOT publications included by reference replace the Field Manual of Soil Engineering (out of Print) with the following manual. "Geotechnical Manual"
3	101.02	Modify the abbreviation reading "AIS" to read "AISI".
4*	101.02	Delete the following abbreviations and the long forms MDELEG MDNRE Add the following abbreviations and the long forms MDNR Michigan Department of Natural Resources MDEGLE Michigan Department of Environmental Great Lakes, and Energy MDLARA Michigan Department of Licensing and Regulatory Affairs NESC National Electrical Safety Code
27	103.02.B.2	Change the last sentence of the first paragraph to read "For decreases below 75 percent, the maximum allowable payment for work performed, including any adjustment, will not exceed an amount equal to 75 percent of the original contract quantity times the contract unit price."
34	104.05	The first sentence of this subsection should read "If the Contractor performs unauthorized work (work performed without the inspections required by the contract, extra work performed without Department approval, work performed contrary to the inspectors direction, or work performed while under suspension by the inspector), the Engineer may reject the unauthorized work."
46	104.12	Add the following to the end of the first paragraph "The use of right-of-way in wetlands and floodplains, or the crossing of water courses by construction equipment is prohibited."
53	105.09	Add the following to the end of the second paragraph "Any specifically produced material not purchased by the Department, will remain the

		2 of 30 03-04-19
Page	Subsection	Errata Contractors and must be removed from the project prior to final acceptance."
56	107.02.B.2	This sentence should read "U.S.Army Corps of Engineers' Section 404, Dredge and Fill; and Section 10, Navigable Waterway."
56*	107.02.B	Add the subsection reading as follows: "3. U.S. Coast Guard Section 9, Navigable Waterway."
		Change "MDNRE" to "MDEGLE" in this subsection.
64	107.12	Change the first sentence of the first paragraph to read: "For protection of underground utilities and in accordance with 2013 PA 174, the Contractor must notify Miss Dig at least 3 work days, excluding Saturdays, Sundays and holidays, before beginning each excavation in areas where public utilities have not been previously located."
65*	107.15.A	Change "MDNRE" to "MDEGLE" in four instances in this subsection.
66	107.15.A.3	Add the following to the end of the paragraph "Note that a burn permit from the MDNR is required for any open burning whenever the ground is not snow covered. Any individuals that allow a fire to escape will be in violation of the Natural Resources and Environmental Protection Act and will be required to reimburse the costs of suppressing the wild fire."
67*	107.16	The third sentence should read "In State Forests, the Contractor must contact the local Unit Manager, Forest Management Division, MDNR, regarding the work to be performed within or adjacent to the forest land."
		Delete the last sentence of the first paragraph of this subsection.
80	108.08.F	Delete the second paragraph in its entirety.
80	108.08.G	Add the following new subsection: "G. The Contractor may propose and the Engineer may approve another equitable method, supported by an acceptable rationale to determine time extensions for any of the excusable delays listed in subsection 108.08.
83	108.10.C	Change the last sentence of the first paragraph to read: "The liquidated damages may contain one or more components of damages added together."
83	108.10.C.1	In Table 108-1 delete the last row of the table and replace it with the following: ≥50,000,000 4,500
102	109.05.E.1	Change the second sentence of the third paragraph to read: "Provide the content specified in subsection 109.05.D.11 for the applicable items in this statement and as follows:"

Page	Subsection	Errata
107	150.04	Change the following pay item reading "Mobilization, Max" to read "Mobilization, Max (dollar)" at nine locations throughout the subsection.
112	201.03.A.3.b	Change "MDNRE" to "MDNR" in three instances in this subsection.
123	204.04	Change the following pay item reading "Structures, Rem" to read "Structures, Rem (Structure No.)"
123	204.04	Change the following pay item reading "Concrete Barrier, Rem" to read "Conc Barrier, Rem"
150*	208.01	Change "MDNRE" to "MDEGLE" in this subsection.
180	308.03.A	Change the first sentence of the second paragraph to read: "Do not operate equipment required to place backfill directly on geotextile products."
185	401.03.A	Change the first sentence of the second paragraph to read: Where unstable soil conditions, or obstructions other than rock, require excavation of the trench below the elevation detailed on the plans; undercut, backfill, and compact the trench as directed by the Engineer.
188	401.03.H	Change the second sentence of the paragraph to read "Jack steel pipes in place in accordance with subsection 401.03.G".
189	401.03.N	Add the following sentence to the end of the first paragraph "Where possible, maintain the stream flow thru a temporary channel or temporary culvert."
		The second sentence of the second paragraph should read "Direct water from the dewatering operations through a filter bag before discharging to an existing drainage facility."
189	401.04	Change the fourth pay item from the end of the list to read as follows: "Culv, Reinf Conc Ellip, (shape) Cl, (rise) inch x (span) inch".
190	401.04	Change the fourth pay item from the end of the list to read as follows: "Steel Casing Pipe, inch, Tr Det"
195	402.03.C	Change the third sentence of the first paragraph to read as follows: "Wrap pipe joints, with a diameter greater than 24 inches, using geotextile blanket."
200	402.04	Change the third pay item from the top of the list to read as follows: "Sewer, Cl, inch, Jacked in Place"
200	402.04.A	Change the last sentence of the subsection to read as follows: "The unit price for Sewer and Sewer , Reinf Conc , Ellip includes the cost of excavation, backfill, geotextile blanket and mandrel testing."

Change the first sentence of the second paragraph of this subsection to

226

406.03.G.2

read:

		5 of 30 03-04-19
Page	Subsection	Frrata "Fill the space between the box culvert joints during placement of box sections with closed-cell rubber extrusion type gaskets in accordance with ASTM C 990."
226	406.04.A.9	Change the sentence to read: "Providing plan modifications including design, additional plan quantities and pay items to accommodate any changes to the precast units as shown on the plans."
226*	406.04.A	Add the following paragraph after the last paragraph of the subsection: "The substructure design is specific to the three-sided or arch culvert detailed on the plans. The Contractor must use approved MDOT service vendors qualified in Hydraulics, Geotechnical Engineering Services, and Short and Medium Span Bridges to perform the required design and plan modifications, as directed by the Engineer, if the Contractor selects a culvert shape different than shown on the plans."
227	406.04.B	Add the following new item in the list of items in this subsection:Headwalls, wingwalls, aprons, and curtain walls, precast or cast-in-place;
		Renumber the exist items 2 through 4 in this list to read 3 through 5.
		Delete existing item numbered 5 and replace with the following: 6. Inserts for bars and connection hardware; and
		Renumber the existing item 6 in this list to read 7.
227	406.04.B	Delete the first and second paragraphs following the list of items in this subsection and replace with the following: "The Department will pay separately for cast-in-place concrete, other than for culvert segments, wing walls, and headwalls; excavation; protective coating; providing and placing backfill material; by plan quantity in accordance with subsection 109.01.A."
239	501.03.C.6	The first sentence of this subsection should read "Except as specified in subsection 501.03.C.4, removing HMA surface applies to removing HMA overlying a material designated for removal or that is required to remain in place."
247	501.03.O	Change footnote e in Table 501-5 to read: "Flushing severe enough to significantly affect surface friction (Friction Number <35)."
249	501.04.H	The first sentence of this subsection should read "The Engineer will measure, and the Department will pay for removing HMA surface, no greater than 12 inches thick, overlying a material designated for removal or that is required to remain in place, as HMA Surface, Rem ."

Dana	Oubaatian	12SS-001A-19 6 of 30 03-04-19
Page	Subsection	The second paragraph of this subsection should read "The Engineer will measure, and the Department will pay for removing HMA surface, greater than 12 inches thick, overlying a material designated for removal or that is required to remain in place, as Pavt, Rem in accordance with subsection 204.04."
257	503.03.E	Delete this subsection in its entirety.
265	504.03.E.3	Delete this subsection in its entirety.
269	504.04.A	This subsection should read "The unit prices for Micro-Surface , regardless of the type required, include cleaning existing pavement; applying a bond coat; temporary pavement markings; stationing; corrective action; and traffic control to complete corrective action."
299	601.04	In table 601-2 delete the row for Grade P-NC concrete in its entirety.
300	601.04	In table 601-2, the first sentence of footnote b. should read: "Use coarse aggregate 6A, 6AA or 6AAA for Grades P1, P2 and M."
		In table 601-2, footnote c. should read: "The mix design basis for bulk volume (dry, loose) of course aggregate per unit volume of concrete is 72% for Grade P1; 74% for Grade P2."
308	602.03.F	Note c. in Table 602-1 should read "Refer to Section D6 of the Materials Quality Assurance Procedures Manual for inspection procedure."
320	602.04.C.3	The last paragraph in this subsection should read "If the Engineer approves a substitution of a higher concrete grade for a lesser grade (e.g., P1 for P2), the Department will pay for the higher grade of concrete using the original bid and pay items of the lesser grade."
327	603.02	Change the second material in the list to read: "Concrete, Grade P-NC603"
		Change the third material in the list to read: "Base Course Aggregate, 4G, 21AA, 22A902"
334	603.03.B.10	Change the last sentence of the second paragraph to read "Apply the required curing compound in two coats, at a rate of at least 1 gallon per 25 square yards for each coat."
342	603.04.G.3	Change "D1" to "W" in two instances in this subsection.
351	701.04	Replace Tables 701-1A and 701-1B with the Table 701-1 below.
362*	704.03.C	Change the last sentence in the first paragraph of this subsection to read: "The Engineer will consider approval after receiving applicable MDEGLE permits for the alternate method."

		7 of 30 03-04-19
Page 372	Subsection 705.03.C.1	Errata Add the following sentence after the first paragraph of this subsection: "Do not drive piles within a radius of 25 feet of newly placed concrete until the concrete attains at least 75 percent of its specified minimum strength."
374	705.03.C.2.c	Change the last sentence of the second paragraph to read "Drive test piles to the minimum pile length or practical refusal, whichever is greater".
379	705.04	Change the fifth item down the list to read: "Pile, Galv (Structure No.)"
380	705.04	Change the last item in the list to read: "Pile Driving Equipment, Furn (Structure No.)"
383	706.02	The fourth paragraph following the list of materials should read "Provide AASHTO M 270, Grade 36 steel, meeting the requirements of ASTM A 786, galvanized in accordance with section 707, for expansion joint cover plates. Provide plates at least 3/8 inch thick. Use plates with a slip resistance equal to or greater than those meeting the requirements of ASTM A 786 and must be approved by the Engineer. Provide ASTM F 593 (Type 304) stainless steel, 3/4-inch or 1/2-inch diameter, flathead countersunk screws with 3/4-inch or 1/2-inch diameter inserts for use in expansion joint cover plates."
389	706.03.D.4.b	Change the first sentence of the fourth paragraph to read "Design forms, form supports, and attachments to carry dead loads, and resultant horizontal loads due to forming of cantilever overhangs."
390	706.03.E.4	Change the forth sentence of the first paragraph to read: "Use wire ties to secure all bar intersections for the top mat. Use wire ties to secure all bar intersections for other mats where the product of the length and width of bar intersection spacing exceeds 120 square inches."
391	706.03.E.8	Change the first sentence of the second paragraph of this subsection to read: "Patch sawed or sheared ends and visible defects in accordance with ASTM A 775."
392	706.03.E.8	Change the last sentence of the third paragraph of this subsection to read: "Coat mechanical splices after splice installation in accordance with ASTM A 775 for patching damaged epoxy coating."
394	706.03.H.1	Delete the last paragraph on page 394 and replace it with the following: "Do not cast sidewalk, curb, or barrier pours until the deck concrete attains at least the minimum specified 7-day flexural or compressive strength, and after completion of the 7-day continuous wet cure. The

		8 of 30 03-04-19
Page	Subsection	Errata
J		forming of succeeding portions may occur, provided the wet cure is maintained."
406*	706.03.N.1.b	Add the following to the end of the last paragraph of the subsection: "Do not discontinue wet cure nor cast succeeding portions onto the bridge deck prior to completion of the 7-day two-phase continuous wet cure. Ensure excess or ponding cure water is removed prior to casting of succeeding structure portions."
416	707.03.C.1	Change the title of the subsection from "Shop Plans to read "Shop Drawings".
		Change the second sentence of this subsection to read: "Do not use design drawings in lieu of shop drawings."
426	707.03.C.17	Change the second sentence in the first paragraph of this subsection to
		read: "Tap oversized galvanized nuts in accordance with ASTM A 563 or AASHTO M 292 and meet Supplementary Requirement S1 of ASTM A 563 or AASHTO M 292."
430	707.03.D.7.b	Delete the first sentence of the last paragraph of this subsection.
430*	707.03.D.7.b	Change the title of the Table 707-4 to read: "Minimum Bolt Tension for ASTM F 3125 Grade A 325"
430	707.03.D.7.b	Change "104,000" to "103,000" in the last row under the column titled Minimum Bolt Tension.
431	707.03.D.7.c	Add the following sentence to the end of the first paragraph of this subsection: "If using impact wrenches, provide wrenches sufficient to tighten each bolt in approximately 10 seconds."
431*	707.03.D.7.c	Change the first sentence of the second paragraph to read: "Do not reuse ASTM F 3125 Grade A 325 bolts and nuts"
434	707.04.A	Change the first sentence of the first paragraph of this subsection to read: "The Engineer will measure structural steel by the calculated weight of metal in the finished structure, excluding filler metal in welding, as shown on the shop drawings or working drawings."
438	708.03.A.2	Change the title of the subsection from "Shop Plans to read "Shop Drawings".
		Change the first sentence to read: "Submit shop drawings in accordance with subsection 104.02."
		Change the fourth sentence to read:

		9 of 30 03-04-19
Page	Subsection	Errata "Do not start production until the Engineer approves the shop drawings."
441*	708.03.A.11	Change the last sentence of the first paragraph to read "Cure concrete at temperatures from 70 °F to 150 °F until concrete attains the release strength shown on the shop drawings".
441	708.03.A.11	Change the fourth sentence of the fourth paragraph to read "Do not exceed a maximum concrete temperature of 150 °F during the curing cycle."
458	711.03.A	Change the first sentence in the first paragraph to read: "Shop drawings for structural steel and pipe railings are not required."
460	711.04.A	Change the second sentence of the first paragraph to read: "The unit price for Bridge Barrier Railing includes the cost of placing steel reinforcement, providing and placing concrete, constructing joints, and forming, finishing, curing and protecting the concrete."
461	711.04.F	The title of this subsection should read "Reflective Marker, Permanent Barrier."
467	712.03.C	Add the following to the end of the third paragraph of the subsection: "Notify the Engineer of any saw cuts in the top flange. Saw cuts equal to or less than 1/32 inch deep in steel beams must be repaired by grinding, to a surface roughness no greater than 125 micro-inches per inch rms, and tapering to the original surface using a 1:10 slope. Saw cuts in excess of 1/32 inch deep in steel beams require a welded repair to be submitted to the Engineer for approval. Weld in accordance with subsection 707.03.D.8 and provide adequate notice to allow the Engineer to witness the repair work. Inspect and test all saw cut repairs (including grinding repairs) using ultrasonic testing in accordance with 707.03.D.8.c at no additional cost to the Department."
471	712.03.J	Add the following to the end of the second paragraph of the subsection: "Select adhesive anchor systems from the Qualified Products List."
471	712.03.J.1	Delete the first paragraph in this subsection and replace it with the following: "Propose complete details of drilling, cleaning, and bonding systems for anchoring reinforcement and submit for the Engineer's approval before use. The minimum embedment depth must be nine times the anchor diameter for threaded rod or bolt and twelve times the anchor diameter for reinforcing bar. Propose a drilling method that does not cut or damage existing reinforcing steel. Prepare at least three proof tests per anchor diameter and type in the same orientation in which they will be installed on the existing structure, on a separate concrete block, in the presence of the Engineer. The Engineer will proof test the proposed systems. The Engineer will base approval of the anchoring system on the following criteria:"
471	712.03.J.2	Change the third sentence of the first paragraph to read:

_		12SS-001A-19 10 of 30 03-04-19
Page	Subsection	Errata "Use a tension testing device for unconfined testing, in accordance with ASTM E 488."
473	712.03.L.2	Change the first sentence in the second paragraph of this subsection to read: "If using epoxy coated steel reinforcement, epoxy coat mechanical reinforcement splices in accordance with ASTM A 775."
473	712.03.L.3	Delete the existing first sentence in the first paragraph.
473	712.03.L.3	Change the third sentence of the first paragraph to read "Provide two test splices on the largest bar size."
473*	712.03.L.3	Change the sentence beginning "Demonstrate to the to read: "Demonstrate to the Engineer that splices have a tensile strength of 125 percent of the bar yield strength and high strength splices have a tensile strength of 150 percent of the bar yield strength."
488	713.02	Add the following as subsection 713.02.C: "C. Structural Steel for Retrofitting and Welded Repairs. Structural steel material used for retrofitting and welded repairs of primary members as defined in subsection 707.01.B must meet longitudinal Charpy V-Notch impact test requirements."
501	715.02	Add the following material reference above the two existing items: "Sealant for Perimeter of Beam Plates713"
508	715.03.D.1	Add the following sentence after the second paragraph of the subsection: "Apply sealant for perimeter of beam plates in accordance with subsection 713.03.F."
515	716.03.A	Delete the second paragraph of this subsection in its entirety.
		Change the last sentence of the last paragraph of this subsection to read: "Provide a primer dry film thickness for the top flange between 4 mils and 10 mils."
519	716.04	Change the second sentence of the first paragraph of this subsection to read: "The unit price for Field Repair of Damaged Coating (Structure No.) includes the costs of making field repairs to the shop applied coating system; prime coat surfaces and exposed surfaces of bolts, nuts, and washers; and repairing stenciling."
521	717.04.B	This subsection should read "The unit price for Drain Casting Assembly includes the cost of providing and installing the downspout and, if necessary, the lower bracket to the drain casting."

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Page 522	Subsection 718.02	Errata Change the section number "906" in the third material in the list to read "919."
533	718.04	Delete the following pay item from the list: Temp CasingFoot
533	718.04.B.2	Delete this subsection in its entirety.
533	718.04.B.3	Renumber this subsection as follows: "2. Permanent Casing."
540	802.04	Change "Non reinf" in the last pay item of the list with "Nonreinf".
545*	803.04.E	Change the second sentence of the second paragraph to read: "The unit price for Railing for Steps includes the cost of providing, fabricating, installing, and grouting the railing."
560	807.04	Delete the following pay item from the list: Guardrail Buffered EndEach
560	807.04.B	Change the fifth paragraph of this subsection to read: "The Engineer will measure Guardrail Salv and Guardrail, Mult, Salv along the face of the rail (one face for multiple beams), including terminals and end shoes."
567	808.04.C	Change the first paragraph of this subsection to read: "The Department will not pay separately for protective fence required in accordance with subsection 104.07."
569	809.04.A	Change the first sentence to read: "The unit price for Field Office, CI includes the cost of setup, providing access, grading, maintaining, plowing snow, and utility hookup charges."
570	809.04.B	Delete the existing second and third sentences in the first paragraph and replace them with the following: "The unit price for Field Office , Utility Fees includes the cost of monthly usage fees for electricity, gas, telephone service and charges, fuel for the stove, monthly water and sanitary service."
570	809.04.B	Change the existing fourth sentence in the first paragraph to read: "The Department will reimburse the Contractor for monthly usage fees for electricity, gas, telephone, water and sanitary charges incurred by the Department."
575	810.03.K	Change the subsection to read "K. Drilled Piles for Cantilever and Truss Foundations. Construct drilled piles for cantilever and truss foundations in accordance with section 718."

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Page 578	Subsection 810.03.N.2	Errata Add the following sentence after the first sentence of the paragraph on this page: "Mark each nut and bolt to reference the required rotation."	ie second
584	810.04	Delete the last pay item in the list: Truss Fdn Anchor Bolts, Replace	Each
585	810.04.B.1	Change the second paragraph to read: "The unit prices for Fdn, Truss Sign Structure Type, Cased and Fdn, Cantilever Sign Structure Type, Cased include the cost of concrete, slurry, steel reinf permanent casings, anchor bolts, excavation, and disposal of material."	inch Dia, forcement,
585	810.04.B.2	Change the second sentence of the first paragraph to read: "The unit prices for Fdn, Truss Sign Structure Type, Uncased and Fdn, Cantilever Sign Structure Type, Uncased include the cost of concrete, slurry, steel reinf temporary casings, anchor bolts, excavation, and disposal of material."	inch Dia, orcement,
596	811.03.G	Delete this subsection in its entirety.	
597*	811.03.H	Rename this subsection as follows: "G. Raised Pavement Marker (RPM) Removal."	
597*	811.04	Change "Crosshatching" in the last pay item of the list on th "Cross Hatching".	is page to
598*	811.04	Delete the following pay items from the list: Pavt Mrkg, (material), 4 inch, SRSM, (color) Pavt Mrkg, (material), 4 inch, SRSM, 2 nd Application, (color)	Foot Foot
		Add the following pay items to the list: "Pavt Mrkg, Polyurea, (legend)	
		Change the sixth item down the list to read: "Pavt Mrkg, Polyurea, inch, Cross Hatching, (color)"	
		Change the eleventh item down the list to read: "Rem Curing Compound, for Longit Mrkg, inch	Foot"
599	811.04.B	Delete this subsection in its entirety.	
599	811.04	Rename the following subsections as follows: "B. Call Back. C. Pavement Marking Removal. D. Material Deficiency."	

_		13 of 30 03-04-19
Page 602	Subsection 812.03.D	Errata Change the first sentence to read "Provide and maintain traffic control devices meeting the requirements in the ATSSA Quality Guidelines for Work Zone Traffic Control Devices and Features."
603	812.03.D.1	The last sentence on this page should read "Lay the sign behind the guardrail, with the uprights pointing downstream from the traffic, and place the support stands and ballasts close to the guardrail."
604	812.03.D.2	The first sentence of the fourth paragraph should read "Do not use burlap or similar material to cover Department or Local Government owned signs."
604	812.03.D.5	The fifth sentence of the first paragraph should read "Do not mix drums and cones within a traffic channeling sequence."
605	812.03.D.6.b	Change the first sentence of the first paragraph to read: "The Department will allow the nighttime use of 42-inch channelizing devices, in the tangent area only, on CPM and pavement marking of any duration where the use of plastic drums restricts proposed lane widths to less than 11 feet, including shy distance."
605	812.03.D.7	Add the following sentence after the first sentence of the first paragraph: "Place a shoulder closure taper in advance of the lighted arrows placed on the shoulders."
607	812.03.D.9	Delete the second paragraph of this subsection and replace with the following: "Link sections together to fully engage the connection between sections. Maintain the barrier with end-attachments engaged and within 2 inches of the alignment shown on the plans."
608	812.03.D.10.b	Delete the second sentence of the second paragraph of this subsection beginning with "Install sand module attenuators"
608	812.03.D.10.b	Add the following sentence after the second paragraph of this subsection: "Install impact attenuation devices as shown on the plans, as directed by the Engineer, or both."
609	812.03.D.10.e	Delete the second paragraph of this subsection.
612	812.03.D.13	Delete the third paragraph of this subsection and replace it with the following: "Perform work on signals in accordance with the contract and to the requirements of NEMA TS-5 standard for those items not identified in the contract."
613*	812.03.D.14.a.iii	Change the sentence in this subsection to read "Place a terminal end shoe, in accordance with Standard Plan R-66-Series, and of appropriate type based on existing guardrail, on both blunt guardrail ends."

		14 of 30 03-04-19
Page 615	Subsection 812.03.F	Errata The second sentence of the second paragraph of this subsection should read: "The Contractor may use a Type R temporary pavement marking cover, per subsection 812.03.D.12 when authorized by the Engineer."
616	812.03.F.2	The last sentence of the first paragraph should read: "If the removal equipment cannot collect all removal debris, operate a self-propelled sweeper capable of continuously vacuuming up the removal debris immediately behind the removal equipment."
617	812.03.G.3	The first sentence of the second paragraph should read: "Sweep the shoulder and remove debris prior to placing traffic on the shoulder and throughout the time the shoulder is used to maintain traffic."
617	812.03.G.4.a	Delete "48 inch by 48 inch" from the first sentence of this subsection.
618*	812.03.G.7	The first sentence of the first paragraph should read: "Clean barrier reflectors, plastic drums, 42 inch channelizing devices, tubular markers, signs, barricades, and attached lights in operation on the project to ensure they meet required luminosity."
619	812.03.G.8	The second sentence of the third paragraph from the end of the subsection should read: "Illuminate traffic regulator stations at night per subsection 812.03.H."
621	812.03.I.6	Delete "48 inch by 48 inch" from the second sentence of this subsection.
622*	812.03.J	The second paragraph should read "Apply one 2-inch wide horizontal stripe of red and white conspicuity tape along at least 50 percent of each side of, and across the full width of the rear of the vehicle or equipment."
622	812.04	Change the second item down the list to read: "Traf Regulator Control"
		Change the sixth item down the list to read: "Sign Cover, Type I"
626	812.04.I	Change the reference "812.04.E" in the first sentence to "812.04.D".
628	812.04.M.4	Add the following as the first sentence of this subsection: "The Engineer will not measure a temporary barrier ending move as Conc Barrier Ending, Temp, Relocated if it involves work defined in subsection 812.04.M.3."
629	812.04.N.1	Change the reference "811.04.D" in the second paragraph of this subsection to read "811.04.C".
630	812.04.S	Change the first sentence to read: "The Department will not make additional payments for traffic regulating, signing, arrow boards, and lighting systems for traffic regulator stations operated at night due to a temporary PTS system failure."

Page	Subsection	Errata
634	813.03.C.3	Change the reference "903.07.A" in the paragraph of this subsection to read "907.07.B".
638	814.03.D	Change the second sentence to read: "Place the HMA mixture on the prepared base to a thickness of at least 2 inches, and to at least 220 pounds per square yard."
646	815.04	Change the first, third and fourth pay items in the list to read: "Site Preparation, Max (dollar) Lump Sum Watering and Cultivating, First Season, Min (dollar) Lump Sum Watering and Cultivating, Second Season, Min (dollar) Lump Sum"
646	815.04.C.1	Change the following pay item reading: "Watering and Cultivating, First Season, Min. (dollar)" to read "Watering and Cultivating, First Season, Min (dollar)" at two locations throughout the subsection.
646	815.04.C.1.b	Delete this subsection in its entirety.
646	815.04.C.1.c	Rename this subsection to read: "b. Removal and disposal of unacceptable plants."
646	815.04.C.2	Change the following pay item reading: "Watering and Cultivating, Second Season, Min. (dollar)" to read "Watering and Cultivating, Second Season, Min (dollar)" at three locations throughout the subsection.
647	815.04.C.2	Change the last paragraph of this subsection to read: "For each unacceptable plant identified, the Engineer will calculate a 50 percent reduction in the unit price for the relevant (Botanical Name) pay item, and will process a negative assessment for each unacceptable plant for that amount."
650	816.03.B	Delete the first paragraph of this subsection and replace with the following: "Conduct soil tests when called for in the contract or when directed by the Engineer. Provide soils tests results to the Engineer when testing is required. Provide and place fertilizer as indicated below and as indicated in the soils tests, if required."
650	816.03.B.1	Change the sentence to read: "For Class A fertilizer, evenly apply 176 pounds of chemical fertilizer nutrient per acre on a prepared seed bed."
650	816.03.B.2	Change the sentence to read: "For Class B fertilizer, evenly apply 120 pounds of chemical fertilizer nutrient per acre on a prepared seed bed."
650*	816.03.B.3	Change the sentence to read: "For Class C fertilizer, evenly apply 80 pounds of chemical fertilizer nutrient per acre on established turf."

		16 of 30 03-04-19
Page	Subsection	Errata
663*	819.01	Delete the first paragraph in the subsection and replace it with the following:
		"This work consists of providing operating electrical and lighting units; removing, salvaging, or disposing of existing electrical and lighting components; excavating, backfilling, restoring the site in accordance with section 816; and disposing of waste excavated materials. Complete this work in accordance with this section, section 820, and the contract and to the requirements of the NEC, the National Electrical Safety Code, and the MDLARA for those items not identified in the contract."
		Change the third sentence of the second paragraph in this subsection to read: "Contact the MDLARA for electrical service inspection and pay the applicable fees."
671	819.03.F.1	Change the paragraph to read: "Install light standard foundations as shown on the plans and the standard plans, as applicable."
673	819.03.G.4.b	Change the last sentence of the first paragraph to read: "Tighten the anchor bolts to a snug tight condition as described in the third paragraph of subsection 810.03.N.2 ensuring the lock washer is completely compressed."
673	819.03.G.4.b	Delete the first two sentences of the second paragraph and replace with the following: "Tighten bolts connecting the pole to the frangible base to a snug tight condition. Snug tight is the tightness attained by a few impacts of an impact wrench, or the full effort of a person using an ordinary spud wrench. The lock washers must be fully compressed."
678	819.04	Change the ninth pay item in the list to read: "DB Cable, 600V, 1/C# (size)
678*	819.04	Delete the last item in the list on this page reading: "DB Cable, in Conduit, 600 Volt, (number) 1/C# (size) Foot"
679	819.04	Change the first pay item in the list to read: "DB Cable, in Conduit, 600V, 1/C# (size)
679	819.04	Change the sixth pay item in the list to read: "Cable, P.J., 600V, 1, (size)
679	819.04	Change the second pay item from the bottom of the list to read: "Conc Pole, Fit Up, (type) Each"
680	819.04	Change the first paragraph to read: "Unless otherwise required, the unit prices for the pay items listed in this subsection include the cost of excavation, granular material, backfill,

_		12SS-001A-19 17 of 30 03-04-19
Page	Subsection	Errata and disposal of waste excavated material. If the contract does not include pay items for restoring the site in kind in accordance with section 816, the Department will consider the cost of restoration included in the pay items listed in this subsection."
680	819.04.A	Add the following paragraph after the first paragraph of the subsection. "The unit prices for Conduit, Rem include the cost of removing the type, number, and size of conduit shown on the plans."
		Change the third paragraph of the subsection to read: "The unit prices for Conduit, (type), inch and Conduit, DB, (number), inch include the cost of installing the type, number, and size of conduit shown on the plans, and installing marking tape."
681	819.04.B	Change the last paragraph of the subsection to read: "The unit price for DB Cable , in Conduit , Rem includes the cost of removing all cables from the existing conduit measured per lineal foot of conduit."
681	819.04.C	Change the first paragraph of the subsection to read: "The unit prices for Cable , Rem and Cable , (type) , Rem include the cost of dead ending, circuit cutting, installing guying, work required to leave circuits operable, and disposing of the removed cables, wire, hardware, and other appurtenances."
681	819.04.D	Change the first paragraph of the subsection to read: "The unit price for Cable, Pole, (type), Disman includes the cost of dismantling and off-site disposal of the following:"
685	820.01.D	Change the sentence to read: "Excavate, backfill, restore the site in kind in accordance with section 816, and dispose of excess or unsuitable material;"
688	820.03.C	Change the seventh paragraph of this subsection to read: "Tighten top anchor bolt nuts, snug, in accordance with the first four paragraphs of subsection 810.03.N.2, except beeswax will not be required."
696	820.04	Add the following pay items to the list: "Pedestal, Pushbutton, Alum
697	820.04.A.2	Change the sentence to read: "If the contract does not include pay items for restoring the site in kind in accordance with section 816, the Department will consider the cost of restoration included in the pay items listed in this subsection."
698	820.04.B	Delete the second paragraph of this subsection found on this page.
698	820.04.C	Change "Fdns" to read "Fdn" in four instances in this subsection.

"Intermediate aggregate includes all aggregate particles passing the

3/4-inch sieve through those retained on the No. 4 sieve."

Page	Subsection	Errata
742	902.03.C.2.b.iii	Change the sentence to read as follows:
		"Maximum Loss by Washing per MTM 108 of 3.0 percent".
744	902.07	Delete the fourth paragraph of the subsection and replace it with the
		following: "The Engineer will only allow the use of granular material produced from crushed portland cement concrete for embankment and as trench backfill for non-metallic culvert and sewer pipes without associated underdrains. However, granular material produced from crushed portland cement concrete is not permitted as swamp backfill, nor within the top 3 feet below subgrade regardless of the application.
746*	902.11	Change the Item of Work by Section Number column in Table 902-1 for the 6AA row to read: "406, 601, 602, 706, 708, 806".
		Change the Item of Work by Section Number column in Table 902-1 for the 6A row to read: "206, 401, 402, 406, 601, 602, 603, 706, 806".
		Change the Item of Work by Section Number column in Table 902-1 for the 34R row to read: "401, 404, 406".
751*	902.11	Replace Table 902-6 with the Table 902-6 below.
751	Table 902-7	Under the Material column in the fourth row change the "FA2" to read "2FA".
751	Table 902-7	Under the Material column in the fifth row change the "FA3" to read "3FA".
752	Table 902-8	Under the Material column in the fourth row change the "FA2" to read "2FA".
752	Table 902-8	Under the Material column in the fifth row change the "FA3" to read "3FA".
761	Table 904-2	Delete the footnote f and any other reference to footnote f from the table.
767	905.03	Change the first sentence of the first paragraph to read: "Deformed bars, must meet the requirements of ASTM A 706, ASTM A 615, or ASTM A 996 (Type R or Type A only) for Grade 60 steel bars, unless otherwise required".
767*	905.03	Change the first sentence of the second paragraph to read: "Unless otherwise specified, spiral reinforcement must meet the requirements of plain or deformed Grade 40 steel bars of ASTM A 615, ASTM A 996 (Type A), or the requirements of cold-drawn wire of ASTM A 1064".
767	905.03	Change the first sentence of the third paragraph to read: "Bar reinforcement for prestressed concrete beams must meet the requirements of ASTM A 996 (Type R) for Grade 60 steel bars, except

Dogo	Subsection	20 of 30 03-04-19 Errata
Page	Subsection	the Engineer will allow bar reinforcement that meets the requirements of ASTM A 615 or ASTM A 996 (Type A) for Grade 40 steel bars for stirrups in prestressed concrete beams".
768	905.03.C	Change the first sentence in the subsection to read: "Epoxy coated steel reinforcement, if required, must be coated in accordance with ASTM A 775, with the following exceptions and additions."
768	905.03.C.3	Change the first sentence of this subsection to read: "Include written certification that the coated reinforcing bars were cleaned, coated, and tested in accordance with ASTM A 775 with the coating applicator."
768	905.05	Change the first sentence of the first paragraph to read: "Deformed steel bars must meet the requirements of ASTM A 706 or the requirements for Grade 40, Grade 50, or Grade 60 of ASTM A 615 or ASTM A 996 (Type R or Type A only)".
768	905.06	Delete this subsection in its entirety and replace it with the following: "Deformed wire fabric for prestressed concrete and fabric for concrete pavement reinforcement must meet the requirements of ASTM A 1064 and fabricated as required."
772*	906.07	Change the first paragraph to read: "High-strength bolt fasteners for structural joints must meet the requirements of ASTM F 3125 Grade A 325 Type 1 bolts. High-strength nuts for structural joints must meet the requirements of ASTM A 563 Grade DH or AASHTO M 292 Grade 2H. High-strength washers for structural joints must meet the requirements of ASTM F 436 Type 1 for circular, beveled, clipped circular, and clipped beveled washers."
		Change the second sentence of the second paragraph of this subsection to read: "Galvanized nuts must be tapped oversize in accordance with ASTM A 563 and meet Supplementary Requirements S1, Lubricant and Rotational Capacity Test for Coated Nuts and S2, Lubricant Dye."
777*	907.03.D.2.a	Change the first sentence of the second paragraph to read: "Angle sections must be nominal 2½ inch by 2½ inch by ¼ inch."
777*	907.03.D.2.b	Change the first sentence of the first paragraph to read: "Angle section braces must be nominal $1\frac{3}{4}$ inch by $1\frac{3}{4}$ inch by $1\frac{3}{4}$ inch by 2 inch $1\frac{3}{16}$ inch."
782	908.04	Change the first sentence of the first paragraph of this subsection to read: "Steel castings for steel construction must meet the requirements of ASTM A 148 for Grade 60/90 carbon steel castings, as shown on the plans, unless the Engineer approves an alternate in writing."

		12SS-001A-19
Page	Subsection	21 of 30 03-04-19 Errata
784*	908.09.C	Change this subsection to read: "C. Hardware . Railing anchor studs must meet the requirements of ASTM A 449 Type 1. Heavy hex nuts must meet the requirements of ASTM A 563. Bolts, used as rail fasteners, must meet the requirements of ASTM F 3125 Grade A 325, Type 1. Where called for, round head bolts must meet the requirements of ASTM A 449 Type 1. The material for the railing hand hole screws must meet the requirements of ASTM A 276, Type 304. All nuts must meet the requirements of ASTM A 563 Grade DH or AASHTO M 292 Grade 2H. All flat washers must meet the requirements of ASTM F 436. Lock washers must be steel, regular, helical spring washers meeting the requirements of ANSI B18.21.1 - 1972. Bolts, nuts, washers and other hardware must be hot-dip galvanized in accordance with AASHTO M 232. Galvanized nuts must be tapped oversize in accordance with ASTM A 563, and meet Supplementary Requirements S1, Lubricant and Rotational Capacity Test for Coated Nuts, and S2, Lubricant Dye."
784	908.11.A	Change the first sentence of the first paragraph to read: "Steel beam sections, backup elements, terminal end shoes, and special end shoes must meet the requirements of AASHTO M 180, for Class A guardrail."
785*	908.11.B	Change the second paragraph to read: "Bolts, nuts, and round washers for guardrail, other than at bridge barrier railings, must meet the requirements of ASTM A 307 (Grade A), ASTM A 563 (Grade A with Supplementary Requirements S1 of ASTM A 563), and ASTM F 436, respectively."
		Change the third paragraph to read: "Washers, other than round washers, for guardrail must meet the requirements for circular washers in ASTM F 436 except that the dimensions must be as shown on the plans."
		Change the fifth paragraph to read: "Bolts, nuts, and washers for connections at bridge barrier railings must conform to ASTM F 3125 Grade A 325 Type 1 galvanized high-strength structural bolts with suitable nuts and hardened washers."
787	908.14.B	Add the following sentence to the end of the third paragraph of this subsection: "Exposed threaded ends of anchor bolts must be galvanized a minimum of 20 inches."
		Change the sixth paragraph in this subsection to read: "Provide washers meeting the requirements of ASTM F 436 for circular washers."
787	908.14.B	Change the second sentence of the fourth paragraph to read "After coating, the maximum limit of pitch and major diameter for bolts with a

Dage	Cubaaatian	22 of 30 03-04-19
Page	Subsection	Errata diameter no greater than 1 inch may exceed the Class 2A limit by no greater than 0.021 inch, and by no greater than 0.031 inch for bolts greater than 1 inch in diameter".
787*	908.14.C	Change the first paragraph to read "Provide either four or six high strength anchor bolts per the contract plans, meeting the mechanical requirements of ASTM F 1554, for Grade 105, with each standard. Anchor bolts for traffic signal strain poles must meet the requirements of subsection 908.14.B with the following exceptions and additions:"
789	909.03	Change the second sentence of the second paragraph to read: "As an alternative to the AASHTO M 36 requirements for metal pipe, the Contractor may use gasket material meeting the low temperature flexibility and elevated temperature flow test requirements of ASTM C 990, excluding the requirements for softening point, flashpoint and fire point."
793	909.06	Change the first sentence of the second paragraph of this subsection to read: "Provide Corrugated Polyvinyl Chloride Pipe (CPV) and required fittings meeting the requirements of AASHTO M 304."
793*	909.05.D	Change the second sentence of the paragraph to read "Provide a continuous welded joint to create a watertight casing that is capable of withstanding handling and installation stresses. Perform field welding by the SMAW process using E7018 electrodes."
794*	909.08.A	Change the first sentence to read: "Provide bridge deck downspouts of PE pipe meeting the requirements of ASTM F 714, PE 4710, DR 26."
804	Table 909-9	In the note area at the bottom of the table change the designation of the second note from "c." to "b.".
811	910.04	Add the following sentence to the end of this subsection: "Fabricate silt fence according to subsection 916.02."
814	Table 911-1	In the 4 th row of the 5 rows in the table change the Property listed as "Total Organic Content (TOC)" to read "Total Organic Carbon (TOC)".
829*	912.08.K	Replace Table 912-10 with the Table 912-10 below.
833*	913.03.B	Change the first sentence of the first paragraph to read: "Clay brick, to construct manholes, catch basins, and similar structures, must meet the requirements of ASTM C 32, for Grade MS."
837*	914.04	Add the following as subsection 914.04.C: "C. Lubricant-Adhesive for Neoprene Joint Seals . The lubricant-adhesive must be a single-component moisture-curing polyurethane and aromatic hydrocarbon solvent mixture meeting ASTM D 2835, Type

			1A-19 ·04-19
Page	Page Subsection	Errata I. Ship in containers plainly marked with the lot or batch number material and date of manufacture. Store at temperatures between and 80°F. Do not exceed 12 months shelf-life prior to use."	
840	914.08	Change the first sentence of the second paragraph to read: "Strain bars for end-of-pour joints must consist of bars of the diameter length shown on the plans meeting the requirements of ASTM A STM A 706, or ASTM A 996 (Type R or Type A only)".	er and
840*	914.09.A	Change the first sentence of the first paragraph to read: "Straight ti for longitudinal pavement joints must consist of bars of the diamet length shown on the plans meeting the requirements of ASTM A ASTM A 706, or ASTM A 996 (Type R or Type A only)".	er and
840	914.09.B	Change the first sentence of the first paragraph to read: "Bent ti for bulkhead joints must consist of bars of the diameter and shown on the plans."	
841*	914.13	In the first sentence of this subsection change "ASTM D 1248, fo III, Class B" to read "ASTM D 4976, Group 2, Class 4, Grade 4".	r Type
844	916.01.A	Change the first sentence to read: "Cobblestone must consrounded or semi-rounded rock fragments with an average dime from 3 inches to 10 inches."	
845	916.01.D.1	Change the second sentence to read: "Checkdams for ditch grapercent or greater must be constructed using cobblestone or be concrete ranging from 3 inches to 10 inches in size."	
851*	917.10.B.1	Delete the paragraph and replace it with the following: "1. Class A. Provide and apply Class A chemical nutrient feeither according to MSU Soil Testing Lab Recommendation Phosphorus Applications to Turfgrass, except the maximum application rate of nutrient will be 48 pounds per acre, when so are required or as indicated in subsections 917.10.B.1.a. 917.10.B.1.b."	ns for single il tests
851	917.10.B.1	Add the MSU Soil Testing Lab Recommendations for Phosp Applications to Turfgrass, found below, after the first paragraph subsection.	
853	917.15.B.1	Change the second sentence of the subsection to read: "The net must meet the requirements of subsection 917.15.D a capable of reinforcing the blanket to prevent damage during shi handling, and installation."	
857	918.01	Add the following two paragraphs following the first paragraph subsection: "Wall thickness and outside diameter dimensions must conformation ASTM D 1785 for smooth-wall schedule 40 and 80 PVC of	orm to

		24 of 30 03-04-19
Page	Subsection	material. The Department will allow no more than 3 percent deviation from the minimum wall thickness specified.
		Wall thickness range must be within 12 percent in accordance with ASTM D 3035 for smooth-wall coilable schedule 40 and 80 PE conduit."
858	918.01.E	Delete the first three sentences of the second paragraph shown on page 858.
863	918.06.F.1	Delete the third paragraph in this subsection in its entirety and replace it with the following: "Provide smooth or deformed welded wire fabric in accordance with ASTM A 1064."
864	918.07.C	Change the first sentence of the first paragraph to read: "Provide anchor bolts, nuts, and washers meeting the requirements of subsection 908.14.A and subsection 908.14.B."
864	918.07.C	Delete the second sentence of the second paragraph.
864	918.07.C	Change the third sentence to read: "Provide anchor bolts threaded 4 inches beyond the anchor bolt projection shown on the plans."
867	918.08.C	Change the last sentence of the first paragraph on this page to read: "Galvanize bolts, nuts, washers, and lock washers as specified in subsection 908.14.B."
867	918.08.C	Change the last sentence of the subsection to read: "Provide each frangible base with manufacturer access covers as shown on the plans."
867*	918.08.D	Delete this subsection in its entirety and replace with the following: "Provide galvanized anchor bolts, studs, nuts, couplings, and washers in accordance with subsection 908.14."
879	918.10.J	Change the third sentence of the second paragraph of this subsection to read:
		"Provide anchor bolts and associated nuts, washers, and hardware meeting the requirements of subsection 908.14."
887	919.06	Change the second paragraph to read: "Shims must be fabricated from brass shim stock or brass strip meeting the requirements of ASTM B 36, for copper alloy UNS No. C26000, half-hard rolled temper, or fabricated from galvanized sheeting meeting the requirements of ASTM A 653, for Coating Designation G 90."
887	919.07.C	Change the sentence to read:

Add the following pay items to the list:

					F	Table 701-1							
					Concrete	Concrete Structure Mixtures	ures						
					Slu (inc	Slump (inches)			Mini	Minimum Strength of Concrete (f)	th of Co	ncrete	(J
		Content	ent tent		H	C			Flexural	iral		Compressive	ssive
		per cyd (b,c)	(p,c)	4	I ype MR	Iype MK, F, or G Admixtures (g)	xtures (g)		(ISd)	_	ľ	(ISd)	_
	Section									28 Day			28 Day
Concrete	Number			Type A, D		After	After			(Class			(Class
Grade	Reference			o	Before	Admixture	Admixture	7	4	Design	7	4	Design
(e,h)	(i)	qı	sack	Admixture	Admixture	(Type MR)	(Type F or G)	Day	Day	Strength)	Day	Day	Strength)
D (a)	706, 711, 712	0.7 (b) 839	7.0	0 - 3	0 - 3	9-0	2-0	625	200	725	3,200	4,000	4,500
S1	705	611	6.5	3 - 5	0 - 3	3-6	3 - 7	009	650	700	3,000 3,500	3,500	4,000
F	705, 706	611	6.5	3 - 7	0 - 4	3 - 7	3-8	550	009	650	2,600 3,000	3,000	3,500
	401, 705, 706,												
S2 (a)	712, 713, 801,	264	0.9	0 - 3	0 - 3	9-0	0-7	220	009	650	2,600 3,000	3,000	3,500
	802, 803, 810	526 (d)											
ວວ	402, 403, 803,	517	5.2	6	٥	9	٧	200	בצט	600	2 200	2 800	3 000
3	804, 806	489 (d)		0	0	0	` `	000	000	000	2,200 2,000	2,000	3,000
00000	0+020022 \ 00000 \ 0000 \ 00000 \ 00000 \ 00000 \ 00000 \ 000000	000	V		17 A fam. 2				II are in a	in the second			

Do not place concrete mixtures containing supplemental cementitious materials unless the local average minimum temperature for the next 10 consecutive days Cold weather protection may be required, as described in the quality control plan. The restriction does not apply to Grade S1 concrete in foundation piling below ground level or Grade T Unless otherwise required, use Coarse Aggregate 6AA or 17A for exposed structural concrete in bridges, retaining walls, and pump stations. is forecast to be above 40 °F. Adjustments to the time required for opening to construction or vehicular traffic may be necessary. concrete in tremie construction ъ.

Type III cement is not permitted

retardation required. When the maximum air temperature is not forecast to exceed 60 °F for the day, the Contractor may use a water-reducing admixture or a water-reducing retarding admixture. Ensure Grade D concrete in concrete diaphragms contains a water-reducing admixture, or a water-reducing retarding admixture, provided that the concrete can admixture. For night casting, the Contractor may use a water-reducing admixture in lieu of water-reducing retarding admixture, provided that the concrete can Use admixture quantities specified by the Qualified Products Lists to reduce mixing water. Admixture use is required for Grade D, Grade S2, and Grade S3, concrete with a reduced cement content. Use a water-reducing retarding admixture at the required dosage for Grade D concrete to provide the setting be placed and finished prior to initial set.

The mix design basis for bulk volume (dry, loose) of coarse aggregate per unit volume of concrete is 68% for Grade S1, and 70% for Grade D, Grade S2, The Contractor may use flexural strength to determine form removal. Use compressive strength for acceptance in other situations. Grade T, and Grade S3.

ь Б

MR = Mid-range.

The Engineer will allow the use of an optimized aggregate gradation as specified in section 604 Section Number Reference:

Concrete Sidewalk, Sidewalk Ramps, and Steps Bicycle Paths Permanent Traffic Signs and Supports Concrete Barriers and Glare Screens 803 804 806 810 Concrete Curb, Gutter and Dividers **Bridge Rehabilitation-Concrete** Bridge Rehabilitation-Steel Concrete Driveways **Bridge Railings** 712 713 801 802 Structural Concrete Construction **Drainage Structures** Foundation Piling Storm Sewers Culverts 402 403 401

			Superp	erpave Fir	nal Aggre	Table 902-6 egate Blend I)2-6 ind Phys	Table 902-6 Dave Final Aggregate Blend Physical Requirements	rements				
		Percent (Percent Crushed	Fine Aggregate Angularity Minimum Criteria	regate Ainimum	% Sand Equivalent	quivalent	Los Angeles Abrasion % Loss Maximum	Abrasion	% Soft Particles Maximum Criteria	articles Criteria	% Flat and Elongated Particles Maximum Criteria	and Particles Criteria
Est. Traffic (million ESAL)	Mix Type	Top & Leveling Courses	Base	Top & Leveling Courses	Base Course	Top & Leveling Courses	Base	Top & Leveling Courses	Base Course	Top & Leveling Courses	Base Course	Top & Leveling Courses	Base Course
< 0.3	LVSP	/99				40	40	45	45	10	10	I	
< 0.3	E03	/99	l	1		40	40	45	45	10	10	I	
<u>></u> 0.3 -<1.0	E1	/59		40		40	40	40	45	10	10	I	
≥1.0 - < 3	E3	—/ <u>9</u> 2	/09	40(a)	40(a)	40	40	35	40	2	9	10	10
<u>></u> 3 - <10	E10	85/80	/09	45	40	45	45	35	40	2	9	10	10
<u>></u> 10 - <30	E30	06/56	80/75	45	40	45	45	35	32	3	4.5	10	10
<u>></u> 30 - <100	E50	100/10	06/56	45	45	20	20	35	35	3	4.5	10	10
()	L C				7 0 7 0 1 1 7 0	0 0 0 0 0 0	10.5.12		7 000			17 31	

gradation restricted zone requirement included in contract, do not apply. Otherwise, final gradation blend must be (a) For an E3 mixture type that enters the restricted zone as defined in Table 902-5, the minimum is 43. If these criteria are satisfied, acceptance criteria and associated incentive/disincentive or pay adjustment tied to this outside of the restricted zone.

(b) Soft particles maximum is the sum of the shale, siltstone, ochre, coal, clay-ironstone and particles that are structurally weak or are non-durable in service.

(c) Maximum by weight with a 1 to 5 aspect ratio.

Note: "85/80" denotes that 85 percent of the coarse aggregate has one fractured face and 80 percent has at least two fractured faces.

		ble 912-10 ention Requirem	ents	
Preservative	Min	imum Retention,	(pcf)	AWPA Standard
	Guardrail Posts	Sign Posts	Blocks	
Pentachlorophenol	0.60	0.50	0.40	A6
CCA, ACZA	0.60	0.50	0.40	A11
ACQ (a)	0.60	Not Allowed	0.40	A11
CA-B (a)	0.31	Not Allowed	0.21	A11
CA-A (a)	0.31	Not Allowed	0.15	A11
Other Waterborne preservatives	AWPA Commodity Specification A, Table 3.0, Use Category 4B	Not Allowed	AWPA Commodity Specification A, Table 3.0, Use Category 4A	A11

a. Non-Metallic washers or spacers are required for timber and lumber treated with ACQ or CA placed in direct contact with aluminum. Do not use with sign posts.

30 of 30

MSU Soil Testing Lab Recommendationsfor Phosphorus Applications to Turfgrass 3/8/2012

		Sand based rootzone establishment	Golf greens and tees est. or mature; Kentucky bluegrass or perennial ryegrass athletic fields est. or mature; sand based rootzone mature	Lawns, golf course fairways; establishment or mature	Establishment without soil test
Bray P1, Mehlich 3 Soil Test Value (ppm): pH<7.4	Olsen Soil Test Value (ppm) pH>7.4	Recommendation (lbs. P ₂ O ₅ /1000 ft. ₂)	Recommendation (lbs. P ₂ O ₅ /1000 ft. ₂)	Recommendation (lbs. P ₂ O ₅ /1000 ft. ₂)	Recommendation (lbs. P ₂ O ₅ /1000 ft. ₂)
	0			0.5	
0	_	4.4	3.4	2.5	
2	1.3	4.1	3.1	2.2	
4	2.7	3.9	2.7	1.9	
6	4	3.6	2.4	1.6	
8	5.3	3.4	2.0	1.3	0.5.11
10	6.7	3.1	1.7	1.0	2.5 lbs. year (Maximum single
12	8	2.8	1.4	0.7	application of 1.5
14	9.3	2.6	1.0	0.4	lbs.)
16	10.7	2.3	0.7	0.1	
18	12	2.1	0.3	0.0	109 lbs/acre year
20	13.3	1.8	0.0		(maximum single
22	14.7	1.5			application of 65 lbs/acre)
24	16	1.3			ibs/acre)
26	17.3	1.0			
28	18.7	0.8			
30	20	0.5			
32	21.3	0.2			
34	22.7	0.0			

Web resources: <u>www.turf.msu.edu</u> or <u>www.bephosphorussmart.msu.edu</u>

Pavement Marking Maintenance & A2 Vision Zero Quick Build Project – FY 2023 File No. 2023-022 RFP No. 22-38

		Total				W Liberty Street -			S University	Washington
		- 0.00			Fuller Street -	W Stadium			Avenue – S State	
<u>Item Description</u>	Unit	Quantity	City Wide	Ann Street	Glen Avenue	Boulevard	N Maple Road	Packard Street	Street	Street
_Certified Payroll Compliance and Reporting	FSUM	1.000	1.000							
_Mobilization, Max. \$7,500.00	FSUM	1.000	1.000							
_Pavt Mrkg, Longit, 6 inch or Less Width, Rem	±	2,105.000	1,500.000	25.000				419.000	161.000	
_Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	Ħ	150.000	150.000							
_Pavt Mrkg, Polyurea, 12 inch, Cross Hatching, White	Ħ	150.000	150.000							
_Pavt Mrkg, Polyurea, 12 inch, Cross Hatching, Yellow	Ħ	150.000	150.000							
_Pavt Mrkg, Polyurea, 12 inch, Crosswalk	ŭ	1,245.000	750.000						495.000	
_Pavt Mrkg, Polyurea, 24 inch, Crosswalk	ŭ	20.000	50.000							
_Pavt Mrkg, Polyurea, 24 inch, Stop Bar	ŭ	425.000	300.000			15.000		110.000		
_Pavt Mrkg, Polyurea, 4 inch, White	ŧ	12,500.000	12,500.000							
_Pavf Mrkg, Polyurea, 4 inch, Yellow	ŧ	41,508.000	40,000.000		121.000		758.000	332.000	115.000	182.000
avt Mrkg, Polyurea, 6 inch, Crosswalk	ŭ	150.000	150.000							
avt Mrkg, Polyurea, 6 inch, White	Ħ	33,123.000	12,500.000	1,888.000	515.000	1,492.000	4,191.000	7,901.000	1,144.000	3,492.000
avt Mrkg, Sprayable Thermopl, 4 inch, White	ŧ	17,500.000	17,500.000							
avt Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ħ	87,500.000	87,500.000							
avt Mrkg, Sprayable Thermopl, 6 inch, White	ŭ	35,000.000	35,000.000							
avt Mrkg, Thermopl, 12 inch, Cross Hatching, White	Ħ	150.000	150.000							
avt Mrkg, Thermopl, 12 inch, Cross Hatching, Yellow	Ħ	250.000	250.000							
avt Mrkg, Thermopl, 12 inch, Crosswalk	ŭ	17,500.000	17,500.000							
avt Mrkg, Thermopl, 24 inch, Crosswalk	±	4,000.000	4,000.000							
avt Mrkg, Thermopl, 24 inch, Stop Bar	ŭ	5,000.000	5,000.000							
avt Mrkg, Thermopl, 6 inch, Crosswalk	Œ	12,500.000	12,500.000							
avt Mrkg, Thermopl, For On-Street Parking, 4 inch, White	Œ	150.000	150.000							
scessing Pavement Markings, Longit	ŧ	8,500.000	8,500.000							
avt Mrkg, Polymer Cement Surface, Bike Lane Green	St	15,300.000	5,000.000	509.000	436.000	963.000	4,234.000	2,854.000		1,304.000
avt Mrkg, Polymer Cement Surface, Tan	St	10,574.000		1,890.000	413.000				2,392.000	5,879.000
scessing Pavement Markings, Transv	St	1,500.000	1,500.000							
əm Spec Mrkg	₩	7,744.000	550.000	80.000				220.000	4,460.000	2,434.000
avt Mrkg, Ovly Cold Plastic, Bike, Small Sym	Ea	10.000	10.000							
avt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike	Ea	10.000	10.000							
avt Mrkg, Ovly Cold Plastic, Sharrow Symbol	Ea	10.000	10.000							
avt Mrkg, Ovly Cold Plastic, Speed Hump Chevron, White	Ea	10.000	10.000							
avt Mrkg, Polyurea, Bike, Small Sym	Ба	40.000				00009	8.000	24.000		2.000
avt Mrkg, Polyurea, Direction Arrow Sym, Bike	Ea	40.000				00009	8.000	24.000		2.000
avt Mrkg. Polyurea, Lt Turn Arrow Sym	Ea	10.000	10.000							
ٽي مٽي مٽي مٽي مٽي مٽي مٽي مٽي مٽي مٽي م	8117001 Paut Mrkg, Polyurea, 6 inch, Crosswalk 8117001 Paut Mrkg, Polyurea, 6 inch, White 8117001 Paut Mrkg, Polyurea, 6 inch, White 8117001 Paut Mrkg, Sprayable Thermopl, 4 inch, White 8117001 Paut Mrkg, Sprayable Thermopl, 1 inch, White 8117001 Paut Mrkg, Thermopl, 12 inch, Cross Hatching, White 8117001 Paut Mrkg, Thermopl, 12 inch, Crosswalk 8117001 Paut Mrkg, Thermopl, 12 inch, Crosswalk 8117001 Paut Mrkg, Thermopl, 24 inch, Crosswalk 8117001 Paut Mrkg, Thermopl, 24 inch, Crosswalk 8117001 Paut Mrkg, Thermopl, 24 inch, Crosswalk 8117001 Paut Mrkg, Thermopl, 6 inch, Crosswalk 8117001 Paut Mrkg, Chymer Cement Surface, Bike Lane Green 8117001 Paut Mrkg, Polymer Cement Surface, Bike Lane Green 8117010 Paut Mrkg, Polymer Cement Surface, Bike Small Sym 8117050 Paut Mrkg, Ovly Cold Plastic, Sharrow Symbol 8117050 Paut Mrkg, Ovly Cold Plastic, Sharrow Symbol 8117050 Paut Mrkg, Polyurea, Bike, Small Sym 8117050 Paut Mrkg, Polyurea, Bike, Small Sym 8117050 Paut Mrkg, Polyurea, Direction Arrow Sym, Bike 8117050 Paut Mrkg, Polyurea, Li Turn Arrow Sym	White rellow White ching, White ching, Yellow fing, 4 inch, White for an Green n rrow Sym, Bike ymbol np Chevron, White m, Bike	White Ft 33 White Ft 33 White Ft 87 Ching, White Ft 77 Ching, White Ft 12 Ang, 4 inch, White Ft 12 Ang, 4 inch, White Ft 12 Ang, 4 inch, White Ea Sit 10 Isym Ea Sit 10 Isym Ea Ea mp Chevron, White Ea Ea m, Bike Ea Ea	White Ft 150,000 Ft 33,123,000 Ft 33,123,000 White Ft 87,500,000 Ching, White Ft 7,500,000 Ching, White Ft 7,500,000 Ching, White Ft 150,000 Ching, White Fa 10,000 Ching, Whi	He with the high state of the	Athlite Fig. 150,000 150,000 11885,000 11885,000 11885,000 11885,000 11885,000 11885,000 11885,000 11885,000 11885,000 11885,000 11885,000 11885,000 11885,000 1189,0	white Fig. 33,123.000 15,000.000 1,488.000 515.000 1,446	White Harmony Wh	Hytie Holy Miles Holy Change (15,000 Holy Change) (Maile Fig. 2000 155000 155000 1560000 1560000

Pavement Marking Maintenance & A2 Vision Zero Quick Build Project – FY 2023 File No. 2023-022 RFP No. 22-38

RFP No. 22-38	2-38				Pavement Marking Maintenance		A2 Vi	A2 Vision Zero Quick Build Project	d Project		
Prop.	tem			Total		- Inler Street	W Liberty Street	rt-		S University Avenue – S State	Washington
Line	N O	<u>Item Description</u>	<u>Pi</u>	Quantity	City Wide	Ann Street Glen Avenue		N Maple Road	Packard Street	Street	Street
180	8117050	_Pavt Mrkg, Polyurea, Only	Ва	10.000	10.000						
185	8117050	_Pavt Mrkg, Polyurea, Railroad Sym	Ea	1.000	1.000						
190	8117050	8117050 _Pavt Mrkg, Polyurea, Rtand Lt Tum Arrow Sym	Ea	1.000	1.000						
195	8117050	8117050 _Pavt Mrkg, Polyurea, Rt Tum Arrow Sym	Ea	10.000	10.000						
200	8117050 _	8117050 _Pavt Mrkg, Polyurea, School	Ea	2.000	2.000						
205	8117050	8117050 _Pavt Mrkg, Polyurea, Sharrow Symbol	Ea	22.000		2.000 2.000	0	8.000	2.000	8.000	
210	8117050 _	8117050 _Pavt Mrkg, Polyurea, Thru and Lt Tum Arrow Sym	Ea	2.000	1.000						1.000
215	8117050 _	8117050 _Pavt Mrkg, Polyurea, Thru and Rt Turn Arrow Sym	Ea	2.000	1.000						1.000
220	8117050 _	8117050 _Pavt Mrkg, Polyurea, Thru Arrow Sym	Ea	1.000	1.000						
225	8117050	8117050 _Pavt Mikg, Preformed Thermoplastic, Accessible Sym	Ea	2.000	2.000						
230	8117050 _	8117050 _Pavt Mrkg, Thermopl, Lt Tum Arrow Sym	Ea	100.000	100.000						
235	8117050 _	8117050 _Pavt Mrkg, Thermopl, Merge	Ea	1.000	1.000						
240	8117050 _	8117050 _Pavt Mrkg, Thermopl, Merge Arrow Sym	Ea	2.000	2.000						
245	8117050	_Pavt Mrkg, Thermopl, Only	Ea	80.000	80.000						
250	8117050	_Pavt Mrkg, Thermopl, Railroad Sym	Ea	1.000	1.000						
255	8117050	_Pavt Mrkg, Themopl, Rtand Lt Turn Arrow Sym	Ea	1.000	1.000						
260	8117050 _	8117050 _Pavt Mrkg, Thermopl, Rt Turn Arrow Sym	Ea	20.000	20.000						
265	8117050 _	8117050 _Pavt Mrkg, Thermopl, School	Ea	10.000	10.000						
270	8117050	8117050 Pavt Mrkg, Thermopl, Speed Hump Chevron, White	Ea	10.000	10.000						
275	8117050 _	8117050 _Pavt Mrkg, Thermopl, Thru and Lt Tum Arrow Sym	Ea	10.000	10.000						
280	8117050 _	8117050 _Pavt Mrkg, Thermopl, Thru and Rt Turn Arrow Sym	Ea	5.000	5.000						
285	8117050 _	8117050 _Pavt Mrkg, Thermopl, Thru Arrow Sym	Ea	5.000	5.000						
290	8117050	8117050 _Pavt Mrkg, Thermopl, Yield	Ea	2.000	2.000						

"General Decision Number: MI20220001 06/03/2022

Superseded General Decision Number: MI20210001

State: Michigan

Construction Types: Highway (Highway, Airport & Bridge xxxxx

and Sewer/Incid. to Hwy.)

Counties: Michigan Statewide.

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

| If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an |. The contractor must pay option is exercised) on or after January 30, 2022:

- . Executive Order 14026 generally applies to the contract.
- all covered workers at least \$15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.

If the contract was awarded on . Executive Order 13658 or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:

- generally applies to the contract.
- |. The contractor must pay all| covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

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

Additional information on contractor requirements and worker protections under the Executive Orders is available at https://www.dol.gov/agencies/whd/government-contracts.

Number	Publication Date
	01/07/2022
	01/21/2022
	02/11/2022
	02/25/2022
	03/25/2022
	04/08/2022
	04/15/2022
	04/29/2022
	05/06/2022
	06/03/2022
	Number

CARP0004-004 06/01/2019

REMAINDER OF STATE

	Rates	Fringes	
CARPENTER (Piledriver)	\$ 27.62	20.59	
CARP0004-005 06/01/2018			

LIVINGSTON (Townships of Brighton, Deerfield, Genoa, Hartland, Oceola & Tyrone), MACOMB, MONROE, OAKLAND, SANILAC, ST. CLAIR AND WAYNE COUNTIES

	Rates	Fringes
CARPENTER (Piledriver)	\$ 30.50	27.28
ELEC0017-005 06/01/2021		
STATEWIDE		
	Rates	Fringes
Line Construction		

Groundman/Driver......\$ 29.11 7.20+32%

Journeyman Signal Tech,

Communications Tech, Tower	
Tech & Fiber Optic Splicers.\$ 42.55	7.20+32%
Journeyman Specialist\$ 48.93	7.20+32%
Operator A\$ 35.96	7.20+32%
Operator B\$ 33.57	7.20+32%

Classifications

Journeyman Specialist: Refers to a crew of only one person working alone.

Operator A: Shall be proficient in operating all power equipment including: Backhoe,

Excavator, Directional Bore and Boom/Digger truck.

Operator B: Shall be proficient in operating any 2 of the

above mentioned pieces of equipment listed under Operator A.

ENGI0324-003 06/01/2021

ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWEE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:

		Rates	Fringes
OPERATOR: (Steel Erec	Power Equipment		
GROUP	1	¢ 40 00	24.85
GROUP	2		24.85
GROUP	3		24.85
GROUP	4	\$ 47.52	24.85
GROUP	5	\$ 45.02	24.85
GROUP	6	\$ 46.02	24.85
GROUP	7	\$ 44.75	24.85
GROUP	8		24.85
GROUP	9		24.85
GROUP			24.85
GROUP			24.85
GROUP	12		24.85
GROUP			24.85
GROUP			24.85
GROUP	15		24.85
GROUP			24.85
GROUP	=:		12.00
GROUP	18	\$ 28.38	12.00

FOOTNOTE:

Paid Holidays: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

- GROUP 1: Engineer when operating combination of boom and jib 400' or longer
- GROUP 2: Engineer when operating combination of boom and jib 400' or longer on a crane that requires an oiler
- GROUP 3: Engineer when operating combination of boom and jib 300' or longer
- GROUP 4: Engineer when operating combination of boom and jib 300' or longer on a crane that requires an oiler
- GROUP 5: Engineer when operating combination of boom and jib 220' or longer
- GROUP 6: Engineer when operating combination of boom and jib 220' or longer on a crane that requires an oiler
- GROUP 7: Engineer when operating combination of boom and jib 140' or longer
- GROUP 8: Engineer when operating combination of boom and jib 140' or longer on a crane that requires an oiler
- GROUP 9: Tower crane & derrick operator (where operator's work station is 50 ft. or more above first sub-level)
- GROUP 10: Tower crane & derrick operator (where operator's work station is 50 ft. or more above first sub-level) on a crane that requires an oiler
- GROUP 11: Engineer when operating combination of boom and jib 120' or longer
- GROUP 12: Engineer when operating combination of boom and jib 120' or longer on a crane that requires an oiler
- GROUP 13: Crane operator; job mechanic and 3 drum hoist and excavator
- GROUP 14: Crane operator on a crane that requires an oiler

GROUP 15: Hoisting operator; 2 drum hoist and rubber tired backhoe

GROUP 16: Forklift and 1 drum hoist

GROUP 17: Compressor or welder operator

GROUP 18: Oiler

ENGI0324-004 06/01/2021

AREA 1: ALLEGAN, BARRY, BERRIEN, BRANCH, CALHOUN, CASS, EATON, HILLSDALE, IONIA, KALAMAZOO, KENT, LAKE, MANISTEE, MASON, MECOSTA, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA, OTTAWA, ST. JOSEPH, VAN BUREN

AREA 2: ANTRIM, BENZIE, CHARLEVOIX, EMMET, GRAND TRAVERSE, KALKASKA, LEELANAU, MISSAUKEE AND WEXFORD COUNTIES:

	Rates	Fringes
OPERATOR: Power Equipment (Steel Erection) AREA 1		
GROUP 1	\$ 48.02	24.85
GROUP 2		24.85
GROUP 3		24.85
GROUP 4		24.85
GROUP 5	\$ 24.89	12.00
GROUP 6	\$ 28.38	12.00
AREA 2		
GROUP 1	\$ 48.02	24.85
GROUP 2	\$ 44.75	24.85
GROUP 3	\$ 43.21	24.85
GROUP 4	\$ 39.37	24.85
GROUP 5	\$ 24.89	12.00
GROUP 6	\$ 28.38	12.00

FOOTNOTES:

Crane operator with main boom and jib 300' or longer: \$1.50 additional to the group 1 rate. Crane operator with main boom and jib 400' or longer: \$3.00 additional to the group 1 rate.

PAID HOLIDAYS: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS:

GROUP 1: Crane Operator with main boom & jib 400', 300', or 220' or longer.

GROUP 2: Crane Operator with main boom & jib 140' or longer, Tower Crane; Gantry Crane; Whirley Derrick.

GROUP 3: Regular Equipment Operator, Crane, Dozer, Loader, Hoist, Straddle Wagon, Mechanic, Grader and Hydro Excavator.

GROUP 4: Air Tugger (single drum), Material Hoist Pump 6"" or over, Elevators, Brokk Concrete Breaker.

GROUP 5: Air Compressor, Welder, Generators, Conveyors

GROUP 6: Oiler and fire tender

ENGI0324-005 09/01/2021

AREA 1: GENESEE, LAPEER, LIVINGSTON, MACOMB, MONROE, OAKLAND, ST. CLAIR, WASHTENAW AND WAYNE COUNTIES

AREA 2: ALCONA, ALLEGAN, ALGER, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, 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, KWEENAW, LAKE, 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, SAGINAW, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

	Rates	Fringes
OPERATOR: Power Equipment (Underground construction (including sewer)) AREA 1:		
	¢ 27 62	24.05
GROUP 1	-	24.85
GROUP 2	\$ 32.90	24.85
GROUP 3	\$ 32.17	24.85
GROUP 4	\$ 31.60	24.85
GROUP 5	\$ 23.15	12.05
AREA 2:		
GROUP 1	\$ 35.92	24.85

GROUP 2	\$ 31.03	24.85
GROUP 3	\$ 30.53	24.85
GROUP 4	\$ 30.25	24.85
GROUP 5	\$ 23.15	12.05

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Backfiller tamper; Backhoe; Batch plant operator (concrete); Clamshell; Concrete paver (2 drums or larger); Conveyor loader (Euclid type); Crane (crawler, truck type or pile driving); Dozer; Dragline; Elevating grader; Endloader; Gradall (and similar type machine); Grader; Mechanic; Power shovel; Roller (asphalt); Scraper (self-propelled or tractor drawn); Side boom tractor (type D-4 or equivalent and larger); Slip form paver; Slope paver; Trencher (over 8 ft. digging capacity); Well drilling rig; Concrete pump with boom operator; Hydro Excavator

GROUP 2: Boom truck (power swing type boom); Crusher; Hoist; Pump (1 or more - 6-in. discharge or larger - gas or diesel- powered or powered by generator of 300 amperes or more - inclusive of generator); Side boom tractor (smaller than type D-4 or equivalent); Tractor (pneu-tired, other than backhoe or front end loader); Trencher (8-ft. digging capacity and smaller); Vac Truck and End dump operator;

GROUP 3: Air compressors (600 cfm or larger); Air compressors (2 or more-less than 600 cfm); Boom truck (non-swinging, non- powered type boom); Concrete breaker (self-propelled or truck mounted - includes compressor); Concrete paver (1 drum-1/2 yd. or larger); Elevator (other than passenger); Maintenance person; Pump (2 or more-4-in. up to 6-in. discharge-gas or diesel powered - excluding submersible pumps); Pumpcrete machine (and similar equipment); Wagon drill (multiple); Welding machine or generator (2 or more-300 amp. or larger - gas or diesel powered)

GROUP 4: Boiler; Concrete saw (40 hp or over); Curing machine (self-propelled); Farm tractor (with attachment); Finishing machine (concrete); Hydraulic pipe pushing machine; Mulching equipment; Pumps (2 or more up to 4-in. discharge, if used 3 hours or more a day, gas or diesel powered - excluding submersible pumps); Roller (other than asphalt); Stump remover; Trencher (service); Vibrating compaction equipment, self-propelled (6 ft. wide or over); Sweeper (Wayne type); Water wagon and Extend-a boom forklift

Group 5: Fire Person, Oiler

* ENGI0324-006 06/01/2021

GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW, WAYNE, ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, 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, LIVINGSTON, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

	Rates	Fringes
Power equipment operators: (AIRPORT, BRIDGE & HIGHWAY CONSTRUCTION)		
GROUP 1\$	36.86	24.85
GROUP 2\$	30.13	24.85
GROUP 3\$ GROUP 4\$		24.85 24.85

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Asphalt plant operator; Crane operator (does not include work on bridge construction projects when the crane operator is erecting structural components); Dragline operator; Shovel operator; Locomotive operator; Paver operator (5 bags or more); Elevating grader operator; Pile driving operator; Roller operator (asphalt); Blade grader operator; Trenching machine operator (ladder or wheel type); Auto-grader; Slip form paver; Self-propelled or tractor-drawn scraper; Conveyor loader operator (Euclid type); Endloader operator (1 yd. capacity and over); Bulldozer; Hoisting engineer; Tractor operator; Finishing machine operator (asphalt); Mechanic; Pump operator (6-in. discharge or over, gas, diesel powered or generator of 300 amp. or larger); Shouldering or gravel distributing machine operator (self- propelled); Backhoe (with over 3/8 yd. bucket); Side boom tractor (type D-4 or equivalent or larger); Tube finisher (slip form paving); Gradall (and similar type machine); Asphalt paver (self- propelled); Asphalt planer (self-propelled); Batch plant (concrete-central mix); Slurry machine (asphalt); Concrete

pump (3 in. and over); Roto-mill; Swinging boom truck (over 12 ton capacity); Hydro demolisher (water blaster); Farm-type tractor with attached pan; Vacuum truck operator; Batch Plant (concrete dry batch); Concrete Saw Operator (40h.p. or over; Tractor Operator (farm type); Finishing Machine Operator (concrete); Grader Operator (self-propelled fine grade or form (concrete)).

GROUP 2: Screening plant operator; Washing plant operator; Crusher operator; Backhoe (with 3/8 yd. bucket or less); Side boom tractor (smaller than D-4 type or equivalent); Sweeper (Wayne type and similar equipment); Greese Truck; Air Compressor Operator (600 cu.ft. per min or more); Air Compressor Operator (two or more, less than 600 cfm);

GROUP 3: Boiler fire tender; Tractor operator (farm type with attachment); Concrete Breaker; Wagon Drill Operator;

GROUP 4: Oiler; Fire tender; Trencher (service); Flexplane operator; Cleftplane operator; Boom or winch hoist truck operator; Endloader operator *under 1 yd. capacity); Roller Operator (other than asphalt); Curing equipment operator (self-propelled); Power bin operator; Plant drier (6 ft. wide or over); Guard post driver operator (power driven); All mulching equipment; Stump remover; Concrete pump (under 3-in.); Mesh installer (self-propelled); End dump; Skid Steer.

* ENGI0324-007 05/01/2022

ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:

	Rates	Fringes
OPERATOR: Power Equipment (Steel Erection)		
Compressor, welder and forklift	\$ 37.40	24.60
& jib 120' or longer Crane operator, main boom	\$ 43.87	24.60
& jib 140' or longer Crane operator, main boom	\$ 44.17	24.60
& jib 220' or longer Mechanic with truck and	\$ 44.17	24.60
tools	\$ 43.00	24.60

Oiler and fireman\$	35.86	24.60
Regular operator\$	41.22	24.60

ENGI0324-008 10/01/2020

ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GENESEE, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LIVINGSTON, LUCE, MACKINAC, MACOMB, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MONROE, MUSKEGON, NEWAYGO, OAKLAND, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN, WASHTENAW, WAYNE AND WEXFORD COUNTIES

		Rates	Fringes
OPERATOR: (Sewer Relation	Power Equipment		
•	1	\$ 35.37	14.31
GROUP	2	\$ 33.33	14.31

SEWER RELINING CLASSIFICATIONS

GROUP 1: Operation of audio-visual closed circuit TV system, including remote in-ground cutter and other equipment used in connection with the CCTV system

GROUP 2: Operation of hot water heaters and circulation systems, water jetters and vacuum and mechanical debris removal systems

* ENGI0325-012 05/01/2022

	Rates	Fringes
Power equipment operators - gas distribution and duct installation work:		
GROUP 1	\$ 34.83	24.85
GROUP 2	\$ 32.55	24.85

SCOPE OF WORK: The construction, installation, treating and reconditioning of pipelines transporting gas vapors within

cities, towns, subdivisions, suburban areas, or within private property boundaries, up to and including private meter settings of private industrial, governmental or other premises, more commonly referred to as ""distribution work,"" starting from the first metering station, connection, similar or related facility, of the main or cross country pipeline and including duct installation.

Group 1: Backhoe, crane, grader, mechanic, dozer (D-6 equivalent or larger), side boom (D-4 equivalent or larger), trencher(except service), endloader (2 yd. capacity or greater).

GROUP 2: Dozer (less than D-6 equivalent), endloader (under 2 yd. capacity), side boom (under D-4 capacity), backfiller, pumps (1 or 2 of 6-inch discharge or greater), boom truck (with powered boom), tractor (wheel type other than backhoe or front endloader). Tamper (self-propelled), boom truck (with non-powered boom), concrete saw (20 hp or larger), pumps (2 to 4 under 6-inch discharge), compressor (2 or more or when one is used continuously into the second day) and trencher(service). Oiler, hydraulic pipe pushing machine, grease person and hydrostatic testing operator.

IRON0008-007 06/01/2021

ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:

	Rates	Fringes
<pre>Ironworker - pre-engineered metal building erector</pre>	\$ 23.70	6.95
General contracts \$10,000,000 or greater	\$ 36.45	27.65
General contracts less than \$10,000,000	\$ 36.45	27.65

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0025-002 06/01/2021

ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO,

ISABELLA, JACKSON, LAPEER, LIVINGSTON, MACOMB, MIDLAND, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, SANILAC, SHIAWASSEE, ST. CLAIR, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:

	Rates	Fringes
Ironworker - pre-engineered metal building erector Alcona, Alpena, Arenac, Cheboygan, Clare, Clinton, Crawford, Gladwin, Gratiot, Huron, Ingham, Iosco, Isabella, Jackson, Lapeer, Livingston (west of Burkhardt Road), Montmorency, Ogemaw, Oscoda, Otsego, Presque Isle, Roscommon, Sanilac,		
Shiawassee, Tuscola & Washtenaw (west of U.S. 23) Bay, Genesee, Lapeer, Livingston (east of Burkhardt Road), Macomb, Midland, Oakland, Saginaw, St. Clair, The University of Michigan, Washtenaw		22.11
(east of U.S. 23) & Wayne. IRONWORKER	\$ 25.48	23.11
Ornamental and Structural. Reinforcing	\$ 32.99	29.03 30.76
IRON0055-005 07/01/2021		
LENAWEE AND MONROE COUNTIES:		
	Rates	Fringes
IRONWORKER Pre-engineered metal buildings	\$ 31.25	19.35 26.90
IRON0292-003 06/01/2020		
BERRIEN AND CASS COUNTIES:		

Rates Fringes

IRONWORKER (Including pre-engineered metal building erector)\$ 31.75	22.84
IRON0340-001 06/19/2017	
ALLEGAN, ANTRIM, BARRY, BENZIE, BRANCH, C	CALHOUN, CHARLEVOIX.

ALLEGAN, ANTRIM, BARRY, BENZIE, BRANCH, CALHOUN, CHARLEVOIX, EATON, EMMET, GRAND TRAVERSE, HILLSDALE, IONIA, KALAMAZOO, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MISSAUKEE, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA, OTTAWA, ST. JOSEPH, VAN BUREN AND WEXFORD COUNTIES:

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	Rates	Fringes
IRONWORKER (Including pre-engineered metal building erector)		24.67
LAB00005-006 10/01/2020		
	Rates	Fringes
Laborers - hazardous waste abatement: (ALCONA, ALPENA, ANTRIM, BENZIE, CHARLEVOIX, CHEBOYGAN, CRAWFORD, EMMET, GRAND TRAVERSE, IOSCO, KALKASKA, LEELANAU, MISSAUKEE, MONTMORENCY, OSCODA, OTSEGO, PRESQUE ISLE AND WEXFORD COUNTIES - Zone 10)		
Levels A, B or C		12.75 12.90
Also, Level D		12.75 12.90
Laborers - hazardous waste abatement: (ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC,		

MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT

COUNTIES - Zone 11) Levels A, B or C\$ 23.58	12.90
Work performed in	12.90
conjunction with site	
preparation not requiring	
the use of personal	
protective equipment;	
Also, Level D\$ 22.58	12.90
Laborers - hazardous waste	
abatement: (ALLEGAN, BARRY,	
BERRIEN, BRANCH, CALHOUN, CASS, IONIA COUNTY (except	
the city of Portland);	
KALAMAZOO, KENT, LAKE,	
MANISTEE, MASON, MECOSTA,	
MONTCALM, MUSKEGON, NEWAYGO,	
OCEANA, ÓSCEOLA, OTTAWA, ST.	
JOSEPH AND VAN BUREN COUNTIES	
- Zone 9)	
Levels A, B or C\$ 21.80	12.90
Work performed in	
conjunction with site	
preparation not requiring	
the use of personal	
<pre>protective equipment; Also, Level D\$ 20.80</pre>	12.90
Laborers - hazardous waste	12.90
abatement: (ARENAC, BAY,	
CLARE, GLADWIN, GRATIOT,	
HURON, ISABELLÁ, MIDLANĎ,	
OGEMAW, ROSCOMMON, SAGINAW	
AND TUSCOLA COUNTIES - Zone 8)	
Levels A, B or C\$ 21.39	12.90
Work performed in	
conjunction with site	
preparation not requiring	
the use of personal protective equipment;	
Also, Level D\$ 20.80	12.90
Laborers - hazardous waste	22.70
abatement: (CLINTON, EATON	
AND INGHAM COUNTIES; IONIA	
COUNTY (City of Portland);	
LIVINGSTON COUNTY (west of	
Oak Grove Rd., including the	
City of Howell) - Zone 6)	42.00
Levels A, B or C\$ 25.64	12.90
Work performed in conjunction with site	
preparation not requiring	
hi chai actour noc i chati tug	

the use of personal protective equipment; Also, Level D\$ 24.64 Laborers - hazardous waste abatement: (GENESEE, LAPEER AND SHIAWASSEE COUNTIES - Zone 7)	12.90
Levels A, B or C\$ 24.20 Work performed in conjunction with site preparation not requiring the use of personal protective equipment;	13.80
Also, Level D\$ 23.20 Laborers - hazardous waste abatement: (HILLSDALE, JACKSON AND LENAWEE COUNTIES - Zone 4)	13.80
Levels A, B or C\$ 25.17 Work performed in conjunction with site preparation not requiring the use of personal	12.90
protective equipment; Also, Level D\$ 24.17 Laborers - hazardous waste abatement: (LIVINGSTON COUNTY (east of Oak Grove Rd. and south of M-59, excluding the city of Howell); AND	12.90
WASHTENAW COUNTY - Zone 3) Levels A, B or C\$ 29.93 Work performed in conjunction with site preparation not requiring the use of personal	14.20
<pre>protective equipment; Also, Level D\$ 28.93 Laborers - hazardous waste abatement: (MACOMB AND WAYNE COUNTIES - Zone 1)</pre>	14.20
Levels A, B or C\$ 29.93 Work performed in conjunction with site preparation not requiring the use of personal	16.90
<pre>protective equipment; Also, Level D\$ 28.93 Laborers - hazardous waste abatement: (MONROE COUNTY -</pre>	16.90

Zone 4)	
·	.90
Work performed in conjunction with site	
preparation not requiring	
the use of personal	
protective equipment;	
·	.90
Laborers - hazardous waste	
abatement: (OAKLAND COUNTY	
and the Northeast portion of	
LIVINGSTON COUNTY bordered by	
Oak Grove Road on the West	
and M-59 on the South - Zone	
2) # 20.02	00
Level A, B, C\$ 29.93 16. Work performed in	.90
conjunction with site	
preparation not requiring	
the use of personal	
protective equipment;	
· · · · · · · · · · · · · · · · · · ·	.90
Laborers - hazardous waste	
abatement: (SANILAC AND ST.	
CLAIR COUNTIES - Zone 5)	
	. 35
Work performed in	
conjunction with site	
preparation not requiring	
the use of personal protective equipment;	
	. 35

LAB00259-001 09/01/2021

AREA 1: MACOMB, OAKLAND AND WAYNE COUNTIES
AREA 2: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GENESEE, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LIVINGSTON, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONROE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN, WASHTENAW AND WEXFORD COUNTIES

		Rates	Fringes
caisson:	tunnel, shaft and		
AREA 1	1	t 12 62	16 05
	1	•	16.95
	2		19.95
GROUP	3	\$ 23.79	16.95
GROUP	4	\$ 23.97	16.95
GROUP	5	\$ 24.22	16.95
GROUP	6	\$ 24.55	16.95
GROUP	7	\$ 17.83	16.95
AREA 2			
GROUP	1	\$ 25.15	12.95
GROUP	2	\$ 25.24	12.95
GROUP	3	\$ 25.34	12.95
GROUP	4	\$ 25.50	12.95

GROUP 5.....\$ 25.76

GROUP 6.....\$ 26.07

GROUP 7.....\$ 18.34

SCOPE OF WORK: Tunnel, shaft and caisson work of every type and description and all operations incidental thereto, including, but not limited to, shafts and tunnels for sewers, water, subways, transportation, diversion, sewerage, caverns, shelters, aquafers, reservoirs, missile silos and steel sheeting for underground construction.

12.95

12.95

12.95

TUNNEL LABORER CLASSIFICATIONS

GROUP 1: Tunnel, shaft and caisson laborer, dump, shanty, hog house tender, testing (on gas) and watchman

GROUP 2: Manhole, headwall, catch basin builder, bricklayer tender, mortar machine and material mixer

GROUP 3: Air tool operator (jackhammer, bush hammer and grinder), first bottom, second bottom, cage tender, car pusher, carrier, concrete, concrete form, concrete repair, cement invert laborer, cement finisher, concrete shoveler, conveyor, floor, gasoline and electric tool operator, gunite, grout operator, welder, heading dinky person, inside lock tender, pea gravel operator, pump, outside lock tender, scaffold, top signal person, switch person, track, tugger, utility person, vibrator, winch operator, pipe jacking, wagon drill and air track operator and concrete saw operator (under 40 h.p.)

GROUP 4: Tunnel, shaft and caisson mucker, bracer, liner

plate, long haul dinky driver and well point

GROUP 5: Tunnel, shaft and caisson miner, drill runner, key board operator, power knife operator, reinforced steel or mesh (e.g. wire mesh, steel mats, dowel bars, etc.)

GROUP 6: Dynamite and powder

GROUP 7: Restoration laborer, seeding, sodding, planting, cutting, mulching and top soil grading; and the restoration of property such as replacing mailboxes, wood chips, planter boxes, flagstones, etc.

LAB00334-001 09/01/2021

	Rates	Fringes
Laborers - open cut:		
ZONE 1 - MACOMB, OAKLAND		
AND WAYNE COUNTIES:		
GROUP 1	\$ 23.47	16.95
GROUP 2		16.95
GROUP 3	\$ 23.63	16.95
GROUP 4	\$ 23.71	16.95
GROUP 5	\$ 23.77	16.95
GROUP 6	\$ 21.22	16.95
GROUP 7	\$ 17.84	16.95
ZONE 2 - LIVINGSTON COUNTY	/	
(east of M-151 (Oak Grove		
Rd.)); MONROE AND		
WASHTENAW COUNTIES:		
GROUP 1	\$ 24.80	12.95
GROUP 2	\$ 24.91	12.95
GROUP 3	•	12.95
GROUP 4	•	12.95
GROUP 5	•	12.95
GROUP 6	•	12.95
GROUP 7	\$ 19.19	12.95
ZONE 3 - CLINTON, EATON,		
GENESEE, HILLSDALE AND		
INGHAM COUNTIES; IONIA		
COUNTY (City of Portland)		
JACKSON, LAPEER AND		
LENAWEE COUNTIES;	_	
LIVINGSTON COUNTY (west of	-	
M-151 Oak Grove Rd.);		
SANILAC, ST. CLAIR AND		
SHIAWASSEE COUNTIES:	4 00 00	40.05
GROUP 1	\$ 22.99	12.95

GROUP 2	12.95 12.95 12.95 12.95 12.95 12.95
JOSEPH, TUSCOLA, VAN BUREN	
AND WEXFORD COUNTIES:	
GROUP 1\$ 22.02 GROUP 2\$ 22.15	12.95 12.95
GROUP 3\$ 22.26	12.95
GROUP 4\$ 22.33	12.95
GROUP 5\$ 22.45	12.95
GROUP 6\$ 19.67	12.95
GROUP 7\$ 18.01	12.95
ZONE 5 - ALGER, BARAGA,	
CHIPPEWA, DELTA, DICKINSON, GOGEBIC,	
HOUGHTON, IRON,	
KEWEENAW, LUCE, MACKINAC,	
MARQUETTE, MENOMINEE,	
ONTONAGON AND SCHOOLCRAFT	
COUNTIES:	42.05
GROUP 1\$ 22.24 GROUP 2\$ 22.38	12.95 12.95
GROUP 3\$ 22.51	12.95
GROUP 4\$ 22.56	12.95
GROUP 5\$ 22.61	12.95
·	

GROUP	6\$	19.99	12.95
GROUP	7\$	18.10	12.95

SCOPE OF WORK:

Open cut construction work shall be construed to mean work which requires the excavation of earth including industrial, commercial and residential building site excavation and preparation, land balancing, demolition and removal of concrete and underground appurtenances, grading, paving, sewers, utilities and improvements; retention, oxidation, flocculation and irrigation facilities, and also including but not limited to underground piping, conduits, steel sheeting for underground construction, and all work incidental thereto, and general excavation. For all areas except the Upper Peninsula, open cut construction work shall also be construed to mean waterfront work, piers, docks, seawalls, breakwalls, marinas and all incidental Open cut construction work shall not include any structural modifications, alterations, additions and repairs to buildings, or highway work, including roads, streets, bridge construction and parking lots or steel erection work and excavation for the building itself and back filling inside of and within 5 ft. of the building and foundations, footings and piers for the building. Open cut construction work shall not include any work covered under Tunnel, Shaft and Caisson work.

OPEN CUT LABORER CLASSIFICATIONS

GROUP 1: Construction laborer

GROUP 2: Mortar and material mixer, concrete form person, signal person, well point person, manhole, headwall and catch basin builder, headwall, seawall, breakwall and dock builder

GROUP 3: Air, gasoline and electric tool operator, vibrator operator, driller, pump person, tar kettle operator, bracer, rodder, reinforced steel or mesh person (e.g., wire mesh, steel mats, dowel bars, etc.), welder, pipe jacking and boring person, wagon drill and air track operator and concrete saw operator (under 40 h.p.), windlass and tugger person and directional boring person

GROUP 4: Trench or excavating grade person

GROUP 5: Pipe layer (including crock, metal pipe, multi-plate or other conduits)

GROUP 6: Grouting man, audio-visual television operations and all other operations in connection with closed circuit television inspection, pipe cleaning and pipe relining work and the installation and repair of water service pipe and appurtenances

GROUP 7: Restoration laborer, seeding, sodding, planting, cutting, mulching and top soil grading; and the restoration of property such as replacing mailboxes, wood chips, planter boxes, flagstones, etc.

LAB00465-001 06/01/2021

LABORER: Highway, Bridge and Airport Construction

AREA 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES

AREA 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 COUNTIES

AREA 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 COUNTIES

AREA 4: ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES

1	Rates	Fringes
LABORER (AREA 1)		
GROUP 1\$	30.52	13.45
GROUP 2\$	30.65	13.45
GROUP 3\$	30.83	13.45
GROUP 4\$	30.91	13.45
GROUP 5\$	31.12	13.45
GROUP 6\$	31.42	13.45
LABORER (AREA 2)		
GROUP 1\$	26.92	12.90
GROUP 2\$	27.12	12.90
GROUP 3\$	27.36	12.90

GROUP	4\$	27.71	12.90
GROUP	5\$	27.58	12.90
GROUP	6\$	27.92	12.90
LABORER (AR	EA 3)		
GROÙP	1\$	26.22	12.90
GROUP	2\$	26.43	12.90
	3\$		12.90
GROUP	4\$	27.16	12.90
GROUP	5\$	26.78	12.90
GROUP	6\$	27.21	12.90
LABORER (AR	EA 4)		
GROUP	1\$	26.22	12.90
GROUP	2\$	26.43	12.90
GROUP	3\$	26.72	12.90
GROUP	4\$	27.16	12.90
GROUP	5\$	26.78	12.90
GROUP	6\$	27.21	12.90

LABORER CLASSIFICATIONS

GROUP 1: Asphalt shoveler or loader; asphalt plant misc.; burlap person; yard person; dumper (wagon, truck, etc.); joint filling laborer; miscellaneous laborer; unskilled laborer; sprinkler laborer; form setting laborer; form stripper; pavement reinforcing; handling and placing (e.g., wire mesh, steel mats, dowel bars); mason's tender or bricklayer's tender on manholes; manhole builder; headwalls, etc.; waterproofing, (other than buildings) seal coating and slurry mix, shoring, underpinning; pressure grouting; bridge pin and hanger removal; material recycling laborer; horizontal paver laborer (brick, concrete, clay, stone and asphalt); ground stabilization and modification laborer; grouting; waterblasting; top person; railroad track and trestle laborer; carpenters' tender; guard rail builders' tender; earth retention barrier and wall and M.S.E. wall installer's tender; highway and median installer's tender(including sound, retaining, and crash barriers); fence erector's tender; asphalt raker tender; sign installer; remote control operated equipment.

GROUP 2: Mixer operator (less than 5 sacks); air or electric tool operator (jackhammer, etc.); spreader; boxperson (asphalt, stone, gravel); concrete paddler; power chain saw operator; paving batch truck dumper; tunnel mucker (highway work only); concrete saw (under 40 h.p.) and dry pack machine; roto-mill grounds person.

GROUP 3: Tunnel miner (highway work only); finishers tenders; guard rail builders; highway and median barrier installer; earth retention barrier and wall and M.S.E. wall

installer's (including sound, retaining and crash barriers); fence erector; bottom person; powder person; wagon drill and air track operator; diamond and core drills; grade checker; certified welders; curb and side rail setter's tender.

GROUP 4: Asphalt raker

GROUP 5: Pipe layers, oxy-gun

GROUP 6: Line-form setter for curb or pavement; asphalt screed checker/screw man on asphalt paving machines.

LAB01076-005 04/01/2022

MICHIGAN STATEWIDE

	Rates	Fringes
LABORER (DISTRIBUTION WORK)		
Zone 1	\$ 25.17	13.32
Zone 2	\$ 23.47	13.40
Zone 3	\$ 21.60	13.45
Zone 4	\$ 20.97	13.43
Zone 5	\$ 21.00	13.40

DISTRIBUTION WORK - The construction, installation, treating and reconditioning of distribution pipelines transporting coal, oil, gas or other similar materials, vapors or liquids, including pipelines within private property boundaries, up to and including the meter settings on residential, commercial, industrial, institutional, private and public structures. All work covering pumping stations and tank farms not covered by the Building Trades Agreement. Other distribution lines with the exception of sewer, water and cable television are included.

Underground Duct Layer Pay: \$.40 per hour above the base pay rate.

Zone 1 - Macomb, Oakland and Wayne

Zone 2 - Monroe and Washtenaw

Zone 3 - Bay, Genesee, Lapeer, Midland, Saginaw, Sanilac, Shiawassee and St. Clair

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

Zone 5 - Remaining Counties in Michigan

PAIN0022-002 07/01/2008

HILLSDALE, JACKSON AND LENAWEE COUNTIES; LIVINGSTON COUNTY (east of the eastern city limits of Howell, not including the city of Howell, north to the Genesee County line and south to the Washtenaw County line); MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES:

	Rates	Fringes
PAINTER	\$ 25.06	14.75

FOOTNOTES: For all spray work and journeyman rigging for spray work, also blowing off, \$0.80 per hour additional (applies only to workers doing rigging for spray work on off the floor work. Does not include setting up or moving rigging on floor surfaces, nor does it apply to workers engaged in covering up or tending spray equipment. For all sandblasting and spray work performed on highway bridges, overpasses, tanks or steel, \$0.80 per hour additional. For all brushing, cleaning and other preparatory work (other than spraying or steeplejack work) at scaffold heights of fifty (50) feet from the ground or higher, \$0.50 per hour additional. For all preparatorial work and painting performed on open steel under forty (40) feet when no scaffolding is involved, \$0.50 per hour additional. For all swing stage work-window jacks and window belts-exterior and interior, \$0.50 per hour additional. For all spray work and sandblaster work to a scaffold height of forty (40) feet above the floor level, \$0.80 per hour additional. For all preparatorial work and painting on all highway bridges or overpasses up to forty (40) feet in height, \$0.50 per hour additional. For all steeplejack work performed where the elevation is forty (40) feet or more, \$1.25 per hour additional.

PAIN0312-001 06/01/2018

EXCLUDES: ALLEGAN COUNTY (Townships of Dorr, Fillmore, Heath, Hopkins, Laketown, Leighton, Manlius, Monterey, Overisel, Salem, Saugatuck and Wayland); INCLUDES: Barry, Berrien, Branch, Calhoun, Cass, Hillsdale, Kalamazoo, St. Joseph, Van Buren

Rates Fringes

PAINTER

Brush and roller	23.74	13.35
Spray, Sandblast, Sign		
Painting	24.94	13.35

PAIN0845-003 05/10/2018

CLINTON COUNTY; EATON COUNTY (does not include the townships of Bellevue and Olivet); INGHAM COUNTY; IONIA COUNTY (east of Hwy. M 66); LIVINGSTON COUNTY (west of the eastern city limits of Howell, including the city of Howell, north to the Genesee County line and south to the Washtenaw County line); AND SHIAWASSEE COUNTY (Townships of Bennington, Laingsbury and Perry):

	Rates	Fringes	
PAINTER	\$ 25.49	13.74	
DATUS AT 045 OF (40 (0040			-

PAIN0845-015 05/10/2018

MUSKEGON COUNTY; NEWAYGO COUNTY (except the Townships of Barton, Big Prairie, Brooks, Croton, Ensley, Everett, Goodwell, Grant, Home, Monroe, Norwich and Wilcox); OCEANA COUNTY; OTTAWA COUNTY (except the townships of Allendale, Blendone, Chester, Georgetown, Holland, Jamestown, Olive, Park, Polkton, Port Sheldon, Tallmadge, Wright and Zeeland):

	Rates	Fringes
PAINTER	.\$ 25.49	13.74
PAIN0845-018 05/10/2018		

ALLEGAN COUNTY (Townships of Dorr, Fillmore, Heath, Hopkins, Laketown, Leighton, Manlius, Monterey, Overisel, Salem, Saugatuck and Wayland); IONIA COUNTY (west of Hwy. M-66); KENT, MECOSTA AND MONTCALM COUNTIES; NEWAYGO COUNTY (Townships of Barton, Big Prairie, Brooks, Croton, Ensley, Everett, Goodwell, Grant, Home, Monroe, Norwich and Wilcox); OSCEOLA COUNTY (south of Hwy. #10); OTTAWA COUNTY (Townships of Allendale, Blendone, Chester, Georgetown, Holland, Jamestown, Olive, Park, Polkton, Port Sheldon, Tallmadge, Wright and Zeeland):

	Rates	Fringes
PAINTER	\$ 25.49	13.74

FOOTNOTES: Lead abatement work: \$1.00 per hour additional.

PAIN1011-003 06/02/2021

ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:

Rates Fringes

PAINTER.....\$ 26.71 14.38

FOOTNOTES: High pay (bridges, overpasses, watertower): 30 to 80 ft.: \$.65 per hour additional. 80 ft. and over: \$1.30 per hour additional.

PAIN1474-002 06/01/2010

HURON COUNTY; LAPEER COUNTY (east of Hwy. M-53); ST. CLAIR, SANILAC AND TUSCOLA COUNTIES:

Rates Fringes
PAINTER.....\$ 23.79 12.02

FOOTNOTES: Lead abatement work: \$1.00 per hour additional. Work with any hazardous material: \$1.00 per hour additional. Sandblasting, steam cleaning and acid cleaning: \$1.00 per hour additional. Ladder work at or above 40 ft., scaffold work at or above 40 ft., swing stage, boatswain chair, window jacks and all work performed over a falling height of 40 ft.: \$1.00 per hour additional. Spray gun work, pick pullers and those handling needles, blowing off by air pressure, and any person rigging (setting up and moving off the ground): \$1.00 per hour additional. Steeplejack, tanks, gas holders, stacks, flag poles, radio towers and beacons, power line towers, bridges, etc.: \$1.00 per hour additional, paid from the ground up.

DATMAGGS 003 05 /04 /2040

PAIN1803-003 06/01/2019

ALCONA, ALPENA, ANTRIM, ARENAC, BAY, BENZIE, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, GRATIOT, IOSCO, ISABELLA, KALKASKA, LAKE, LEELANAU, MANISTEE, MASON, MIDLAND, MISSAUKEE, MONTMORENCY AND OGEMAW COUNTIES;

OSCEOLA COUNTY (north of Hwy. #10); OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW AND WEXFORD COUNTIES:

Rates Fringes

PAINTER

Work performed on water, bridges over water or moving traffic, radio and powerline towers, elevated tanks, steeples, smoke stacks over 40 ft. of falling heights, recovery of lead-based paints and any work associated with industrial plants, except maintenance of industrial plants.....\$ 25.39 14.68 All other work, including maintenance of industrial plant....\$ 25.39 14.68

FOOTNOTES: Spray painting, sandblasting, blowdown associated with spraying and blasting, water blasting and work involving a swing stage, boatswain chair or spider: \$1.00 per hour additional. All work performed inside tanks, vessels, tank trailers, railroad cars, sewers, smoke stacks, boilers or other spaces having limited egress not including buildings, opentop tanks, pits, etc.: \$1.25 per hour additional.

PLAS0514-001 06/01/2018

ZONE 1: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, SAGINAW, WASHTENAW AND WAYNE COUNTIES

ZONE 2: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, 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

	Rates	Fringes	
CEMENT MASON/CONCRETE FINISHER			
ZONE 1	\$ 31.47	13.81	
ZONE 2	\$ 29.97	13.81	
DLIMA10A AA2 AE /A1 / 2A1E			

PLUM0190-003 05/01/2015

ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GENESEE, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LIVINGSTON, LUCE, MACKINAC, MACOMB, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MONROE, MUSKEGON, NEWAYGO, OAKLAND, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN, WASHTENAW, WAYNE AND WEXFORD COUNTIES

	Rates	Fringes
Plumber/Pipefitter - gas		
distribution pipeline:		
Welding in conjunction		
with gas distribution		
pipeline work	\$ 33.03	20.19
All other work:	\$ 24.19	12.28

TEAM0007-004 06/01/2020

AREA 1: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, 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, SAGINAW, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

AREA 2: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, WASHTENAW

AND WAYNE COUNTIES

	Rates	Fringes
TRUCK DRIVER		
AREA 1		
Euclids, double bottoms		
and lowboys	.\$ 28.05	.50 + a+b
Trucks under 8 cu. yds	.\$ 27.80	.50 + a+b
Trucks, 8 cu. yds. and		
over	.\$ 27.90	.50 + a+b
AREA 2		
Euclids, double bottomms		
and lowboys	.\$ 24.895	.50 + a+b
Euclids, double bottoms	.,	
and lowboys	\$ 28 15	.50 + a+b
Trucks under 8 cu. yds		.50 + a+b
_	.\$ 27.30	.JU T ATU
Trucks, 8 cu. yds. and	<i>t</i> 22 22	F0 1
over	.\$ 28.00	.50 + a+b
Footnote:		
a. \$470.70 per week		

b. \$68.70 daily

TEAM0247-004 04/01/2013

AREA 1: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, 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, SAGINAW, ST. CLAIR, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

AREA 2: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES

	Rates	Fringes
Sign Installer		
AREA 1		
GROUP 1	\$ 21.78	11.83
GROUP 2	\$ 25.27	11.8375

AREA 2			
GROUP	1\$	22.03	11.83
GROUP	2\$	25.02	11.8375

FOOTNOTE:

a. \$132.70 per week, plus \$17.80 per day.

SIGN INSTALLER CLASSIFICATIONS:

GROUP 1: performs all necessary labor and uses all tools required to construct and set concrete forms required in the installation of highway and street signs

GROUP 2: performs all miscellaneous labor, uses all hand and power tools, and operates all other equipment, mobile or otherwise, required for the installation of highway and street signs

TEAM0247-010 04/01/2018

AREA 1: LAPEER AND SHIAWASSEE COUNTIES

AREA 2: GENESEE, MACOMB, MONROE, OAKLAND, ST. CLAIR, WASHTENAW AND WAYNE COUNTIES

	Rates	Fringes
TRUCK DRIVER (Under construction)	ground	
AREA 1	\$ 23.82	19.04
	\$ 23.91	
	\$ 24.12	
AREA 2		
GROUP 1	\$ 24.12	19.04
GROUP 2	\$ 24.26	19.04
GROUP 3	\$ 24.45	19.04

PAID HOLIDAYS: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

SCOPE OF WORK: Excavation, site preparation, land balancing, grading, sewers, utilities and improvements; also including but not limited to, tunnels, underground piping, retention, oxidation, flocculation facilities, conduits, general excavation and steel sheeting for underground construction.

Underground construction work shall not include any structural modifications, alterations, additions and repairs to buildings or highway work, including roads, streets, bridge construction and parking lots or steel erection.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Truck driver on all trucks (EXCEPT dump trucks of 8 cubic yards capacity or over, pole trailers, semis, low boys, Euclid, double bottom and fuel trucks)

GROUP 2: Truck driver on dump trucks of 8 cubic yards capacity or over, pole trailers, semis and fuel trucks

GROUP 3: Truck driver on low boy, Euclid and double bottom

* SUMI2002-001 05/01/2002

COUNTIES)

30::==30= 30= 35, 3=, =30=		
	Rates	Fringes
Flag Person	\$ 10.10 **	0.00
LINE PROTECTOR (ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE)	\$ 22.89	13.45
LINE PROTECTOR (ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE)	\$ 20.19	13.45
Pavement Marking Machine (ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES) Group 1	\$ 30.52	13.45
Pavement Marking Machine (ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE) Group 2	\$ 27.47	13.45
Pavement Marking Machine (ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE		

Group 1.....\$ 26.92 13.45

Pavement Marking Machine
(ZONE 2: STATEWIDE (EXCLUDING
GENESEE, MACOMB, MONROE,
OAKLAND, WASHTENAW AND WAYNE)

Group 2.....\$ 24.23 13.45

WORK CLASSIFICATIONS:

PAVEMENT MARKER GROUP 1: Drives or operates a truck mounted striper, grinder, blaster, groover, or thermoplastic melter for the placement or removal of temporary or permanent pavement markings or markers.

PAVEMENT MARKER GROUP 2: Performs all functions involved for the placement or removal of temporary or permanent pavement markings or markers not covered by the classification of Pavement Marker Group 1 or Line Protector.

LINE PROTECTOR: Performs all operations for the protection or removal of temporary or permanent pavement markings or markers in a moving convoy operation not performed by the classification of Pavement Marker Group 1. A moving convoy operation is comprised of only Pavement Markers Group 1 and Line Protectors.

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

** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$15.00) or 13658 (\$11.25). Please see the Note at the top of the wage determination for more information.

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

health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at

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

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

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

Union Rate Identifiers

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

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

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and

the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

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

Union Average Rate Identifiers

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

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

WAGE DETERMINATION APPEALS PROCESS

- 1.) Has there been an initial decision in the matter? This can be:
- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour

National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

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

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

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

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

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

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

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

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

END OF GENERAL DECISIO"

CONSTRUCTION REQUEST FOR PROPOSAL

RFP No. 22-38

PAVEMENT MARKING MAINTENANCE - FY 2023

City of Ann Arbor ENGINEERING/PUBLIC SERVICES



Due Date: June 29, 2022 by 2:00 p.m. (local time)

Issued By:

City of Ann Arbor Procurement Unit 301 E. Huron Street Ann Arbor, MI 48104

TABLE OF CONTENTS

SECTION I: GENERAL INFORMATION	3
SECTION II: SCOPE OF WORK	10
SECTION III: MINIMUM INFORMATION REQUIRED	11
SECTION IV: ATTACHMENTS	19

SECTION I - GENERAL INFORMATION

A. OBJECTIVE

The purpose of this Request for Proposal (RFP) is to select a firm to provide construction services for the Pavement Marking Maintenance – FY 2023.

B. QUESTIONS AND CLARIFICATIONS / DESIGNATED CITY CONTACTS

All questions regarding this Request for Proposal (RFP) shall be submitted via e-mail. Questions will be accepted and answered in accordance with the terms and conditions of this RFP.

All questions shall be submitted on or before June 20, 2022 at 5:00 p.m. (local time), and should be addressed as follows:

Scope of Work/Proposal Content questions shall be e-mailed to David Dykman, Project Manager, ddykman@a2gov.org.

RFP Process and Compliance questions shall be e-mailed to Colin Spencer, Buyer - CSpencer@a2gov.org.

Should any prospective bidder be in doubt as to the true meaning of any portion of this RFP, or should the prospective bidder find any ambiguity, inconsistency, or omission therein, the prospective bidder shall make a written request for an official interpretation or correction by the due date for questions above.

All interpretations, corrections, or additions to this RFP will be made only as an official addendum that will be posted to a2gov.org and MITN.info and it shall be the prospective bidder's responsibility to ensure they have received all addenda before submitting a proposal. Any addendum issued by the City shall become part of the RFP, and must be incorporated in the proposal where applicable.

C. PRE-PROPOSAL MEETING

No pre-proposal meeting will be held for this RFP. Please contact staff indicated above with general questions regarding the RFP.

D. PROPOSAL FORMAT

To be considered, each firm must submit a response to this RFP using the format provided in Section III. No other distribution of proposals is to be made by the prospective bidder. An official authorized to bind the bidder to its provisions must sign the proposal. Each proposal must remain valid for at least one hundred and twenty (120) days from the due date of this RFP.

Proposals should be prepared simply and economically providing a straightforward, concise description of the bidder's ability to meet the requirements of the RFP. No erasures are permitted. Mistakes may be crossed out and corrected and must be initialed in ink by the person signing the proposal.

E. SELECTION CRITERIA

Responses to this RFP will be evaluated using a point system as shown in Section III. A selection committee comprised primarily of staff from the City will complete the evaluation.

If interviews are desired by the City, the selected firms will be given the opportunity to discuss their proposal, qualifications, past experience, and their fee proposal in more detail. The City further reserves the right to interview the key personnel assigned by the selected bidder to this project.

All proposals submitted may be subject to clarifications and further negotiation. All agreements resulting from negotiations that differ from what is represented within the RFP or in the proposal response shall be documented and included as part of the final contract.

F. SEALED PROPOSAL SUBMISSION

All proposals are due and must be delivered to the City on or before June 29, 2022 by 2:00 p.m. (local time). Proposals submitted late or via oral, telephonic, telegraphic, electronic mail or facsimile will not be considered or accepted.

Each respondent should submit in a sealed envelope

- one (1) original proposal
- one (1) additional proposal copy
- one (1) digital copy of the proposal preferably on a USB/flash drive as one file in PDF format

Proposals submitted should be clearly marked: "RFP No. 22-38 – PAVEMENT MARKING MAINTENANCE – FY2023" and list the bidder's name and address.

Proposals must be addressed and delivered to: City of Ann Arbor c/o Customer Service 301 East Huron Street Ann Arbor, MI 48107

All proposals received on or before the due date will be publicly opened and recorded on the due date. No immediate decisions will be rendered.

Hand delivered proposals may be dropped off in the Purchasing drop box located in the Ann Street (north) vestibule/entrance of City Hall which is accessible to the public at all hours. The City will not be liable to any prospective bidder for any unforeseen circumstances, delivery, or postal delays. Postmarking on the due date will not substitute for receipt of the proposal.

Bidders are responsible for submission of their proposal. Additional time will not be granted to a single prospective bidder. However, additional time may be granted to all prospective bidders at the discretion of the City.

A proposal may be disqualified if the following required forms are not included with the proposal:

- Attachment D Prevailing Wage Declaration of Compliance
- Attachment E Living Wage Declaration of Compliance
- Attachment G Vendor Conflict of Interest Disclosure Form
- Attachment H Non-Discrimination Declaration of Compliance

Proposals that fail to provide these forms listed above upon proposal opening may be deemed non-responsive and may not be considered for award.

G. DISCLOSURES

Under the Freedom of Information Act (Public Act 442), the City is obligated to permit review of its files, if requested by others. All information in a proposal is subject to disclosure under this provision. This act also provides for a complete disclosure of contracts and attachments thereto.

H. TYPE OF CONTRACT

A sample of the Construction Agreement is included as Attachment A. Those who wish to submit a proposal to the City are required to review this sample agreement carefully. **The City will not entertain changes to its Construction Agreement.**

For all construction work, the respondent must further adhere to the City of Ann Arbor General Conditions. The General Conditions are included herein. Retainage will be held as necessary based on individual tasks and not on the total contract value. The Contractor shall provide the required bonds included in the Contract Documents for the duration of the Contract.

The City reserves the right to award the total proposal, to reject any or all proposals in whole or in part, and to waive any informality or technical defects if, in the City's sole judgment, the best interests of the City will be so served.

This RFP and the selected bidder's response thereto, shall constitute the basis of the scope of services in the contract by reference.

I. NONDISCRIMINATION

All bidders proposing to do business with the City shall satisfy the contract compliance administrative policy adopted by the City Administrator in accordance with the Section 9:158 of the Ann Arbor City Code. Breach of the obligation not to discriminate as outlined in Attachment G shall be a material breach of the contract. Contractors are required to post a copy of Ann Arbor's Non-Discrimination Ordinance attached at all work locations where its employees provide services under a contract with the City.

J. WAGE REQUIREMENTS

The Attachments provided herein outline the requirements for payment of prevailing wages or of a "living wage" to employees providing service to the City under this contract. The successful bidder must comply with all applicable requirements and provide documentary proof of compliance when requested.

Pursuant to Resolution R-16-469 all public improvement contractors are subject to prevailing wage and will be required to provide to the City payroll records sufficient to demonstrate compliance with the prevailing wage requirements. Use of Michigan Department of Transportation Prevailing Wage Forms (sample attached hereto) or a City-approved equivalent will be required along with wage rate interviews.

For laborers whose wage level are subject to federal, state and/or local prevailing wage law the appropriate Davis-Bacon wage rate classification is identified based upon the work including within this contract. **The wage determination(s) current on the date 10 days before proposals are due shall apply to this contract.** The U.S. Department of Labor (DOL) has provided explanations to assist with classification in the following resource link: www.wdol.gov.

For the purposes of this RFP the Construction Type of Highway will apply.

K. CONFLICT OF INTEREST DISCLOSURE

The City of Ann Arbor Purchasing Policy requires that the consultant complete a Conflict of Interest Disclosure form. A contract may not be awarded to the selected bidder unless and until the Procurement Unit and the City Administrator have reviewed the Disclosure form and determined that no conflict exists under applicable federal, state, or local law or administrative regulation. Not every relationship or situation disclosed on the Disclosure Form may be a disqualifying conflict. Depending on applicable law and regulations, some contracts may awarded on the recommendation of the City Administrator after full disclosure, where such action is allowed by law, if demonstrated competitive pricing exists and/or it is determined the award is in the best interest of the City. A copy of the Conflict of Interest Disclosure Form is attached.

L. COST LIABILITY

The City of Ann Arbor assumes no responsibility or liability for costs incurred by the bidder prior to the execution of an Agreement. The liability of the City is limited to the terms and conditions outlined in the Agreement. By submitting a proposal, bidder agrees to bear all costs incurred or related to the preparation, submission, and selection process for the proposal.

M. DEBARMENT

Submission of a proposal in response to this RFP is certification that the Respondent is not currently debarred, suspended, proposed for debarment, and declared ineligible or voluntarily excluded from participation in this transaction by any State or Federal departments or agency. Submission is also agreement that the City will be notified of any changes in this status.

N. PROPOSAL PROTEST

All proposal protests must be in writing and filed with the Purchasing Manager within five (5) business days of the award action. The bidder must clearly state the reasons for the protest. If any bidder contacts a City Service Area/Unit and indicates a desire to protest an award, the Service Area/Unit shall refer the bidder to the Purchasing Manager. The Purchasing Manager will provide the bidder with the appropriate instructions for filing the protest. The protest shall be reviewed by the City Administrator or designee, whose decision shall be final.

Any inquiries or requests regarding this procurement should be only submitted in writing to the Designated City Contacts provided herein. Attempts by the bidder to initiate contact with anyone other than the Designated City Contacts provided herein that the bidder believes can influence the procurement decision, e.g., Elected Officials, City Administrator, Selection Committee Members, Appointed Committee Members, etc., may lead to immediate elimination from further consideration.

O. SCHEDULE

The following is the schedule for this RFP process.

Activity/Event Anticipated Date

Written Question Deadline

Addenda Published (if needed)

Proposal Due Date

Selection/Negotiations

June 20, 2022, 5:00 p.m. (Local Time)

June 22, 2022

June 28, 2022, 2:00 p.m. (Local Time)

July 2022

Expected City Council Authorizations

August 2022

The above schedule is for information purposes only and is subject to change at the City's discretion.

P. IRS FORM W-9

The selected bidder will be required to provide the City of Ann Arbor an IRS form W-9.

Q. RESERVATION OF RIGHTS

- 1. The City reserves the right in its sole and absolute discretion to accept or reject any or all proposals, or alternative proposals, in whole or in part, with or without cause.
- 2. The City reserves the right to waive, or not waive, informalities or irregularities in terms or conditions of any proposal if determined by the City to be in its best interest.
- 3. The City reserves the right to request additional information from any or all bidders.
- 4. The City reserves the right to reject any proposal that it determines to be unresponsive and deficient in any of the information requested within RFP.
- The City reserves the right to determine whether the scope of the project will be entirely as described in the RFP, a portion of the scope, or a revised scope be implemented.
- 6. The City reserves the right to select one or more contractors or service providers to perform services.
- 7. The City reserves the right to retain all proposals submitted and to use any ideas in a proposal regardless of whether that proposal is selected. Submission of a proposal indicates acceptance by the firm of the conditions contained in this RFP, unless clearly and specifically noted in the proposal submitted.
- 8. The City reserves the right to disqualify proposals that fail to respond to any requirements outlined in the RFP, or failure to enclose copies of the required documents outlined within the RFP.

R. IDLEFREE ORDINANCE

The City of Ann Arbor adopted an idling reduction Ordinance that went into effect July 1, 2017. The full text of the ordinance (including exemptions) can be found at: www.a2gov.org/idlefree.

Under the ordinance, No Operator of a Commercial Vehicle shall cause or permit the Commercial Vehicle to Idle:

- (a) For any period of time while the Commercial Vehicle is unoccupied; or
- (b) For more than 5 minutes in any 60-minute period while the Commercial Vehicle is occupied.

In addition, generators and other internal combustion engines are covered

(1) Excluding Motor Vehicle engines, no internal combustion engine shall be operated except when it is providing power or electrical energy to equipment or a tool that is actively in use.

S. ENVIRONMENTAL COMMITMENT

The City of Ann Arbor recognizes its responsibility to minimize negative impacts on human health and the environment while supporting a vibrant community and economy. The City further recognizes that the products and services the City buys have inherent environmental and economic impacts and that the City should make procurement decisions that embody, promote, and encourage the City's commitment to the environment.

The City encourages potential vendors to bring forward emerging and progressive products and services that are best suited to the City's environmental principles.

T. BID SECURITY

Each bid <u>must be accompanied</u> by a certified check, or Bid Bond by a surety licensed and authorized to do business within the State of Michigan, in the amount of 5% of the total of the bid price.

U. MAJOR SUBCONTRACTORS

The Bidder shall identify each major subcontractor it expects to engage for this Contract if the work to be subcontracted is 15% or more of the bid sum or over \$50,000, whichever is less. The Bidder also shall identify the work to be subcontracted to each major subcontractor. The Bidder shall not change or replace a subcontractor without approval by the City.

V. LIQUIDATED DAMAGES

A liquidated damages clause, as given on page C-2, Article III of the Contract, provides that the Contractor shall pay the City as liquidated damages, and not as a penalty, a sum certain per day for each and every day that the Contractor may be in default of completion of the specified work, within the time(s) stated in the Contract, or written extensions.

Liquidated damages clauses, as given in the General Conditions, provide further that the City shall be entitled to impose and recover liquidated damages for breach of the obligations under Chapter 112 of the City Code.

The liquidated damages are for the non-quantifiable aspects of any of the previously identified events and do not cover actual damages that can be shown or quantified nor are they intended to preclude recovery of actual damages in addition to the recovery of liquidated damages.

SECTION II - SCOPE OF WORK

Please see the schedule of pricing, project log and detailed specifications for more details.

SECTION III - MINIMUM INFORMATION REQUIRED

PROPOSAL FORMAT

The following describes the elements that should be included in each of the proposal sections and the weighted point system that will be used for evaluation of the proposals.

Bidders should organize Proposals into the following Sections:

- A. Qualifications, Experience and Accountability
- B. Workplace Safety
- C. Workforce Development
- D. Social Equity and Sustainability
- E. Schedule of Pricing/Cost
- F. Authorized Negotiator
- G. Attachments

Bidders are strongly encouraged to provided details for all of the information requested below within initial proposals. Backup documentation may be requested at the sole discretion of the City to validate all of the responses provided herein by bidders. False statements by bidders to any of the criteria provided herein will result in the proposal being considered non-responsive and will not be considered for award.

Pursuant to Sec 1:314(9) of the City Code which sets forth requirements for evaluating construction bids, Bidders should submit the following:

A. Qualifications, Experience and Accountability - 20 Points

- 1. Qualifications and experience of the bidder and of key persons, management, and supervisory personnel to be assigned by the bidder.
- 2. References from individuals or entities the bidder has worked for within the last five (5) years including information regarding records of performance and job site cooperation.
- 3. Evidence of any quality assurance program used by the bidder and the results of any such program on the bidder's previous projects.
- 4. A statement from the bidder as to any major subcontractors it expects to engage including the name, work, and amount.

B. Workplace Safety – 20 Points

- 1. Documentation of an on-going, Michigan OSHA-approved safety-training program for employees to be used on the proposed job site.
- 2. Evidence of the bidder's worker's compensation Experience Modification Rating ("EMR"). Preference within this criterion will be given to an EMR of 1.0 or less based on a three-year average.
- 3. Evidence that all craft labor that will be employed by the bidder for the project has, or will have prior to project commencement, completed at least the OSHA 10-hour training course for safety established by the U.S. Department of Labor, Occupational Safety & Health Administration.
- 4. The safety record of bidder and major subcontractors, including OSHA, MIOSHA, or other safety violations.

C. Workforce Development – 20 Points

- 1. The ratio of masters or journeypersons to apprentices proposed to be used on the construction project job site, if apprentices are to be used on the project.
- 2. Documentation as to bidder's pay rates, health insurance, pension or other retirement benefits, paid leave, or other fringe benefits to its employees.
- 3. Documentation that the bidder participates in a Registered Apprenticeship Program that is registered with the United States Department of Labor Office of Apprenticeship or by a State Apprenticeship Agency recognized by the USDOL Office of Apprenticeship.

D. Social Equity and Sustainability – 20 Points

- 1. A statement from the bidder as to what percentage of its workforce resides in the City of Ann Arbor and in Washtenaw County, Michigan. The City will consider in evaluating which bids best serve its interests, the extent to which responsible and qualified bidders are able to achieve this goal.
- 2. Evidence of Equal Employment Opportunity Programs for minorities, women, veterans, returning citizens, and small businesses.
- 3. Evidence that the bidder is an equal opportunity employer and does not discriminate on the basis of race, sex, pregnancy, age, religion, national origin,

marital status, sexual orientation, gender identity or expression, height, weight, or disability.

- 4. The bidder's proposed use of sustainable products, technologies, or practices for the project, which reduce the impact on human health and the environment, including raw materials acquisition, production, manufacturing, packaging, distribution, reuse, operation, maintenance, and waste management.
- 5. The bidder's environmental record, including findings of violations and penalties imposed by government agencies.

E. Schedule of Pricing/Cost – 20 Points

Unit Price Bid

No.	<u>No.</u>	Item Description	<u>Unit</u>	<u>Quantity</u>	Unit Price	Total Price
5	1047051	_Certified Payroll Compliance and Reporting	LSUM	1.000	\$	\$
10	1507051	_Mobilization, Max. \$5,000.00	LSUM	1.000	\$	\$
15	8117001	_Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Ft	2,000.000	\$	\$
20	8117001	_Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	Ft	150.000	\$	\$
25	8117001	_Pavt Mrkg, Polyurea, 12 inch, Cross Hatching, White	Ft	210.000	\$	\$
30	8117001	_Pavt Mrkg, Polyurea, 12 inch, Cross Hatching, Yellow	Ft	210.000	\$	\$
35	8117001	_Pavt Mrkg, Polyurea, 12 inch, Crosswalk	Ft	950.000	\$	\$
40	8117001	_Pavt Mrkg, Polyurea, 24 inch, Crosswalk	Ft	50.000	\$	\$
45	8117001	_Pavt Mrkg, Polyurea, 24 inch, Stop Bar	Ft	375.000	\$	\$
50	8117001	_Pavt Mrkg, Polyurea, 4 inch, White	Ft	15,000.000	\$	\$
55	8117001	_Pavt Mrkg, Polyurea, 4 inch, Yellow	Ft	65,000.000	\$	\$
60	8117001	_Pavt Mrkg, Polyurea, 6 inch, Crosswalk	Ft	225.000	\$	\$
65	8117001	_Pavt Mrkg, Polyurea, 6 inch, White	Ft	17,500.000	\$	\$
70	8117001	_Pavt Mrkg, Sprayable Thermopl, 4 inch, White	Ft	25,000.000	\$	\$
75	8117001	_Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	125,000.000	\$	\$
80	8117001	_Pavt Mrkg, Sprayable Thermopl, 6 inch, White	Ft	50,000.000	\$	\$
85	8117001	_Pavt Mrkg, Thermopl, 12 inch, Cross Hatching, White	Ft	175.000	\$	\$
90	8117001	_Pavt Mrkg, Thermopl, 12 inch, Cross Hatching, Yellow	Ft	750.000	\$	\$
					TOTAL THIS DAGE	Φ

TOTAL THIS PAGE \$_____

Unit Price Bid

No.	<u>No.</u>	Item Description	<u>Unit</u>	<u>Quantity</u>	Unit Price	Total Price
95	8117001	_Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	7,500.000	\$	\$
100	8117001	_Pavt Mrkg, Thermopl, 24 inch, Crosswalk	Ft	12,750.000	\$	\$
105	8117001	_Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	6,500.000	\$	\$
110	8117001	_Pavt Mrkg, Thermopl, 6 inch, White	Ft	2,500.000	\$	\$
115	8117001	_Pavt Mrkg, Thermopl, For On-Street Parking, 4 inch, White	Ft	175.000	\$	\$
120	8117001	_Recessing Pavement Markings, Longit	Ft	50,000.000	\$	\$
125	8117010	_Pavt Mrkg, Polymer Cement Surface, Bike Lane Green	Sft	7,500.000	\$	\$
130	8117010	_Recessing Pavement Markings, Transv	Sft	600.000	\$	\$
135	8117010	_Rem Spec Mrkg	Sft	750.000	\$	\$
140	8117050	_Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	Ea	10.000	\$	\$
145	8117050	_Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike	Ea	10.000	\$	\$
150	8117050	_Pavt Mrkg, Ovly Cold Plastic, Sharrow Symbol	Ea	15.000	\$	\$
155	8117050	_Pavt Mrkg, Ovly Cold Plastic, Speed Hump Chevron, White	Ea	10.000	\$	\$
160	8117050	_Pavt Mrkg, Polyurea, Lt Turn Arrow Sym	Ea	10.000	\$	\$
165	8117050	_Pavt Mrkg, Polyurea, Only	Ea	15.000	\$	\$
170	8117050	_Pavt Mrkg, Polyurea, Railroad Sym	Ea	1.000	\$	\$
175	8117050	_Pavt Mrkg, Polyurea, Rt and Lt Turn Arrow Sym	Ea	1.000	\$	\$
180	8117050	_Pavt Mrkg, Polyurea, Rt Turn Arrow Sym	Ea	10.000	\$	\$
185	8117050	_Pavt Mrkg, Polyurea, School	Ea	5.000	\$	\$
190	8117050	_Pavt Mrkg, Polyurea, Thru and Lt Turn Arrow Sym	Ea	1.000	\$	\$
		15	;		TOTAL THIS PAGE	\$

Unit Price Bid

<u>No.</u>	No.	Item Description	<u>Unit</u>	Quantity	<u>Unit Price</u>	Total Price
195	8117050	_Pavt Mrkg, Polyurea, Thru and Rt Turn Arrow Sym	Ea	1.000	\$	\$
200	8117050	_Pavt Mrkg, Polyurea, Thru Arrow Sym	Ea	2.000	\$	\$
205	8117050	_Pavt Mrkg, Preformed Thermoplastic, Accessible Sym	Ea	5.000	\$	\$
210	8117050	_Pavt Mrkg, Thermopl, Lt Turn Arrow Sym	Ea	100.000	\$	\$
215	8117050	_Pavt Mrkg, Thermopl, Merge	Ea	2.000	\$	\$
220	8117050	_Pavt Mrkg, Thermopl, Merge Arrow Sym	Ea	2.000	\$	\$
225	8117050	_Pavt Mrkg, Thermopl, Only	Ea	110.000	\$	\$
230	8117050	_Pavt Mrkg, Thermopl, Railroad Sym	Ea	2.000	\$	\$
235	8117050	_Pavt Mrkg, Thermopl, Rt and Lt Turn Arrow Sym	Ea	2.000	\$	\$
240	8117050	_Pavt Mrkg, Thermopl, Rt Turn Arrow Sym	Ea	35.000	\$	\$
245	8117050	_Pavt Mrkg, Thermopl, School	Ea	15.000	\$	\$
250	8117050		Ea	15.000	\$	\$
255	8117050	_Pavt Mrkg, Thermopl, Thru and Lt Turn Arrow Sym	Ea	10.000	\$	\$
260	8117050	_Pavt Mrkg, Thermopl, Thru and Rt Turn Arrow Sym	Ea	5.000	\$	\$
265	8117050	_Pavt Mrkg, Thermopl, Thru Arrow Sym	Ea	10.000	\$	\$
270	8117050	_Pavt Mrkg, Thermopl, Yield	Ea	4.000	\$	\$
					TOTAL THIS PAGE	\$
				TC	TAL FROM PAGE 14	\$
				TC	TAL FROM PAGE 15	\$
					TOTAL BASE BID	\$

F. AUTHORIZED NEGOTIATOR / NEGOTIATIBLE ELEMENTS (ALTERNATES)

Include the name, phone number, and e-mail address of persons(s) in your organization authorized to negotiate the agreement with the City.

The proposal price shall include materials and equipment selected from the designated items and manufacturers listed in the bidding documents. This is done to establish uniformity in bidding and to establish standards of quality for the items named.

If the bidder wishes to quote alternate items for consideration by the City, it may do so under this Section. A complete description of the item and the proposed price differential must be provided. Unless approved at the time of award, substitutions where items are specifically named will be considered only as a negotiated change in Contract Sum.

If the Bidder takes exception to the time stipulated in Article III of the Contract, Time of Completion, page C-2, it is requested to stipulate its proposed time for performance of the work.

Consideration for any proposed alternative items or time may be negotiated at the discretion of the City.

G. ATTACHMENTS

General Declaration, Legal Status of Bidder, Conflict of Interest Form, Living Wage Compliance Form, Prevailing Wage Compliance Form and the Non-Discrimination Form should be completed and returned with the proposal. These elements should be included as attachments to the proposal submission.

PROPOSAL EVALUATION

- 1. The selection committee will evaluate each proposal by the above-described criteria and point system. The City reserves the right to reject any proposal that it determines to be unresponsive and deficient in any of the information requested for evaluation. A proposal with all the requested information does not guarantee the proposing firm to be a candidate for an interview if interviews are selected to be held by the City. The committee may contact references to verify material submitted by the bidder.
- 2. The committee then will schedule interviews with the selected firms if necessary. The selected firms will be given the opportunity to discuss in more detail their qualifications, past experience, proposed work plan (if applicable) and pricing.
- 3. The interview should include the project team members expected to work on the project, but no more than six members total. The interview shall consist of a presentation of up to thirty minutes (or the length provided by the committee) by the

bidder, including the person who will be the project manager on this contract, followed by approximately thirty minutes of questions and answers. Audiovisual aids may be used during the oral interviews. The committee may record the oral interviews.

4. The firms interviewed will then be re-evaluated by the above criteria and adjustments to scoring will be made as appropriate. After evaluation of the proposals, further negotiation with the selected firm may be pursued leading to the award of a contract by City Council, if suitable proposals are received.

The City reserves the right to waive the interview process and evaluate the bidder based on their proposal and pricing schedules alone.

The City will determine whether the final scope of the project to be negotiated will be entirely as described in this RFP, a portion of the scope, or a revised scope.

Work to be done under this contract is generally described through the detailed specifications and must be completed fully in accordance with the contract documents.

Any proposal that does not conform fully to these instructions may be rejected.

PREPARATION OF PROPOSALS

Proposals should have no plastic bindings but will not be rejected as non-responsive for being bound. Staples or binder clips are acceptable. Proposals should be printed double sided on recycled paper.

Each person signing the proposal certifies that they are a person in the bidder's firm/organization responsible for the decisions regarding the fees being offered in the Proposal and has not and will not participate in any action contrary to the terms of this provision.

ADDENDA

If it becomes necessary to revise any part of the RFP, notice of the addendum will be posted to Michigan Inter-governmental Trade Network (MITN) www.mitn.info and/or the City of Ann Arbor web site www.A2gov.org for all parties to download.

Each bidder should acknowledge in its proposal all addenda it has received on the General Declarations form provided in the Attachments section herein. The failure of a bidder to receive or acknowledge receipt of any addenda shall not relieve the bidder of the responsibility for complying with the terms thereof. The City will not be bound by oral responses to inquiries or written responses other than official written addenda.

SECTION IV - ATTACHMENTS

Attachment A – Sample Standard Contract

Attachment B – General Declarations

Attachment C - Legal Status of Bidder

Attachment D – Prevailing Wage Declaration of Compliance Form

Attachment E – Living Wage Declaration of Compliance Form

Attachment F – Living Wage Ordinance Poster

Attachment G – Vendor Conflict of Interest Disclosure Form

Attachment H – Non-Discrimination Ordinance Declaration of Compliance Form

Attachment I – Non-Discrimination Ordinance Poster

Sample Certified Payroll Report Template

ATTACHMENT B GENERAL DECLARATIONS

City of Ann Arbor Guy C. Larcom Municipal Building Ann Arbor, Michigan 48107

Ladies and Gentlemen:

The undersigned, as Bidder, declares that this Bid is made in good faith, without fraud or collusion with any person or persons bidding on the same Contract; that this Bidder has carefully read and examined the bid documents, including City Nondiscrimination requirements and Declaration of Compliance Form, Living Wage requirements and Declaration of Compliance Form, Prevailing Wage requirements and Declaration of Compliance Form, Vendor Conflict of Interest Form, Notice of Pre-Bid Conference, General Information, Bid, Bid Forms, Contract, Bond Forms, General Conditions, Standard Specifications, Detailed Specifications, all Addenda, and the Plans (if applicable) and understands them. The Bidder declares that it conducted a full investigation at the site and of the work proposed and is fully informed as to the nature of the work and the conditions relating to the work's performance. The Bidder also declares that it has extensive experience in successfully completing projects similar to this one.

The Bidder acknowledges that it has not received or relied upon any representations or warrants of any nature whatsoever from the City of Ann Arbor, its agents or employees, and that this Bid is based solely upon the Bidder's own independent business judgment.

The undersigned proposes to perform all work shown on the plans or described in the bid documents, including any addenda issued, and to furnish all necessary machinery, tools, apparatus, and other means of construction to do all the work, furnish all the materials, and complete the work in strict accordance with all terms of the Contract of which this Bid is one part.

In accordance with these bid documents, and Addenda numbered _____, the undersigned, as Bidder, proposes to perform at the sites in and/or around Ann Arbor, Michigan, all the work included herein for the amounts set forth in the Bid Forms.

The Bidder declares that it has become fully familiar with the liquidated damage clauses for completion times and for compliance with City Code Chapter 112, understands and agrees that the liquidated damages are for the non-quantifiable aspects of non-compliance and do not cover actual damages that may be shown and agrees that if awarded the Contract, all liquidated damage clauses form part of the Contract.

The Bidder declares that it has become fully familiar with the provisions of Chapter 14, Section 1:320 (Prevailing wages) and Chapter 23 (Living Wage) of the Code of the City of Ann Arbor and that it understands and agrees to comply, to the extent applicable to employees providing services to the City under this Contract, with the wage and reporting requirements stated in the City Code provisions cited. Bidder certifies that the statements contained in the City Prevailing Wage and Living Wage Declaration of Compliance Forms are true and correct. Bidder further agrees that the cited provisions of Chapter 14 and Chapter 23 form a part of this Contract.

The Bidder declares that it has become familiar with the City Conflict of Interest Disclosure Form and certifies that the statement contained therein is true and correct.

The Bidder encloses a certified check or Bid Bond in the amount of 5% of the total of the Bid Price. The Bidder agrees both to contract for the work and to furnish the necessary Bonds and insurance documentation within 10 days after being notified of the acceptance of the Bid.

If this Bid is accepted by the City and the Bidder fails to contract and furnish the required Bonds and insurance documentation within 10 days after being notified of the acceptance of this Bid, then the Bidder shall be considered to have abandoned the Contract and the certified check or Bid Bond accompanying this Bid shall become due and payable to the City.

If the Bidder enters into the Contract in accordance with this Bid, or if this Bid is rejected, then the accompanying check or Bid Bond shall be returned to the Bidder.

In submitting this Bid, it is understood that the right is reserved by the City to accept any Bid, to reject any or all Bids, to waive irregularities and/or informalities in any Bid, and to make the award in any manner the City believes to be in its best interest.

	SIGNED THIS	DAY OF	, 202
Bidder's Name		Authorized S	ignature of Bidder
Official Address		(Print Name o	of Signer Above)
Telephone Numbe	<u> </u>	Email Addres	s for Award Notice

ATTACHMENT C LEGAL STATUS OF BIDDER

(The bidder shall fill out the appropriate form and strike out the other three.)

Bidder declares that it is:

* A corporation organized and doing business under the laws of	f the State of
, for whom	, bearing the office title
of, whose signature is affixed to this Bid, is	
NOTE: If not incorporated in Michigan, please attach the corpo	oration's Certificate of Authority
A limited liability company doing business under the laws whom bearing the title of whose signature is affixed to this proposal, is authorized to exell. LLC.	<u> </u>
* A partnership, organized under the laws of the state of, whose members are (list all members and t each) (attach separate sheet if necessary):	and filed in the county the street and mailing address of
* An individual, whose signature with address, is affixed to this Authorized Official	(initial here)
Date _	, 202_
(Print) Name Title	
Company:	
Address:	
Contact Phone () Fax ()	

ATTACHMENT D PREVAILING WAGE DECLARATION OF COMPLIANCE

The "wage and employment requirements" of Section 1:320 of Chapter 14 of Title I of the Ann Arbor City Code mandates that the city not enter any contract, understanding or other arrangement for a public improvement for or on behalf of the city unless the contract provides that all craftsmen, mechanics and laborers employed directly on the site in connection with said improvements, including said employees of subcontractors, shall receive the prevailing wage for the corresponding classes of craftsmen, mechanics and laborers, as determined by statistics for the Ann Arbor area compiled by the United States Department of Labor. Where the contract and the Ann Arbor City Code are silent as to definitions of terms required in determining contract compliance with regard to prevailing wages, the definitions provided in the Davis-Bacon Act as amended (40 U.S.C. 278-a to 276-a-7) for the terms shall be used. Further, to the extent that any employees of the contractor providing services under this contract are not part of the class of craftsmen, mechanics and laborers who receive a prevailing wage in conformance with section 1:320 of Chapter 14 of Title I of the Code of the City of Ann Arbor, employees shall be paid a prescribed minimum level of compensation (i.e. Living Wage) for the time those employees perform work on the contract in conformance with section 1:815 of Chapter 23 of Title I of the Code of the City of Ann Arbor.

At the request of the city, any contractor or subcontractor shall provide satisfactory proof of compliance with this provision.

The Contractor agrees:

- (a) To pay each of its employees whose wage level is required to comply with federal, state or local prevailing wage law, for work covered or funded by this contract with the City,
- (b) To require each subcontractor performing work covered or funded by this contract with the City to pay each of its employees the applicable prescribed wage level under the conditions stated in subsection (a) or (b) above.
- (c) To provide to the City payroll records or other documentation within ten (10) business days from the receipt of a request by the City.
- (d) To permit access to work sites to City representatives for the purposes of monitoring compliance, and investigating complaints or non-compliance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services in accordance with the terms of the wage and employment provisions of the Chapter 14 of the Ann Arbor City Code. The undersigned certifies that he/she has read and is familiar with the terms of Section 1:320 of Chapter 14 of the Ann Arbor City Code and by executing this Declaration of Compliance obligates his/her employer and any subcontractor employed by it to perform work on the contract to the wage and employment requirements stated herein. The undersigned further acknowledges and agrees that if it is found to be in violation of the wage and employment requirements of Section 1:320 of the Chapter 14 of the Ann Arbor City Code it shall has be deemed a material breach of the terms of the contract and grounds for termination of same by the City.

Company Name	
Signature of Authorized Representative	Date
Print Name and Title	
Address, City, State, Zip	
Phone/Email address	

Questions about this form? Contact Procurement Office City of Ann Arbor Phone: 734/794-6500

9/25/15 Rev 0 PW

<u>ATTACHMENT E</u> LIVING WAGE ORDINANCE DECLARATION OF COMPLIANCE

The Ann Arbor Living Wage Ordinance (Section 1:811-1:821 of Chapter 23 of Title I of the Code) requires that an employer who is (a) a contractor providing services to or for the City for a value greater than \$10,000 for any twelvemonth contract term, or (b) a recipient of federal, state, or local grant funding administered by the City for a value greater than \$10,000, or (c) a recipient of financial assistance awarded by the City for a value greater than \$10,000, shall pay its employees a prescribed minimum level of compensation (i.e., Living Wage) for the time those employees perform work on the contract or in connection with the grant or financial assistance. The Living Wage must be paid to these employees for the length of the contract/program.

Companies employing fewer than 5 persons and non-profits employing fewer than 10 persons are exempt from compliance with the

Living Wage	Ordinance. If this exemption applies to your company/i	non-profit agency please check here] No. of employees
The Contrac	ctor or Grantee agrees:		
(a)	To pay each of its employees whose wage leprevailing wage law, for work covered or funded Living Wage. The current Living Wage is deemployee health care (as defined in the Ord \$16.52/hour for those employers that do not prothat the Living Wage is adjusted and established and covered employers shall be required to pay Section 1:815(3).	d by a contract with or grant from the fined as \$14.82/hour for those dinance at Section 1:815 Sec. byide health care. The Contractored annually on April 30 in accorda	he City, no less than the employers that provide 1 (a)), or no less than or Grantor understands ance with the Ordinance
	Check the applicable box be	elow which applies to your work	kforce
	Employees who are assigned to any applicable living wage without health be	covered City contract/grant will benefits	e paid at or above the
	Employees who are assigned to any applicable living wage with health bene		e paid at or above the
(b)	To post a notice approved by the City regardin work place or other location in which employees		
(c)	To provide to the City payroll records or othe receipt of a request by the City.	r documentation within ten (10) l	business days from the
(d)	To permit access to work sites to City represe investigating complaints or non-compliance.	entatives for the purposes of mon	itoring compliance, and
(e)	To take no action that would reduce the compe employee covered by the Living Wage Ordinan by the Living Wage Ordinance in order to pay the	ce or any person contracted for e	mployment and covered
has offered Wage Ordin Ordinance,	gned states that he/she has the requisite authorit to provide the services or agrees to accept finan lance. The undersigned certifies that he/she ha obligates the Employer/Grantee to those terms a Ordinance it may be subject to civil penalties and	cial assistance in accordance with is read and is familiar with the te nd acknowledges that if his/her er	n the terms of the Living rms of the Living Wage nployer is found to be in
Company Na	me	Street Address	
Signature of A	Authorized Representative Date	City, State, Zip	
Print Name a	nd Title	Phone/Email address	

Attachment F

CITY OF ANN ARBOR LIVING WAGE ORDINANCE

RATE EFFECTIVE APRIL 30, 2022 - ENDING APRIL 29, 2023

\$14.82 per hour

If the employer provides health care benefits*

\$16.52 per hour

If the employer does **NOT** provide health care benefits*

Employers providing services to or for the City of Ann Arbor or recipients of grants or financial assistance from the City of Ann Arbor for a value of more than \$10,000 in a twelve-month period of time must pay those employees performing work on a City of Ann Arbor contract or grant, the above living wage.

ENFORCEMENT

The City of Ann Arbor may recover back wages either administratively or through court action for the employees that have been underpaid in violation of the law. Persons denied payment of the living wage have the right to bring a civil action for damages in addition to any action taken by the City.

Violation of this Ordinance is punishable by fines of not more than \$500/violation plus costs, with each day being considered a separate violation. Additionally, the City of Ann Arbor has the right to modify, terminate, cancel or suspend a contract in the event of a violation of the Ordinance.

The Law Requires Employers to Display This Poster Where Employees Can Readily See It.

For Additional Information or to File a Complaint contact Colin Spencer at 734/794-6500 or cspencer@a2gov.org

Revised 2/1/2022

^{*} Health Care benefits include those paid for by the employer or making an employer contribution toward the purchase of health care. The employee contribution must not exceed \$.50 an hour for an average work week; and the employer cost or contribution must equal no less than \$1/hr for the average work week.

ATTACHEMENT G



Vendor Conflict of Interest Disclosure Form

All vendors interested in conducting business with the City of Ann Arbor must complete and return the Vendor Conflict of Interest Disclosure Form in order to be eligible to be awarded a contract. Please note that all vendors are subject to comply with the City of Ann Arbor's conflict of interest policies as stated within the certification section below.

If a vendor has a relationship with a City of Ann Arbor official or employee, an immediate family member of a City of Ann Arbor official or employee, the vendor shall disclose the information required below.

- No City official or employee or City employee's immediate family member has an ownership interest in vendor's company or is deriving personal financial gain from this contract.
- 2. No retired or separated City official or employee who has been retired or separated from the City for less than one (1) year has an ownership interest in vendor's Company.
- 3. No City employee is contemporaneously employed or prospectively to be employed with the vendor.
- 4. Vendor hereby declares it has not and will not provide gifts or hospitality of any dollar value or any other gratuities to any City employee or elected official to obtain or maintain a contract.
- 5. Please note any exceptions below:

Conflict of Inte	rest Disclosure*
Name of City of Ann Arbor employees, elected officials or immediate family members with whom	() Relationship to employee
there may be a potential conflict of interest.	() Interest in vendor's company () Other (please describe in box below)
*Disclosing a potential conflict of interest does not disqual	ify vendors. In the event vendors do not disclose potential

conflicts of interest and they are detected by the City, vendor will be exempt from doing business with the City.

I certify that this Conflict of Interest D contents are true and correct to my ki certify on behalf of the Vendor by my s	nowled	ge and	d belief and I have the authority to so
Vendor Name			Vendor Phone Number
Signature of Vendor Authorized Representative	Dat	te	Printed Name of Vendor Authorized Representative

Questions about this form? Contact Procurement Office City of Ann Arbor Phone: 734/794-6500, procurement@a2gov.org

ATTACHMENT H

DECLARATION OF COMPLIANCE

Non-Discrimination Ordinance

The "non discrimination by city contractors" provision of the City of Ann Arbor Non-Discrimination Ordinance (Ann Arbor City Code Chapter 112, Section 9:158) requires all contractors proposing to do business with the City to treat employees in a manner which provides equal employment opportunity and does not discriminate against any of their employees, any City employee working with them, or any applicant for employment on the basis of actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight. It also requires that the contractors include a similar provision in all subcontracts that they execute for City work or programs.

In addition the City Non-Discrimination Ordinance requires that all contractors proposing to do business with the City of Ann Arbor must satisfy the contract compliance administrative policy adopted by the City Administrator. A copy of that policy may be obtained from the Purchasing Manager

The Contractor agrees:

- (a) To comply with the terms of the City of Ann Arbor's Non-Discrimination Ordinance and contract compliance administrative policy, including but not limited to an acceptable affirmative action program if applicable.
- (b) To post the City of Ann Arbor's Non-Discrimination Ordinance Notice in every work place or other location in which employees or other persons are contracted to provide services under a contract with the City.
- (c) To provide documentation within the specified time frame in connection with any workforce verification, compliance review or complaint investigation.
- (d) To permit access to employees and work sites to City representatives for the purposes of monitoring compliance, or investigating complaints of non-compliance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services in accordance with the terms of the Ann Arbor Non-Discrimination Ordinance. The undersigned certifies that he/she has read and is familiar with the terms of the Non-Discrimination Ordinance, obligates the Contractor to those terms and acknowledges that if his/her employer is found to be in violation of Ordinance it may be subject to civil penalties and termination of the awarded contract.

Company Name	
Signature of Authorized Representative	Date
Print Name and Title	
Address, City, State, Zip	
Phone/Email Address	

Questions about the Notice or the City Administrative Policy, Please contact:

Procurement Office of the City of Ann Arbor

(734) 794-6500

2016 Rev 0 NDO-2

<u>ATTACHMENT I</u>

CITY OF ANN ARBOR NON-DISCRIMINATION ORDINANCE

Relevant provisions of Chapter 112, Nondiscrimination, of the Ann Arbor City Code are included below. You can review the entire ordinance at www.a2gov.org/humanrights.

Intent: It is the intent of the city that no individual be denied equal protection of the laws; nor shall any individual be denied the enjoyment of his or her civil or political rights or be discriminated against because of actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight.

<u>Discriminatory Employment Practices:</u> No person shall discriminate in the hire, employment, compensation, work classifications, conditions or terms, promotion or demotion, or termination of employment of any individual. No person shall discriminate in limiting membership, conditions of membership or termination of membership in any labor union or apprenticeship program.

<u>Discriminatory Effects:</u> No person shall adopt, enforce or employ any policy or requirement which has the effect of creating unequal opportunities according to actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight for an individual to obtain housing, employment or public accommodation, except for a bona fide business necessity. Such a necessity does not arise due to a mere inconvenience or because of suspected objection to such a person by neighbors, customers or other persons.

Nondiscrimination by City Contractors: All contractors proposing to do business with the City of Ann Arbor shall satisfy the contract compliance administrative policy adopted by the City Administrator in accordance with the guidelines of this section. All city contractors shall ensure that applicants are employed and that employees are treated during employment in a manner which provides equal employment opportunity and tends to eliminate inequality based upon any classification protected by this chapter. All contractors shall agree not to discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of any applicable protected classification. All contractors shall be required to post a copy of Ann Arbor's Non-Discrimination Ordinance at all work locations where its employees provide services under a contract with the city.

Complaint Procedure: If any individual believes there has been a violation of this chapter. he/she may file a complaint with the City's Human Rights Commission. The complaint must be filed within 180 calendar days from the date of the individual's knowledge of the allegedly discriminatory action or 180 calendar days from the date when the individual should have known of the allegedly discriminatory action. A complaint that is not filed within this timeframe cannot be considered by the Human Rights Commission. To file a first complete the complaint form, which complaint. www.a2gov.org/humanrights. Then submit it to the Human Rights Commission by e-mail (hrc@a2gov.org), by mail (Ann Arbor Human Rights Commission, PO Box 8647, Ann Arbor, MI 48107), or in person (City Clerk's Office). For further information, please call the commission at 734-794-6141 or e-mail the commission at hrc@a2gov.org.

<u>Private Actions For Damages or Injunctive Relief:</u> To the extent allowed by law, an individual who is the victim of discriminatory action in violation of this chapter may bring a civil action for appropriate injunctive relief or damages or both against the person(s) who acted in violation of this chapter.

Michigan Department Of Transportation CP-347 (04/10)

MICHIGAN DEPARTMENT OF TRANSPORTATION CERTIFIED PAYROLL COMPLETION OF CERTIFIED PAYROLLS THE MINIMUM MDOT PREVAILING WAGE REQUIREMENTS

(1) NAME OF CONTRACTOR	(1) NAME OF CONTRACTOR / SUBCONTRACTOR (CIRCLE ONE)	n n	(2) ADDRESS												
(3) PAYROLL NO.	(4) FOR WEEK ENDING		(5) PROJECT AND LOCATION									(6) CONT	(6) CONTRACT ID		
(a)	(q)	<u> </u>	(d) DAY AND DATE	(e)	(1)	(6)	(h) GROSS	0			(I) DEDUCTIONS	SNOI			2
EMPLOYEE INFORMATION	ON WORK CLASSIFICATION	Hour Type	HOURS WORKED ON PROJECT	TOTAL HOURS ON PROJECT	PROJECT RATE OF PAY	PROJECT RATE OF FRINGE PAY	EARNED GROSS WEEKLY EARNED	TOTAL WEEKLY HOURS WORKED ALL JOBS	FICA	FEDERAL	STATE	Į.	T OTHER DI	TOTAL P	TOTAL WEEKLY WAGES PAIDFOR ALL JOBS
NAME:				0			00:0\$							ç	0
ETH/GEN: ID #:	GROUP/CLASS #:	σ		0									7	0.0	90.00
NAME:				0			\$0.00							00 0\$	00 0\$
ETH/GEN: ID#:	GROUP/CLASS #:	σ		0									*	9	9
NAME:				0			\$0.00								
ETHGEN: ID #:	GROUP/CLASS #:	ß		0									0)	\$0.00	\$0.00
NAME:				0			\$0.00								
ETWGEN: ID #:	GROUP/CLASS #:	ø		0									•	\$0.00	\$0.00
NAME:				0			\$0.00								
ETWGEN: ID #:	GROUP/CLASS #:	ø		0									07	\$0.00	\$0.00
NAME:				0	_		\$0.00							00 00	00 00
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NAME:				0			00:0\$;
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NAME:				0			\$0.00						•	9	
ETWGEN: ID #:	GROUP/CLASS #:	ø		0									**	\$0.00 *	\$0.00

MDOT CP-347 (04/10)

MDOT CP-347 (04/10)		Page 2 of 2
Date	(b) WHERE FRINGE BENEFITS ARE PAID IN CASH	v CASH
I, (Name of Signatory Party) (Title) do hereby state:	 Each laborer or mechanic listed in the above reference as indicated on the payroll, an amount not less than the basic hourly wage rate plus the amount of the requirece in the contract, except as noted in section 4(c) below. 	Each laborer or mechanic listed in the above referenced payroll has been paid, as indicated on the payroll, an amount not less than the sum of the applicable basic hourly wage rate plus the amount of the required finge benefits as listed in the contract, except as noted in section 4(c) below.
(1) That I pay or supervise the payment of the persons employed by	(c) EXCEPTIONS	
	EXCEPTION (CRAFT)	EXPLANATION
; that during th		
day of, and ending the day of all persons employed on said project have been paid the full weekly wages earned, that no rebates have been or will be made either directly or indirectly to or on behalf of said		
(Contractor or Subcontractor)		
weekly wages earned by any person and that no deductions have been made either directly or indirectly from the full wance carried by any person of the than order than a calculations.		
3 (29 C.F.R. Subtitle A), issued by the Secretary of Labor under the Copeland Act, as amended (48 Stat. 948, 63 Stat. 108, 72 Stat. 967; 76 Stat. 357; 40 U.S.C. § 3145), and described below:		
	REMARKS:	
(2) That any payrolls otherwise under this contract required to be submitted for the above period are correct and complete; that the wage rates for laborers or mechanics contained therein are not less than the applicable wage rates contained in any wage determination incorporated into the contract; that the classifications set forth therein for each laborer or mechanic conform with the work he performed.		
(3) That any apprentices employed in the above period are duly registered in a bona fide apprenticeship program registered with a State apprenticeship agency recognized by the Bureau of Apprenticeship and Training, United States Department of Labor, or if no such recognized agency exists in a State, are registered with the Bureau of Apprenticeship and Training, United States Department of Labor.		
(4) That: (a) WHERE FRINGE BENEFITS ARE PAID TO APPROVED PLANS, FUNDS, OR PROGRAMS	NAME AND TITLE	SIGNATURE
 in addition to the basic hourly wage rates paid to each laborer or mechanic listed in the above referenced payroll, payments of fringe benefits as listed in the contract have been or will be made to appropriate programs for the benefit of such employees, except as noted in section 4(c) below. 	THE WILLFUL FALSIFICATION OF ANY OF THE ABOV SUBCONTRACTOR TO CIVIL OR CRIMINAL PROSECUTION. 31 OF THE UNITED STATES CODE.	THE WILLFUL FALSFICATION OF ANY OF THE ABOVE STATEMENTS MAY SUBJECT THE CONTRACTOR OR SUBCONTRACTOR TO CIVIL OR CRIMINAL PROSECUTION. SEE SECTION 1001 OF TITLE 18 AND SECTION 231 OF TITLE 31 OF THE UNITED STATES CODE.

ADDENDUM No. 1

RFP No. 22-38

Pavement Marking Maintenance & A2 Vision Zero Quick Build Project – FY 2023

Due Date: June 29, 2022 at 2:00 P.M. (Local Time)

The information contained herein shall take precedence over the original documents and all previous addenda (if any) and is appended thereto. **This Addendum includes fifty-three (53) pages.**

The Proposer is to acknowledge receipt of this Addendum No. 1, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgment of receipt of this addendum may be considered nonconforming.

The following forms provided within the RFP Document should be included in submitted proposal:

- Attachment D Prevailing Wage Declaration of Compliance
- Attachment E Living Wage Declaration of Compliance
- Attachment G Vendor Conflict of Interest Disclosure Form
- Attachment H Non-Discrimination Declaration of Compliance

Proposals that fail to provide these completed forms listed above upon proposal opening may be rejected as non-responsive and may not be considered for award.

I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the RFP document which are outlined below are referenced to a page or Section in which they appear conspicuously. Offerors are to take note in their review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

Section/Page(s) Title Page Page 1	<u>Change</u> Title page; replace with page Addendum-1-4. Revised proposal title from Pavement Marking Maintenance – FY 2023 to Pavement Marking Maintenance & A2 Vision Zero Quick Build Project – FY 2023;
Section III.E Pages 14-16	Schedule of Pricing/Cost Base Bid Forms; replace with pages Addendum-1-5 to 7.
	Added pay items _Pavt Mrkg, Polymer Cement Surface, Tan; _Pavt Mrkg, Polyurea, Bike, Small Sym;Pavt Mrkg, Polyurea, Direction Arrow Sym, Bike; and _Pavt Mrkg, Polyurea, Sharrow Symbol.
	Replaced pay item _Pavt Mrkg, Thermopl, 6 inch with _Pavt Mrkg, Thermopl, 6 inch, Crosswalk.

Section III.E (continued) Pages 14-16	Revised estimated quantities to pay items with correlating (new) line numbers 15, 25, 30, 35, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 115, 120, 125, 135, 140, 155, 180, 200, 225, 235, 245, 250, 255, 260, 265, 270, 285 and 290 due to scope of work revisions related to the addition of A2 Vision Zero Quick Build Project and budget amounts.
Section IV - Attachments Page 21	Attachment A – Sample Standard Contract (page C-2); replace with page Addendum-1-8. Revised Article III – Time of Completion to include Section (D) related to the term of the contract and the option to extend it for one one-year term.
Detailed Specifications Pages 51-54	Replace Detailed Specification for Pavement Marking, Polymer Cement Surface, Bike Lane Green; pages Addendum-1-9 to 12. Revised title to Polymer Cement Surface Pavement Markings, and added specification requirements for pay item _Pavt Mrkg, Polymer Cement Surface, Tan.
Detailed Specifications Pages 55-67	Replace Detailed Specification for Permanent Pavement Markings; pages Addendum-1-13 to 24. Revised pay items listed under the Measurement and Payment section to reflect only those included in the proposed for as part of the contract work.
Appendix Page 68	Replace Appendix title page (APDX-1); page Addendum-1-25. Revised to reference inclusion of Log of Quantities and A2 Vision Zero Quick Build Project Plans.
Appendix	Insert Log of Quantities; pages Addendum-1-26 to 27. Revised to reference inclusion of Log of Quantities and A2 Vision Zero Quick Build Project Plans.
A2 Vision Zero Quick Build Project Plans	Insert the plans sheets listed below; pages Addendum-1-28 to 53
Sheets 1-2	Ann Street Demolition and Proposed Work Plans.
Sheets 3-4	Fuller Street - Glen Avenue Demolition and Proposed Work Plans.
Sheets 5-6	West Liberty Street - West Stadium Boulevard Demolition and Proposed Work Plans.
Sheets 7-12	North Maple Road Demolition and Proposed Work Plans.
Sheets 13-18	Packard Street Demolition and Proposed Work Plans.
Sheets 19-20	South University Avenue – South State Street Demolition and Proposed Work Plans.
Sheets 21-26	Washington Street Demolition and Proposed Work Plans.

II. QUESTIONS AND ANSWERS

No Questions were received by the City.

Offerors are responsible for any conclusions that they may draw from the information contained in the Addendum.

E. Schedule of Pricing/Cost – 20 Points

Company: P.K. CONTRACTING, LLC

Unit Price Bid

No.	No.	Item Description	<u>Unit</u>	Quantity	<u>Unit Price</u>	Total Price
5	1047051	_Certified Payroll Compliance and Reporting	LSUM	1.000	\$ 10,000.00	\$ 10,000.00
10	1507051	_Mobilization, Max. \$7,500.00	LSUM	1.000	\$ 7,500.00	\$ 7,500.00
15	8117001	_Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Ft	2,105.000	\$.95	\$ 1,999.75
20	8117001	_Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	Ft	150.000	\$_1.25	\$ 187.50
25	8117001	_Pavt Mrkg, Polyurea, 12 inch, Cross Hatching, White	Ft	150.000	\$ 5.95	\$ 892.5°
30	8117001	_Pavt Mrkg, Polyurea, 12 inch, Cross Hatching, Yellow	Ft	150.000	\$ 5.95	\$ 892.50
35	8117001	_Pavt Mrkg, Polyurea, 12 inch, Crosswalk	Ft	1,245.000	\$ 5.95	\$ 7,407.75
40	8117001	_Pavt Mrkg, Polyurea, 24 inch, Crosswalk	Ft	50.000	\$ 12.95	\$ 647.50
45	8117001	_Pavt Mrkg, Polyurea, 24 inch, Stop Bar	Ft	425.000	\$ 12.95	\$ 5,503.75
50	8117001	_Pavt Mrkg, Polyurea, 4 inch, White	Ft	12,500.000	\$. 85	\$ 10,625.00
55	8117001	_Pavt Mrkg, Polyurea, 4 inch, Yellow	Ft	41,508.000	\$85	\$ 35,281.80
60	8117001	_Pavt Mrkg, Polyurea, 6 inch, Crosswalk	Ft	150.000	\$ 2.95	\$ 442.50
65	8117001	_Pavt Mrkg, Polyurea, 6 inch, White	Ft	33,123.000	s <u>. 99</u>	\$ 32,791.77
70	8117001	_Pavt Mrkg, Sprayable Thermopl, 4 inch, White	Ft	17,500.000	\$.27	\$ 4,725,00
75	8117001	_Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	87,500.000	\$27	\$ 23,625.00
80	8117001	_Pavt Mrkg, Sprayable Thermopl, 6 inch, White	Ft	35,000.000	\$,37	\$ 12,950.60
85	8117001	_Pavt Mrkg, Thermopl, 12 inch, Cross Hatching, White	Ft	150.000	\$(0.00	\$ 900.00
90	8117001	_Pavt Mrkg, Thermopl, 12 inch, Cross Hatching, Yellow	Ft	250.000	\$(0.00	\$ 1,500.00
95	8117001	_Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	17,500.000	\$6.00	\$ 105,000.00
100	8117001	_Pavt Mrkg, Thermopl, 24 inch, Crosswalk	Ft	4,000.000	\$ 12.00	s 48,000.00
					TOTAL THIS PAGE	\$ 310,872.32

Unit Price Bid

<u>No.</u>	No.	Item Description	<u>Unit</u>	Quantity	Unit Price	Total Price
105	8117001	_Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	5,000.000	\$ <u>12.00</u>	\$ 60,000.00
110	8117001	_Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	12,500.000	\$ 2.7 <u>5</u>	\$ 34,375.00
115	8117001	_Pavt Mrkg, , For On-Street Parking, 4 inch, White	Ft	150.000	\$ 1.95	\$ 292.50
120	8117001	_Recessing Pavement Markings, Longit	Ft	8,500.000	\$.65	\$ 5,525.00
125	8117010	_Pavt Mrkg, Polymer Cement Surface, Bike Lane Green	Sft	15,300.000	\$ 6.95	\$ <u>/06,335.</u> ∞
130	8117010	_Pavt Mrkg, Polymer Cement Surface, Tan	Sft	10,574.000	\$ 6.95	\$ 73,489.30
135	8117010	_Recessing Pavement Markings, Transv	Sft	1,500.000	\$ 4.00	\$ 4,000.00
140	8117010	_Rem Spec Mrkg	Sft	7,744.000	\$ 2.95	\$ 22,844.80
145	8117050	_Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	Ea	10.000	\$ 150.00	\$
150	8117050	_Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike	Ea	10.000	\$ 150.00	\$ 1,500.00
155	8117050	_Pavt Mrkg, Ovly Cold Plastic, Sharrow Symbol	Ea	10.000	\$ 215.00	\$ 2,150,00
160	8117050	_Pavt Mrkg, Ovly Cold Plastic, Speed Hump Chevron, White	Ea	10.000	\$ 375.00	\$ 3,750.00
165	8117050	_Pavt Mrkg, Polyurea, Bike, Small Sym	Ea	40.000	\$ 140.00	\$ 5,600.00
170	8117050	_Pavt Mrkg, Polyurea, Direction Arrow Sym, Bike	Ea	40.000	\$ 140.00	\$ 5,600.00
175	8117050	_Pavt Mrkg, Polyurea, Lt Turn Arrow Sym	Ea	10.000	\$ 180.00	\$ <u>1,800.</u> ∞
180	8117050	_Pavt Mrkg, Polyurea, Only	Ea	10.000	\$ 180.00	\$ (,800.00
185	8117050	_Pavt Mrkg, Polyurea, Railroad Sym	Ea	1.000	\$ 350.00	\$ 350,00
190	8117050	_Pavt Mrkg, Polyurea, Rt and Lt Turn Arrow Sym	Ea	1.000	\$ 200.00	\$ 200.00
195	8117050	_Pavt Mrkg, Polyurea, Rt Turn Arrow Sym	Ea	10.000	\$ 180.00	\$ 1,800.00
200	8117050	_Pavt Mrkg, Polyurea, School	Ea	2.000	\$ 210.00	\$ 420.00
205	8117050	_Pavt Mrkg, Polyurea, Sharrow Symbol	Ea	22.000	\$ 195.00	\$ 4,290.00
					TOTAL THIS PAGE	\$ 339,621.60

Unit Price Bid

<u>No.</u>	No.	Item Description	<u>Unit</u>	Quantity	<u>Unit Price</u>	Total Price
210	8117050	_Pavt Mrkg, Polyurea, Thru and Lt Turn Arrow Sym	Ea	2.000	\$ 200.00	\$ 400.00
215	8117050	_Pavt Mrkg, Polyurea, Thru and Rt Turn Arrow Sym	Ea	2.000	\$ 200.00	\$ 400.00
220	8117050	_Pavt Mrkg, Polyurea, Thru Arrow Sym	Ea	1.000	\$ 170.00	\$ 170.00
225	8117050	_Pavt Mrkg, Preformed Thermoplastic, Accessible Sym	Ea	2.000	\$ 350.00	\$ 700.00
230	8117050	_Pavt Mrkg, Thermopl, Lt Turn Arrow Sym	Ea	100.000	\$_\75,@	\$ 17,500.00
235	8117050	_Pavt Mrkg, Thermopl, Merge	Ea	1.000	\$ 195.00	\$ 195.00
240	8117050	_Pavt Mrkg, Thermopl, Merge Arrow Sym	Ea	2.000	\$ 275.00	\$ 550.00
245	8117050	_Pavt Mrkg, Thermopl, Only	Ea	80.000	\$ 175.00	\$ 14,000.00
250	8117050	_Pavt Mrkg, Thermopl, Railroad Sym	Ea	1.000	\$385.00	\$ 385.00
255	8117050	_Pavt Mrkg, Thermopl, Rt and Lt Turn Arrow Sym	Ea	1.000	\$ 200.60	\$ 200,00
260	8117050	_Pavt Mrkg, Thermopl, Rt Turn Arrow Sym	Ea	20.000	\$_175.∞	\$ 3,500.00
265	8117050	_Pavt Mrkg, Thermopl, School	Ea	10.000	\$ 275.00	\$ -1950.00 NS
270	8117050	_Pavt Mrkg, Thermopl, Speed Hump Chevron, White	Ea	10.000	\$ 350.00	3,500.00 NS \$ -975.00
275	8117050	_Pavt Mrkg, Thermopl, Thru and Lt Turn Arrow Sym	Ea	10.000	\$ 195.00	\$ 1,950.00
280	8117050	_Pavt Mrkg, Thermopl, Thru and Rt Turn Arrow Sym	Ea	5.000	\$ 195.00	\$ 975.00
285	8117050	_Pavt Mrkg, Thermopl, Thru Arrow Sym	Ea	5.000	\$ 150.00	\$ 750.00
290	8117050	_Pavt Mrkg, Thermopl, Yield	Ea	2.000	\$ 195,00	\$ 390.00
					TOTAL THIS PAGE	\$ 48,315,00
					AGE ADDENDUM -1-5	\$ 310,872.32
			9	TOTAL FROM PA	AGE ADDENDUM -1-6	\$ 339,621.60

TOTAL BASE BID \$ 698, 809.92

Document A310[™] - 2010

Conforms with The American Institute of Architects AIA Document 310

Bid Bond

CONTRACTOR:

(Name, legal status and address)
P.K. Contracting, LLC
1965 Barrett Drive
Troy, MI 48084

OWNER:

(Name, legal status and address)
City of Ann Arbor
301East Huron
Ann Arbor, MI 48104

SURETY:

(Name, legal status and principal place of business)
Arch Insurance Company
Harborside 3, 210 Hudson Street, Suite 300
Jersey City, NJ 07311

This document has important legal consequences.
Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

BOND AMOUNT: Five Percent of Total Amount Bid [5% of T.A.B.]

PROJECT:

(Name, location or address, and Project number, if any)

RFP 22-38 Pavement Marking Maintenance - FY 2023 Citywide Road Striping for the city of Ann Arbor, Michigan

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 14th day of June , 2022

P.K. Contracting, LLC (Principal)

(Witness)

Nicholas C. Shea, Vice President

(Title)

Arch Insurance Company

(Surety)

Autumn Stockton, Attorney-In-Fact

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated. Not valid for Note, Loan, Letter of Credit, Currency Rate, Interest Rate or Residential Value Guarantees.

POWER OF ATTORNEY

Know All Persons By These Presents:

That the Arch Insurance Company, a corporation organized and existing under the laws of the State of Missouri, having its principal administrative office in Jersey City, New Jersey (hereinafter referred to as the "Company") does hereby appoint:

Aaron P. Clark, Autumn Stockton, Craig Payne, Dan W. Burton, Florence McClellan, Kristin Darling, Laura Kneitz, Rachel Richardson, Robert F. Bobo, Teresa D. Kelly and Timothy F. Kelly of Houston, TX (EACH)

its true and lawful Attorney(s)in-Fact, to make, execute, seal, and deliver from the date of issuance of this power for and on its behalf as surety, and as its act and deed: Any and all bonds, undertakings, recognizances and other surety obligations, in the penal sum not exceeding Ninety Million Dollars (\$90,000,000.00).

This authority does not permit the same obligation to be split into two or more bonds In order to bring each such bond within the dollar limit of authority as set forth

The execution of such bonds, undertakings, recognizances and other surety obligations in pursuance of these presents shall be as binding upon the said Company as fully and amply to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal administrative office in Jersey City, New Jersey.

This Power of Attorney is executed by authority of resolutions adopted by unanimous consent of the Board of Directors of the Company on December 10, 2020, true and accurate copies of which are hereinafter set forth and are hereby certified to by the undersigned Secretary as being in full force and effect:

"VOTED, That the Chairman of the Board, the President, or the Executive Vice President, or any Senior Vice President, of the Surety Business Division, or their appointees designated in writing and filed with the Secretary, or the Secretary shall have the power and authority to appoint agents and attorneys-in-fact, and to authorize them subject to the limitations set forth in their respective powers of attorney, to execute on behalf of the Company, and attach the seal of the Company thereto, bonds, undertakings, recognizances and other surety obligations obligatory in the nature thereof, and any such officers of the Company may appoint agents for acceptance of process."

This Power of Attorney is signed, sealed and certified by facsimile under and by authority of the following resolution adopted by the unanimous consent of the Board of Directors of the Company on December 10, 2020:

VOTED. That the signature of the Chairman of the Board, the President, or the Executive Vice President, or any Senior Vice President, of the Surety Business Division, or their appointees designated in writing and filed with the Secretary, and the signature of the Secretary, the seal of the Company, and certifications by the Secretary, may be affixed by facsimile on any power of attorney or bond executed pursuant to the resolution adopted by the Board of Directors on December 10, 2020, and any such power so executed, sealed and certified with respect to any bond or undertaking to which it is attached, shall continue to be valid and binding upon the Company. In Testimony Whereof, the Company has caused this instrument to be signed and its corporate seal to be affixed by their authorized officers, this 1st day of Insurance April, 2022.

CORPORATE SEAL 1971

Attested and Certified

STATE OF PENNSYLVANIA SS COUNTY OF PHILADELPHIA SS

I, Michele Tripodi, a Notary Public, do hereby certify that Regan A. Shulman and Stephen C. Ruschak personally known to me to be the same persons whose names are respectively as Secretary and Executive Vice President of the Arch Insurance Company, a Corporation organized and existing under the laws of the State of Missouri, subscribed to the foregoing instrument, appeared before me this day in person and severally acknowledged that they being thereunto duly authorized signed, sealed with the corporate seal and delivered the said instrument as the free and voluntary act of said corporation and as their own free and voluntary acts for the uses and purposes therein set forth.

Missouri

Commonwealth of Pennsylvania - Notary Seal MICHELE TRIPODI, Motory Public Philadelphia County My Commission Expires Ady 31, 2025 Commission Number 1168622

Michele Tupodi, Notary Public My commission expires 07/31/2025

Stephen C. Ruschak, Executive Vice President

Arch Insurance Company

CERTIFICATION

I, Regan A. Shulman, Secretary of the Arch Insurance Company, do hereby certify that the attached Power of Attorney dated April 1, 2022 on behalf of the person(s) as listed above is a true and correct copy and that the same has been in full force and effect since the date thereof and is in full force and effect on the date of this certificate; and I do further certify that the said Stephen C. Ruschak, who executed the Power of Attorney as Executive Vice President, was on the date of execution of the attached Power of Attorney the duly elected Executive Vice President of the Arch Insurance Company

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the Arch Insurance Company on this 14th day of June 20 22 .

This Power of Attorney limits the acts of those named therein to the bonds and undertakings specifically named therein and they have no authority to bind the Company nsurance except in the manner and to the extent herein stated.

PLEASE SEND ALL CLAIM INQUIRIES RELATING TO THIS BOND TO THE FOLLOWING ADDRESS: Arch Insurance - Surety Division 3 Parkway, Suite 1500

Philadelphia, PA 19102

CURPORAT SEAL 1977 Missouri

To verify the authenticity of this Power of Attorney, please contact Arch Insurance Company at SuretyAuthentic@archinsurance.com Please refer to the above named Attorney-in-Fact and the details of the bond to which the power is attached.

Printed in U.S.A. AICPOA040120

ATTACHMENT B GENERAL DECLARATIONS

City of Ann Arbor Guy C. Larcom Municipal Building Ann Arbor, Michigan 48107

Ladies and Gentlemen:

The undersigned, as Bidder, declares that this Bid is made in good faith, without fraud or collusion with any person or persons bidding on the same Contract; that this Bidder has carefully read and examined the bid documents, including City Nondiscrimination requirements and Declaration of Compliance Form, Living Wage requirements and Declaration of Compliance Form, Prevailing Wage requirements and Declaration of Compliance Form, Vendor Conflict of Interest Form, Notice of Pre-Bid Conference, General Information, Bid, Bid Forms, Contract, Bond Forms, General Conditions, Standard Specifications, Detailed Specifications, all Addenda, and the Plans (if applicable) and understands them. The Bidder declares that it conducted a full investigation at the site and of the work proposed and is fully informed as to the nature of the work and the conditions relating to the work's performance. The Bidder also declares that it has extensive experience in successfully completing projects similar to this one.

The Bidder acknowledges that it has not received or relied upon any representations or warrants of any nature whatsoever from the City of Ann Arbor, its agents or employees, and that this Bid is based solely upon the Bidder's own independent business judgment.

The undersigned proposes to perform all work shown on the plans or described in the bid documents, including any addenda issued, and to furnish all necessary machinery, tools, apparatus, and other means of construction to do all the work, furnish all the materials, and complete the work in strict accordance with all terms of the Contract of which this Bid is one part.

In accordance with these bid documents, and Addenda numbered ______, the undersigned, as Bidder, proposes to perform at the sites in and/or around Ann Arbor, Michigan, all the work included herein for the amounts set forth in the Bid Forms.

The Bidder declares that it has become fully familiar with the liquidated damage clauses for completion times and for compliance with City Code Chapter 112, understands and agrees that the liquidated damages are for the non-quantifiable aspects of non-compliance and do not cover actual damages that may be shown and agrees that if awarded the Contract, all liquidated damage clauses form part of the Contract.

The Bidder declares that it has become fully familiar with the provisions of Chapter 14, Section 1:320 (Prevailing wages) and Chapter 23 (Living Wage) of the Code of the City of Ann Arbor and that it understands and agrees to comply, to the extent applicable to employees providing services to the City under this Contract, with the wage and reporting requirements stated in the City Code provisions cited. Bidder certifies that the statements contained in the City Prevailing Wage and Living Wage Declaration of Compliance Forms are true and correct. Bidder further agrees that the cited provisions of Chapter 14 and Chapter 23 form a part of this Contract.

The Bidder declares that it has become familiar with the City Conflict of Interest Disclosure Form and certifies that the statement contained therein is true and correct.

The Bidder encloses a certified check or Bid Bond in the amount of 5% of the total of the Bid Price. The Bidder agrees both to contract for the work and to furnish the necessary Bonds and insurance documentation within 10 days after being notified of the acceptance of the Bid.

If this Bid is accepted by the City and the Bidder fails to contract and furnish the required Bonds and insurance documentation within 10 days after being notified of the acceptance of this Bid, then the Bidder shall be considered to have abandoned the Contract and the certified check or Bid Bond accompanying this Bid shall become due and payable to the City.

If the Bidder enters into the Contract in accordance with this Bid, or if this Bid is rejected, then the accompanying check or Bid Bond shall be returned to the Bidder.

In submitting this Bid, it is understood that the right is reserved by the City to accept any Bid, to reject any or all Bids, to waive irregularities and/or informalities in any Bid, and to make the award in any manner the City believes to be in its best interest.

SIGNED THIS 28 DAY OF JUNE , 2022

P.K. CONTRACTING, UC Bidder's Name

Bidder's Name **1965 Barret**t

TROY , MI 48084

Official Address

248 362 2130

Telephone Number

Authorized Signature of Bidder

Nicholas C. Shea, Vice President

(Print Name of Signer Above)

<u>Nick@ pk contracting. com</u> Email Address for Award Adtice

ATTACHMENT C LEGAL STATUS OF BIDDER

(The bidder shall fill out the appropriate form and strike out the other three.)

Bidder declares that it is:
* A corporation organized and doing business under the laws of the State of
, for whom, bearing the office title
of, whose signature is affixed to this Bid, is authorized to execute contracts
NOTE: If not incorporated in Michigan, please attach the corporation's Certificate of Authority
• A limited liability company doing business under the laws of the State of whom Nicholas C. Stea bearing the title of Nice President whose signature is affixed to this proposal, is authorized to execute contract on behalf of the LLC.
* A partnership, organized under the laws of the state of and filed in the country of, whose members are (list all members and the street and mailing address of each) (attach separate sheet if necessary):
* An individual, whose signature with address, is affixed to this Bid:(initial here)
Authorized Official
glild Free Date JUNE 28, 2022
(Print) Name NICHOLAS C. SHEA Title VILE PRESIDENT
Company: P.K. CONTRACTING, UC
Address: 1965 BARRETT DR TROY, MI 48084
Contact Phone (248) 362 2130 Fax (248) 362 4969
Email Mick & Objection com

ATTACHMENT D PREVAILING WAGE DECLARATION OF COMPLIANCE

The "wage and employment requirements" of Section 1:320 of Chapter 14 of Title I of the Ann Arbor City Code mandates that the city not enter any contract, understanding or other arrangement for a public improvement for or on behalf of the city unless the contract provides that all craftsmen, mechanics and laborers employed directly on the site in connection with said improvements, including said employees of subcontractors, shall receive the prevailing wage for the corresponding classes of craftsmen, mechanics and laborers, as determined by statistics for the Ann Arbor area compiled by the United States Department of Labor. Where the contract and the Ann Arbor City Code are silent as to definitions of terms required in determining contract compliance with regard to prevailing wages, the definitions provided in the Davis-Bacon Act as amended (40 U.S.C. 278-a to 276-a-7) for the terms shall be used. Further, to the extent that any employees of the contractor providing services under this contract are not part of the class of craftsmen, mechanics and laborers who receive a prevailing wage in conformance with section 1:320 of Chapter 14 of Title I of the Code of the City of Ann Arbor, employees shall be paid a prescribed minimum level of compensation (i.e. Living Wage) for the time those employees perform work on the contract in conformance with section 1:815 of Chapter 23 of Title I of the Code of the City of Ann Arbor.

At the request of the city, any contractor or subcontractor shall provide satisfactory proof of compliance with this provision.

The Contractor agrees:

- (a) To pay each of its employees whose wage level is required to comply with federal, state or local prevailing wage law, for work covered or funded by this contract with the City,
- (b) To require each subcontractor performing work covered or funded by this contract with the City to pay each of its employees the applicable prescribed wage level under the conditions stated in subsection (a) or (b) above.
- (c) To provide to the City payroll records or other documentation within ten (10) business days from the receipt of a request by the City.
- (d) To permit access to work sites to City representatives for the purposes of monitoring compliance, and investigating complaints or non-compliance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services in accordance with the terms of the wage and employment provisions of the Chapter 14 of the Ann Arbor City Code. The undersigned certifies that he/she has read and is familiar with the terms of Section 1:320 of Chapter 14 of the Ann Arbor City Code and by executing this Declaration of Compliance obligates his/her employer and any subcontractor employed by it to perform work on the contract to the wage and employment requirements stated herein. The undersigned further acknowledges and agrees that if it is found to be in violation of the wage and employment requirements of Section 1:320 of the Chapter 14 of the Ann Arbor City Code it shall has be deemed a material breach of the terms of the contract and grounds for termination of same by the City.

P.K. CONTRACTING, LLC	
Company Name	-
	0.28.22
Signature of Authorized Representative	Date
Nicholas C. Shea, Vice Preside	nt
Print Name and Title 1965 BARRETT DR TROY, M	I 48084
Address, City, State, Zip 248 362 2130 nide@pkcants	racting. com
Phone/Email address	0

Questions about this form? Contact Procurement Office City of Ann Arbor Phone: 734/794-6500

9/25/15 Rev 0 PW

ATTACHMENT E LIVING WAGE ORDINANCE DECLARATION OF COMPLIANCE

The Ann Arbor Living Wage Ordinance (Section 1:811-1:821 of Chapter 23 of Title I of the Code) requires that an employer who is (a) a contractor providing services to or for the City for a value greater than \$10,000 for any twelvemonth contract term, or (b) a recipient of federal, state, or local grant funding administered by the City for a value greater than \$10,000, or (c) a recipient of financial assistance awarded by the City for a value greater than \$10,000, shall pay its employees a prescribed minimum level of compensation (i.e., Living Wage) for the time those employees perform work on the contract or in connection with the grant or financial assistance. The Living Wage must be paid to these employees for the length of the contract/program.

	nploying fewer than 5 persons and non-profits employing fewer than 10 persons are exempt from compliance with the ordinance. If this exemption applies to your company/non-profit agency please check here [] No. of employees					
The Contrac	tor or Grantee agrees:					
(a)	To pay each of its employees whose wage level is not required to comply with federal, state or local prevailing wage law, for work covered or funded by a contract with or grant from the City, no less than the Living Wage. The current Living Wage is defined as \$14.82/hour for those employers that provide employee health care (as defined in the Ordinance at Section 1:815 Sec. 1 (a)), or no less than \$16.52/hour for those employers that do not provide health care. The Contractor or Grantor understands that the Living Wage is adjusted and established annually on April 30 in accordance with the Ordinance and covered employers shall be required to pay the adjusted amount thereafter to be in compliance with Section 1:815(3).					
	Check the applicable box below which applies to your workforce					
	Employees who are assigned to any covered City contract/grant will be paid at or above the applicable living wage without health benefits					
	[] Employees who are assigned to any covered City contract/grant will be paid at or above the applicable living wage with health benefits					
(b)	To post a notice approved by the City regarding the applicability of the Living Wage Ordinance in every work place or other location in which employees or other persons contracting for employment are working.					
(c)	To provide to the City payroll records or other documentation within ten (10) business days from the receipt of a request by the City.					
(d)	To permit access to work sites to City representatives for the purposes of monitoring compliance, and investigating complaints or non-compliance.					
(e)	To take no action that would reduce the compensation, wages, fringe benefits, or leave available to any employee covered by the Living Wage Ordinance or any person contracted for employment and covered by the Living Wage Ordinance in order to pay the living wage required by the Living Wage Ordinance.					
has offered to Wage Ordina Ordinance, of	gned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and to provide the services or agrees to accept financial assistance in accordance with the terms of the Living ance. The undersigned certifies that he/she has read and is familiar with the terms of the Living Wage obligates the Employer/Grantee to those terms and acknowledges that if his/her employer is found to be in Ordinance it may be subject to civil penalties and termination of the awarded contract or grant of financial					
P.K. Company Nar	CONTRACTING ILC 1965 BARRETT DR Street Address					
Signature of A	hole Come 628.22 TRay MI 48084 City, State, Zip					
1	Nicholas C. Shea, Vice President 248 362 2130 nick@pkcontracting.com					
Print Name ar						

Attachment F

CITY OF ANN ARBOR LIVING WAGE ORDINANCE

RATE EFFECTIVE APRIL 30, 2022 - ENDING APRIL 29, 2023

\$14.82 per hour

If the employer provides health care benefits*

\$16.52 per hour

If the employer does **NOT** provide health care benefits*

Employers providing services to or for the City of Ann Arbor or recipients of grants or financial assistance from the City of Ann Arbor for a value of more than \$10,000 in a twelve-month period of time must pay those employees performing work on a City of Ann Arbor contract or grant, the above living wage.

ENFORCEMENT

The City of Ann Arbor may recover back wages either administratively or through court action for the employees that have been underpaid in violation of the law. Persons denied payment of the living wage have the right to bring a civil action for damages in addition to any action taken by the City.

Violation of this Ordinance is punishable by fines of not more than \$500/violation plus costs, with each day being considered a separate violation. Additionally, the City of Ann Arbor has the right to modify, terminate, cancel or suspend a contract in the event of a violation of the Ordinance.

The Law Requires Employers to Display This Poster Where Employees Can Readily See It.

For Additional Information or to File a Complaint contact Colin Spencer at 734/794-6500 or cspencer@a2gov.org

Revised 2/1/2022

^{*} Health Care benefits include those paid for by the employer or making an employer contribution toward the purchase of health care. The employee contribution must not exceed \$.50 an hour for an average work week; and the employer cost or contribution must equal no less than \$1/hr for the average work week.

ATTACHEMENT G



Vendor Conflict of Interest Disclosure Form

All vendors interested in conducting business with the City of Ann Arbor must complete and return the Vendor Conflict of Interest Disclosure Form in order to be eligible to be awarded a contract. Please note that all vendors are subject to comply with the City of Ann Arbor's conflict of interest policies as stated within the certification section below.

If a vendor has a relationship with a City of Ann Arbor official or employee, an immediate family member of a City of Ann Arbor official or employee, the vendor shall disclose the information required below.

- 1. No City official or employee or City employee's immediate family member has an ownership interest in vendor's company or is deriving personal financial gain from this contract.
- 2. No retired or separated City official or employee who has been retired or separated from the City for less than one (1) year has an ownership interest in vendor's Company.
- 3. No City employee is contemporaneously employed or prospectively to be employed with the vendor.
- 4. Vendor hereby declares it has not and will not provide gifts or hospitality of any dollar value or any other gratuities to any City employee or elected official to obtain or maintain a contract.
- 5. Please note any exceptions below:

Conflict of Inte	erest Disclosure*
Name of City of Ann Arbor employees, elected	() Relationship to employee
officials or immediate family members with whom there may be a potential conflict of interest.	() Interest in vendor's company () Other (please describe in box below)
NA	lify vendors. In the event vendors do not disclose potential

*Disclosing a potential conflict of interest does not disqualify vendors. In the event vendors do not disclose potential conflicts of interest and they are detected by the City, vendor will be exempt from doing business with the City.

I certify that this Conflict of Interest E contents are true and correct to my ki certify on behalf of the Vendor by my s	nowledge a		
P. K. CONTRACTING ILLC Vendor Name		248 302 2130 Vendor Phone Number	
Vendor Name		Vendor Phone Number	
	6.28.27	Nicholas C. Shea, Vice President	
Signature of Vendor Authorized Representative	Date	Printed Name of Vendor Authorized Representative	

 $Questions\ about\ this\ form?\ Contact\ Procurement\ Office\ City\ of\ Ann\ Arbor\ Phone:\ 734/794-6500,\ procurement\ @a2gov.org$

ATTACHMENT H

DECLARATION OF COMPLIANCE

Non-Discrimination Ordinance

The "non discrimination by city contractors" provision of the City of Ann Arbor Non-Discrimination Ordinance (Ann Arbor City Code Chapter 112, Section 9:158) requires all contractors proposing to do business with the City to treat employees in a manner which provides equal employment opportunity and does not discriminate against any of their employees, any City employee working with them, or any applicant for employment on the basis of actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight. It also requires that the contractors include a similar provision in all subcontracts that they execute for City work or programs.

In addition the City Non-Discrimination Ordinance requires that all contractors proposing to do business with the City of Ann Arbor must satisfy the contract compliance administrative policy adopted by the City Administrator. A copy of that policy may be obtained from the Purchasing Manager

The Contractor agrees:

- (a) To comply with the terms of the City of Ann Arbor's Non-Discrimination Ordinance and contract compliance administrative policy, including but not limited to an acceptable affirmative action program if applicable.
- (b) To post the City of Ann Arbor's Non-Discrimination Ordinance Notice in every work place or other location in which employees or other persons are contracted to provide services under a contract with the City.
- (c) To provide documentation within the specified time frame in connection with any workforce verification, compliance review or complaint investigation.
- (d) To permit access to employees and work sites to City representatives for the purposes of monitoring compliance, or investigating complaints of non-compliance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services in accordance with the terms of the Ann Arbor Non-Discrimination Ordinance. The undersigned certifies that he/she has read and is familiar with the terms of the Non-Discrimination Ordinance, obligates the Contractor to those terms and acknowledges that if his/her employer is found to be in violation of Ordinance it may be subject to civil penalties and termination of the awarded contract.

P. K. CONTRACTING, UC

Company Name

Authorized C-Free 6.28.22

Signature of Authorized Representative Date

Nicholas C. Shea, Vice President

Print Name and Title

1965 BARRETT DR TROY, MI

Address, City, State, Zip

248 362 2130 Nick @ pkcontracting. Com Phone/Email Address

Questions about the Notice or the City Administrative Policy, Please contact:

Procurement Office of the City of Ann Arbor

(734) 794-6500

2016 Rev 0 NDO-2

<u>ATTACHMENT I</u>

CITY OF ANN ARBOR NON-DISCRIMINATION ORDINANCE

Relevant provisions of Chapter 112, Nondiscrimination, of the Ann Arbor City Code are included below. You can review the entire ordinance at www.a2gov.org/humanrights.

Intent: It is the intent of the city that no individual be denied equal protection of the laws; nor shall any individual be denied the enjoyment of his or her civil or political rights or be discriminated against because of actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight.

<u>Discriminatory Employment Practices:</u> No person shall discriminate in the hire, employment, compensation, work classifications, conditions or terms, promotion or demotion, or termination of employment of any individual. No person shall discriminate in limiting membership, conditions of membership or termination of membership in any labor union or apprenticeship program.

<u>Discriminatory Effects:</u> No person shall adopt, enforce or employ any policy or requirement which has the effect of creating unequal opportunities according to actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight for an individual to obtain housing, employment or public accommodation, except for a bona fide business necessity. Such a necessity does not arise due to a mere inconvenience or because of suspected objection to such a person by neighbors, customers or other persons.

Nondiscrimination by City Contractors: All contractors proposing to do business with the City of Ann Arbor shall satisfy the contract compliance administrative policy adopted by the City Administrator in accordance with the guidelines of this section. All city contractors shall ensure that applicants are employed and that employees are treated during employment in a manner which provides equal employment opportunity and tends to eliminate inequality based upon any classification protected by this chapter. All contractors shall agree not to discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of any applicable protected classification. All contractors shall be required to post a copy of Ann Arbor's Non-Discrimination Ordinance at all work locations where its employees provide services under a contract with the city.

Complaint Procedure: If any individual believes there has been a violation of this chapter. he/she may file a complaint with the City's Human Rights Commission. The complaint must be filed within 180 calendar days from the date of the individual's knowledge of the allegedly discriminatory action or 180 calendar days from the date when the individual should have known of the allegedly discriminatory action. A complaint that is not filed within this timeframe cannot be considered by the Human Rights Commission. To file a first complete the complaint form, which complaint. www.a2gov.org/humanrights. Then submit it to the Human Rights Commission by e-mail (hrc@a2gov.org), by mail (Ann Arbor Human Rights Commission, PO Box 8647, Ann Arbor, MI 48107), or in person (City Clerk's Office). For further information, please call the commission at 734-794-6141 or e-mail the commission at hrc@a2gov.org.

<u>Private Actions For Damages or Injunctive Relief:</u> To the extent allowed by law, an individual who is the victim of discriminatory action in violation of this chapter may bring a civil action for appropriate injunctive relief or damages or both against the person(s) who acted in violation of this chapter.