



# STATE OF MICHIGAN ENTERPRISE PROCUREMENT

Department of Technology, Management, and Budget  
320 S. Walnut Street 2nd Floor Lansing, MI 48933  
P.O. BOX 30026 LANSING, MICHIGAN 48909

## CONTRACT CHANGE NOTICE

Change Notice Number 1

to

Contract Number MA240000000163

CONTRACTOR	HERC RENTALS INC.
	29125 Smith Rd.
	Romulus MI 48174
	Celeste Littrup (For Orders & Sales Inquiries only)
	231-880-6467
	Celeste.Littrup@hercrentals.com
	CV0002333

STATE	Program Manager	Erin Reincke	MDOT
		5178551986	
		ReinckeE@michigan.gov	
	Contract Administrator	Yvon Dufour	DTMB
		(517) 249-0455	
		dufoury@michigan.gov	

CONTRACT SUMMARY				
Rental for Agricultural, Grounds, Turf, Earth Moving, and Roadside, Maintenance Equipment				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE	
January 16, 2024	January 16, 2029	5 - 12 Months	January 16, 2029	
PAYMENT TERMS		DELIVERY TIMEFRAME		
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
<input type="checkbox"/> P-Card <input type="checkbox"/> Direct Voucher (PRC) <input type="checkbox"/> Other			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
<input type="checkbox"/>		<input type="checkbox"/>		
CURRENT VALUE	VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE		
\$500,000.00	\$0.00	\$500,000.00		
DESCRIPTION				
Please note the vendor contact has been changed to Celeste Littrup for orders and sales inquiries. All other terms, conditions, specifications and pricing remain the same. Per contractor request, and DTMB Procurement approval.				



**STATE OF MICHIGAN PROCUREMENT**  
Department of Technology, Management, and Budget  
320 South Walnut, Lansing, Michigan 48933  
P.O. Box 30026 Lansing, Michigan 48909

**NOTICE OF CONTRACT**

NOTICE OF CONTRACT NO. **240000000163**

between

THE STATE OF MICHIGAN

and

<b>CONTRACTOR</b>	Herc Rentals, Inc.
	29125 Smith Rd.
	Romulus, MI 48174
	Antoine Lloyd
	(313) 268-3635
	Antoine.Lloyd@hercrentals.com
	CV0002333

<b>STATE</b>	Program Manager	Scott Poyer	MDOT
		(517) 284-6448	
		Poyers@michigan.gov	
	Contract Administrator	Yvon Dufour	DTMB
		(517) 249-0455	
		dufoury@michigan.gov	

CONTRACT SUMMARY			
<b>DESCRIPTION:</b> Rental for Agricultural, Grounds, Turf, Earth Moving, and Roadside, Maintenance Equipment			
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW
January 16, 2024	January 16, 2029	5, one year	
PAYMENT TERMS		DELIVERY TIMEFRAME	
45 Days			
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING
<input type="checkbox"/> P-card <input type="checkbox"/> Direct Voucher (DV) <input type="checkbox"/> Other			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
MINIMUM DELIVERY REQUIREMENTS			
F.O.B. Destination			
MISCELLANEOUS INFORMATION			
<b>THIS IS NOT AN ORDER:</b> This Contract Agreement is awarded on the basis of our inquiry bearing the solicitation #230000002854. Orders for delivery will be issued directly by the Department in accordance to Schedule A, section 7.1 Authorizing Document.			
ESTIMATED CONTRACT VALUE AT TIME OF EXECUTION			<b>\$500,000.00</b>

**FOR THE CONTRACTOR:**

Herc Rentals, Inc.  
**Company Name**

\_\_\_\_\_  
**Authorized Agent Signature**

\_\_\_\_\_  
**Authorized Agent** (Print or Type)

\_\_\_\_\_  
**Date**

**FOR THE STATE:**

\_\_\_\_\_  
**Signature**

**Yvon Dufour – Category Specialist**  
**Name & Title**

**DTMB Procurement**  
**Agency**

\_\_\_\_\_  
**Date**

# STANDARD CONTRACT TERMS

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This STANDARD CONTRACT (“**Contract**”) is agreed to between the State of Michigan (the “**State**”) and Herc Rentals (“**Contractor**”), a Delaware Corporation. This Contract is effective on January 16, 2024 (“**Effective Date**”), and unless terminated, expires on January 16, 2029.

This Contract may be renewed for up to five (5) additional one (1) year period(s). Renewal is at the sole discretion of the State and will automatically extend the Term of this Contract. The State will document its exercise of renewal options via Contract Change Notice.

The parties agree as follows:

- 1. Duties of Contractor.** Contractor must perform the services and provide the deliverables (the “**Contract Activities**”) described in a Statement of Work, the initial Statement of Work is attached as Schedule A – Statement of Work. An obligation to provide delivery of any commodity is considered a service and is a Contract Activity.

Contractor must furnish all labor, equipment, materials, and supplies necessary for the performance of the Contract Activities unless otherwise specified in a Statement of Work.

Contractor must: (a) perform the Contract Activities in a timely, professional, safe, and workmanlike manner consistent with standards in the trade, profession, or industry; (b) meet or exceed the performance and operational standards, and specifications of the Contract; (c) provide all Contract Activities in good quality, with no material defects; (d) not interfere with the State’s operations; (e) obtain and maintain all necessary licenses, permits or other authorizations necessary for the performance of the Contract; (f) cooperate with the State, including the State’s quality assurance personnel, and any third party to achieve the objectives of the Contract; (g) return to the State any State-furnished equipment or other resources in the same condition as when provided when no longer required for the Contract; (h) assign to the State any claims resulting from state or federal antitrust violations to the extent that those violations concern materials or services supplied by third parties toward fulfillment of the Contract; (i) comply with all State physical and IT security policies and standards which will be made available upon request; and (j) provide the State priority in performance of the Contract except as mandated by federal disaster response requirements. Any breach under this paragraph is considered a material breach.

Contractor must also be clearly identifiable while on State property by wearing identification issued by the State, and clearly identify themselves whenever making contact with the State.

- 2. Notices.** All notices and other communications required or permitted under this Contract must be in writing and will be considered given and received: (a) when verified by written receipt if sent by courier; (b) when actually received if sent by mail without verification of receipt; or (c) when verified by automated receipt or electronic logs if sent by facsimile or email.

If to State:	If to Contractor:
<b>See Contract Administrator information shown below.</b>	Antoine Lloyd - Government Specialist 29125 Smith Rd. Romulus MI 48174 313-268-3635 <a href="mailto:Antoine.Lloyd@hercrentals.com">Antoine.Lloyd@hercrentals.com</a>

3. **Contract Administrator.** The Contract Administrator, or the individual duly authorized for each party, is the only person authorized to modify any terms of this Contract, and approve and execute any change under this Contract (each a “**Contract Administrator**”):

State:	Contractor:
Yvon Dufour 300-320 South Walnut Street, Elliot Larsen Building, 2 <sup>nd</sup> Floor. Lansing, MI 48933 dufoury@michigan.gov (517) 249-0455	Antoine Lloyd - Government Specialist 29125 Smith Rd. Romulus MI 48174 313-268-3635 <a href="mailto:Antoine.Lloyd@hercrentals.com">Antoine.Lloyd@hercrentals.com</a>

4. **Program Manager.** The Program Manager for each party will monitor and coordinate the day-to-day activities of the Contract (each a “**Program Manager**”):

State:	Contractor:
Scott Poyer Poyers@michigan.gov (517) 284-6448	Antoine Lloyd - Government Specialist 29125 Smith Rd. Romulus MI 48174 313-268-3635 <a href="mailto:Antoine.Lloyd@hercrentals.com">Antoine.Lloyd@hercrentals.com</a>

5. **Performance Guarantee.** Contractor must at all times have financial resources sufficient, in the opinion of the State, to ensure performance of the Contract and must provide proof upon request. The State may require a performance bond (as specified in a Statement of Work) if, in the opinion of the State, it will ensure performance of the Contract.
6. **Insurance Requirements.**  
See Schedule C
7. **Administrative Fee and Reporting** Contractor must pay an administrative fee of **1%** on all payments made to Contractor under the Contract including transactions with the State (including its departments, divisions, agencies, offices, and commissions), MiDEAL members, and other states (including governmental subdivisions and

authorized entities). Administrative fee payments must be made online by check or credit card at: <https://www.thepayplace.com/mi/dtmb/adminfee>

Contractor must submit an itemized purchasing activity report, which includes at a minimum, the name of the purchasing entity and the total dollar volume in sales. Reports should be mailed to MiDeal@michigan.gov.

The administrative fee and purchasing activity report are due within 30 calendar days from the last day of each calendar quarter.

- 8. Extended Purchasing Program.** This contract is extended to MiDEAL members. MiDEAL members include local units of government, school districts, universities, community colleges, and nonprofit hospitals. A current list of MiDEAL members is available at [www.michigan.gov/mideal](http://www.michigan.gov/mideal).

Upon written agreement between the State and Contractor, this contract may also be extended to: (a) other states (including governmental subdivisions and authorized entities).

If extended, Contractor must supply all Contract Activities at the established Contract prices and terms. The State reserves the right to impose an administrative fee and negotiate additional discounts based on any increased volume generated by such extensions.

Contractor must submit invoices to, and receive payment from, extended purchasing program members on a direct and individual basis.

- 9. Relationship of the Parties.** The relationship between the parties is that of independent contractors. Contractor, its employees, and agents will not be considered employees of the State. No partnership or joint venture relationship is created by virtue of this Contract. Contractor, and not the State, is responsible for the payment of wages, benefits and taxes of Contractor's employees and any subcontractors. Prior performance does not modify Contractor's status as an independent contractor. Neither party has authority to contract for nor bind the other party in any manner whatsoever.
- 10. Intellectual Property Rights.** If a Statement of Work requires Contractor to create any intellectual property, Contractor hereby acknowledges that the State is and will be the sole and exclusive owner of all right, title, and interest in the Contract Activities and all associated intellectual property rights, if any. Such Contract Activities are works made for hire as defined in Section 101 of the Copyright Act of 1976. To the extent any Contract Activities and related intellectual property do not qualify as works made for hire under the Copyright Act, Contractor will, and hereby does, immediately on its creation, assign, transfer and otherwise convey to the State, irrevocably and in perpetuity, throughout the universe, all right, title and interest in and to the Contract Activities, including all intellectual property rights therein.
- 11. Subcontracting.** Contractor may not delegate any of its obligations under the Contract without the prior written approval of the State. Contractor must notify the State at least 90 calendar days before the proposed delegation and provide the State any information it requests to determine whether the delegation is in its best interest. If approved, Contractor must: (a) be the sole point of contact regarding all contractual

matters, including payment and charges for all Contract Activities; (b) make all payments to the subcontractor; and (c) incorporate the terms and conditions contained in this Contract in any subcontract with a subcontractor. Contractor remains responsible for the completion of the Contract Activities, compliance with the terms of this Contract, and the acts and omissions of the subcontractor. The State, in its sole discretion, may require the replacement of any subcontractor.

- 12. Staffing.** The State's Contract Administrator may require Contractor to remove or reassign personnel providing services by providing a notice to Contractor.
- 13. Background Checks.** Pursuant to Michigan law, all agencies subject to IRS Pub. 1075 are required to ask the Michigan State Police to perform fingerprint background checks on all employees, including Contractor and Subcontractor employees, who may have access to any database of information maintained by the federal government that contains confidential or personal information, including, but not limited to, federal tax information. Further, pursuant to Michigan law, any agency described above is prohibited from providing Contractors or Subcontractors with the result of such background check. For more information, please see Michigan Public Act 427 of 2018. Upon request, or as may be specified in a Statement of Work, Contractor must perform background checks on all employees and subcontractors and its employees prior to their assignment. The scope is at the discretion of the State and documentation must be provided as requested. Contractor is responsible for all costs associated with the requested background checks. The State, in its sole discretion, may also perform background checks.
- 14. Assignment.** Contractor may not assign this Contract to any other party without the prior approval of the State. Upon notice to Contractor, the State, in its sole discretion, may assign in whole or in part, its rights or responsibilities under this Contract to any other party. If the State determines that a novation of the Contract to a third party is necessary, Contractor will agree to the novation and provide all necessary documentation and signatures.
- 15. Change of Control.** Contractor will notify the State, within 30 days of any public announcement or otherwise once legally permitted to do so, of a change in Contractor's organizational structure or ownership. For purposes of this Contract, a change in control means any of the following: (a) a sale of more than 50% of Contractor's stock; (b) a sale of substantially all of Contractor's assets; (c) a change in a majority of Contractor's board members; (d) consummation of a merger or consolidation of Contractor with any other entity; (e) a change in ownership through a transaction or series of transactions; (f) or the board (or the stockholders) approves a plan of complete liquidation. A change of control does not include any consolidation or merger effected exclusively to change the domicile of Contractor, or any transaction or series of transactions principally for bona fide equity financing purposes.  
  
In the event of a change of control, Contractor must require the successor to assume this Contract and all of its obligations under this Contract.
- 16. Ordering.** Contractor is not authorized to begin performance until receipt of authorization as identified in a Statement of Work.



- 17. Acceptance.** Contract Activities are subject to inspection and testing by the State within 30 calendar days of the State's receipt of them ("**State Review Period**"), unless otherwise provided in a Statement of Work. If the Contract Activities are not fully accepted by the State, the State will notify Contractor by the end of the State Review Period that either: (a) the Contract Activities are accepted but noted deficiencies must be corrected; or (b) the Contract Activities are rejected. If the State finds material deficiencies, it may: (i) reject the Contract Activities without performing any further inspections; (ii) demand performance at no additional cost; or (iii) terminate this Contract in accordance with Section 24, Termination for Cause.

Within 10 business days from the date of Contractor's receipt of notification of acceptance with deficiencies or rejection of any Contract Activities, Contractor must cure, at no additional cost, the deficiency and deliver unequivocally acceptable Contract Activities to the State. If acceptance with deficiencies or rejection of the Contract Activities impacts the content or delivery of other non-completed Contract Activities, the parties' respective Program Managers must determine an agreed to number of days for re-submission that minimizes the overall impact to the Contract. However, nothing herein affects, alters, or relieves Contractor of its obligations to correct deficiencies in accordance with the time response standards set forth in this Contract.

If Contractor is unable or refuses to correct the deficiency within the time response standards set forth in this Contract, the State may cancel the order in whole or in part. The State, or a third party identified by the State, may perform the Contract Activities and recover the difference between the cost to cure and the Contract price plus an additional 10% administrative fee.

- 18. Delivery.** Contractor must deliver all Contract Activities F.O.B. destination, within the State premises with transportation and handling charges paid by Contractor, unless otherwise specified in a Statement of Work. All containers and packaging become the State's exclusive property upon acceptance.
- 19. Risk of Loss and Title.** Until final acceptance, title and risk of loss or damage to Contract Activities remains with Contractor. Contractor is responsible for filing, processing, and collecting all damage claims. The State will record and report to Contractor any evidence of visible damage. If the State rejects the Contract Activities, Contractor must remove them from the premises within 10 calendar days after notification of rejection. The risk of loss of rejected or non-conforming Contract Activities remains with Contractor. Rejected Contract Activities not removed by Contractor within 10 calendar days will be deemed abandoned by Contractor, and the State will have the right to dispose of it as its own property. Contractor must reimburse the State for costs and expenses incurred in storing or effecting removal or disposition of rejected Contract Activities.
- 20. Warranty Period.** The warranty period, if applicable, for Contract Activities is a fixed period commencing on the date specified in a Statement of Work. If the Contract Activities do not function as warranted during the warranty period, the State may return such non-conforming Contract Activities to the Contractor for a full refund.
- 21. Invoices and Payment.** Invoices must conform to the requirements communicated from time-to-time by the State. All undisputed amounts are payable within 45 days of



the State's receipt. Contractor may only charge for Contract Activities provided as specified in a Statement of Work. Invoices must include an itemized statement of all charges. The State is exempt from State sales tax for direct purchases and may be exempt from federal excise tax, if Services purchased under this Agreement are for the State's exclusive use. Notwithstanding the foregoing, all fees are exclusive of taxes, and Contractor is responsible for all sales, use and excise taxes, and any other similar taxes, duties and charges of any kind imposed by any federal, state, or local governmental entity on any amounts payable by the State under this Contract.

The State has the right to withhold payment of any disputed amounts until the parties agree as to the validity of the disputed amount. The State will notify Contractor of any dispute within a reasonable time. Payment by the State will not constitute a waiver of any rights as to Contractor's continuing obligations, including claims for deficiencies or substandard Contract Activities. Contractor's acceptance of final payment by the State constitutes a waiver of all claims by Contractor against the State for payment under this Contract, other than those claims previously filed in writing on a timely basis and still disputed.

The State will only disburse payments under this Contract through Electronic Funds Transfer (EFT). Contractor must register with the State at <http://www.michigan.gov/SIGMAVSS> to receive electronic fund transfer payments. If Contractor does not register, the State is not liable for failure to provide payment. Without prejudice to any other right or remedy it may have, the State reserves the right to set off at any time any amount then due and owing to it by Contractor against any amount payable by the State to Contractor under this Contract.

Excluding federal government charges and terms, Contractor warrants and agrees that each of the fees, economic or product terms or warranties granted pursuant to this Contract are comparable to or better than the equivalent fees, economic or product term or warranty being offered to any commercial or government customer (including any public educational institution within the State of Michigan) of Contractor. If Contractor enters into any arrangements with another customer of Contractor to provide the products or services, available under this Contract, under more favorable prices, as the prices may be indicated on Contractor's current U.S. and International price list or comparable document, then this Contract will be deemed amended as of the date of such other arrangements to incorporate those more favorable prices, and Contractor will immediately notify the State of such fee and formally memorialize the new pricing in a change notice.

- 22. Liquidated Damages.** Liquidated damages, if applicable, will be assessed as described in a Statement of Work. The parties understand and agree that any liquidated damages (which includes but is not limited to applicable credits) set forth in this Contract are reasonable estimates of the State's damages in accordance with applicable law. The parties acknowledge and agree that Contractor could incur liquidated damages for more than 1 event. The assessment of liquidated damages will not constitute a waiver or release of any other remedy the State may have under this Contract for Contractor's breach of this Contract, including without limitation, the State's right to terminate this Contract for cause under Section 24 and the State will be entitled in its discretion to recover actual damages caused by Contractor's failure

to perform its obligations under this Contract. However, the State will reduce such actual damages by the amounts of liquidated damages received for the same events causing the actual damages. Amounts due the State as liquidated damages may be set off against any fees payable to Contractor under this Contract, or the State may bill Contractor as a separate item and Contractor will promptly make payments on such bills.

**23. Stop Work Order.** The State may suspend any or all activities under the Contract at any time. The State will provide Contractor a written stop work order detailing the suspension. Contractor must comply with the stop work order upon receipt. Within 90 calendar days, or any longer period agreed to by Contractor, the State will either: (a) issue a notice authorizing Contractor to resume work, or (b) terminate the Contract or delivery order. The State will not pay for Contract Activities, Contractor's lost profits, or any additional compensation during a stop work period.

**24. Termination for Cause.** (a) The State may terminate this Contract for cause, in whole or in part, if Contractor, as determined by the State: (i) endangers the value, integrity, or security of any facility, data, or personnel; (ii) becomes insolvent, petitions for bankruptcy court proceedings, or has an involuntary bankruptcy proceeding filed against it by any creditor; (iii) engages in any conduct that may expose the State to liability; (iv) breaches any of its material duties or obligations under this Contract; or (v) fails to cure a breach within the time stated by the State in a notice of breach, if in its sole discretion the State has chosen to provide a time to cure. Any reference to specific breaches being material breaches within this Contract will not be construed to mean that other breaches are not material.

(b) If the State terminates this Contract under this Section, the State will issue a termination notice specifying whether Contractor must: (i) cease performance immediately. Contractor must submit all invoices for Contract Activities accepted by the State within 30 days of the date of termination. Failure to submit an invoice within that timeframe will constitute a waiver by Contractor for any amounts due to Contractor for Contract Activities accepted by the State under this Contract or (ii) continue to perform for a specified period. If it is later determined that Contractor was not in breach of the Contract, the termination will be deemed to have been a Termination for Convenience, effective as of the same date, and the rights and obligations of the parties will be limited to those provided in Section 25, Termination for Convenience.

The State will only pay for amounts due to Contractor for Contract Activities accepted by the State on or before the date of termination, subject to the State's right to set off any amounts owed by the Contractor for the State's reasonable costs in terminating this Contract. Contractor must promptly reimburse to the State any fees prepaid by the State prorated to the date of such termination, including any prepaid fees. The Contractor must pay all reasonable costs incurred by the State in terminating this Contract for cause, including administrative costs, attorneys' fees, court costs, transition costs, and any costs the State incurs to procure the Contract Activities from other sources.

**25. Termination for Convenience.** The State may immediately terminate this Contract in whole or in part without penalty and for any reason or no reason, including but not

limited to, appropriation or budget shortfalls. The termination notice will specify whether Contractor must: (a) cease performance of the Contract Activities immediately. Contractor must submit all invoices for Contract Activities accepted by the State within 30 days of the date of termination. Failure to submit an invoice within that timeframe will constitute a waiver by Contractor for any amounts due Contractor for Contract Activities accepted by the State under this Contract, or (b) continue to perform the Contract Activities in accordance with Section 26, Transition Responsibilities. If the State terminates this Contract for convenience, the State will pay all reasonable costs, as determined by the State, for State approved Transition Responsibilities to the extent the funds are available.

26. **Transition Responsibilities.** Upon termination or expiration of this Contract for any reason, Contractor must, for a period of time specified by the State (not to exceed **90** calendar days), provide all reasonable transition assistance requested by the State, to allow for the expired or terminated portion of the Contract Activities to continue without interruption or adverse effect, and to facilitate the orderly transfer of such Contract Activities to the State or its designees. Such transition assistance may include, but is not limited to: (a) continuing to perform the Contract Activities at the established Contract rates; (b) taking all reasonable and necessary measures to transition performance of the work, including all applicable Contract Activities, training, equipment, software, leases, reports and other documentation, to the State or the State's designee; (c) transferring title in and delivering to the State, at the State's discretion, all completed or partially completed deliverables prepared under this Contract as of the Contract termination date; and (d) preparing an accurate accounting from which the State and Contractor may reconcile all outstanding accounts (collectively, "**Transition Responsibilities**"). This Contract will automatically be extended through the end of the transition period.
27. **Return of State Property.** Upon termination or expiration of this Contract for any reason, Contractor must take all necessary and appropriate steps, or such other action as the State may direct, to preserve, maintain, protect, or return to the State all materials, data, property, and confidential information provided directly or indirectly to the Contractor by any entity, agent, vendor, or employee of the State.
28. **Indemnification.** Contractor must defend, indemnify and hold the State, its departments, divisions, agencies, offices, commissions, officers, and employees harmless, without limitation, from and against any and all actions, claims, losses, liabilities, damages, costs, attorney fees, and expenses (including those required to establish the right to indemnification), arising out of or relating to: (a) any breach by Contractor (or any of Contractor's employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable) of any of the promises, agreements, representations, warranties, or insurance requirements contained in this Contract; (b) any infringement, misappropriation, or other violation of any intellectual property right or other right of any third party; (c) any bodily injury, death, or damage to real or tangible personal property occurring wholly or in part due to action or inaction by Contractor (or any of Contractor's employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable); and (d) any acts or omissions of Contractor (or any of Contractor's employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable).

The State will notify Contractor in writing if indemnification is sought; however, failure to do so will not relieve Contractor, except to the extent that Contractor is materially prejudiced. Contractor must, to the satisfaction of the State, demonstrate its financial ability to carry out these obligations.

The State is entitled to: (i) regular updates on proceeding status; (ii) participate in the defense of the proceeding; (iii) employ its own counsel; and to (iv) retain control of the defense, at its own cost and expense, if the State deems necessary. Contractor will not, without the State's prior written consent (not to be unreasonably withheld), settle, compromise, or consent to the entry of any judgment in or otherwise seek to terminate any claim, action, or proceeding.

Any litigation activity on behalf of the State, or any of its subdivisions under this Section, must be coordinated with the Department of Attorney General. An attorney designated to represent the State may not do so until approved by the Michigan Attorney General and appointed as a Special Assistant Attorney General.

The State is constitutionally prohibited from indemnifying Contractor or any third parties.

29. **Infringement Remedies.** If, in either party's opinion, any piece of equipment, software, commodity, or service supplied by Contractor or its subcontractors, or its operation, use or reproduction, is likely to become the subject of a copyright, patent, trademark, or trade secret infringement claim, Contractor must, at its expense: (a) procure for the State the right to continue using the equipment, software, commodity, or service, or if this option is not reasonably available to Contractor, (b) replace or modify the same so that it becomes non-infringing; or (c) accept its return by the State with appropriate credits to the State against Contractor's charges and reimburse the State for any losses or costs incurred as a consequence of the State ceasing its use and returning it.
30. **Limitation of Liability and Disclaimer of Damages. IN NO EVENT WILL THE STATE'S AGGREGATE LIABILITY TO CONTRACTOR UNDER THIS CONTRACT, REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR BY STATUTE OR OTHERWISE, FOR ANY CLAIM RELATED TO OR ARISING UNDER THIS CONTRACT, EXCEED THE MAXIMUM AMOUNT OF FEES PAYABLE UNDER THIS CONTRACT.** The State is not liable for consequential, incidental, indirect, or special damages, regardless of the nature of the action.
31. **Disclosure of Litigation, or Other Proceeding.** Contractor must notify the State within 14 calendar days of receiving notice of any litigation, investigation, arbitration, or other proceeding (collectively, "**Proceeding**") involving Contractor, a subcontractor, or an officer or director of Contractor or subcontractor, that arises during the term of the Contract, including: (a) a criminal Proceeding; (b) a parole or probation Proceeding; (c) a Proceeding under the Sarbanes-Oxley Act; (d) a civil Proceeding involving: (1) a claim that might reasonably be expected to adversely affect Contractor's viability or financial stability; or (2) a governmental or public entity's claim or written allegation of fraud; or (3) any complaint filed in a legal or administrative proceeding alleging the Contractor or its subcontractors discriminated against its employees, subcontractors, vendors, or suppliers during the term of this

Contract; or (e) a Proceeding involving any license that Contractor is required to possess in order to perform under this Contract.

32. **State Data.** All data and information provided to Contractor by or on behalf of the State, and all data and information derived therefrom, is the exclusive property of the State ("**State Data**"); this definition is to be construed as broadly as possible. Upon request, Contractor must provide to the State, or a third party designated by the State, all State Data within 10 calendar days of the request and in the format requested by the State. Contractor will assume all costs incurred in compiling and supplying State Data. No State Data may be used for any marketing or commercial purposes.
33. **Reserved.**
34. **Non-Disclosure of Confidential Information.** The parties acknowledge that each party may be exposed to or acquire communication or data of the other party that is confidential, privileged communication not intended to be disclosed to third parties.
  - a. **Meaning of Confidential Information.** For the purposes of this Contract, the term "**Confidential Information**" means all information and documentation of a party that: (a) has been marked "confidential" or with words of similar meaning, at the time of disclosure by such party; (b) if disclosed orally or not marked "confidential" or with words of similar meaning, was subsequently summarized in writing by the disclosing party and marked "confidential" or with words of similar meaning; or, (c) should reasonably be recognized as confidential information of the disclosing party. The term "Confidential Information" does not include any information or documentation that was or is: (a) subject to disclosure under the Michigan Freedom of Information Act (FOIA); (b) already in the possession of the receiving party without an obligation of confidentiality; (c) developed independently by the receiving party, as demonstrated by the receiving party, without violating the disclosing party's proprietary rights; (d) obtained from a source other than the disclosing party without an obligation of confidentiality; or, (e) publicly available when received, or thereafter became publicly available (other than through any unauthorized disclosure by, through, or on behalf of, the receiving party). For purposes of this Contract, in all cases and for all matters, State Data is deemed to be Confidential Information.
  - b. **Obligation of Confidentiality.** The parties agree to hold all Confidential Information in strict confidence and not to copy, reproduce, sell, transfer, or otherwise dispose of, give or disclose such Confidential Information to third parties other than employees, agents, or subcontractors of a party who have a need to know in connection with this Contract or to use such Confidential Information for any purposes whatsoever other than the performance of this Contract. The parties agree to advise and require their respective employees, agents, and subcontractors of their obligations to keep all Confidential Information confidential. Disclosure to a subcontractor is permissible where: (a) use of a subcontractor is authorized under this Contract; (b) the disclosure is necessary or otherwise naturally occurs in connection with work that is within the subcontractor's responsibilities; and (c) Contractor obligates the subcontractor in a written contract to maintain the State's Confidential Information in confidence. At



the State's request, any employee of Contractor or any subcontractor may be required to execute a separate agreement to be bound by the provisions of this Section.

- c. **Cooperation to Prevent Disclosure of Confidential Information.** Each party must use its best efforts to assist the other party in identifying and preventing any unauthorized use or disclosure of any Confidential Information. Without limiting the foregoing, each party must advise the other party immediately in the event either party learns or has reason to believe that any person who has had access to Confidential Information has violated or intends to violate the terms of this Contract and each party will cooperate with the other party in seeking injunctive or other equitable relief against any such person.
- d. **Remedies for Breach of Obligation of Confidentiality.** Each party acknowledges that breach of its obligation of confidentiality may give rise to irreparable injury to the other party, which damage may be inadequately compensable in the form of monetary damages. Accordingly, a party may seek and obtain injunctive relief against the breach or threatened breach of the foregoing undertakings, in addition to any other legal remedies which may be available, to include, in the case of the State, at the sole election of the State, the immediate termination, without liability to the State, of this Contract or any Statement of Work corresponding to the breach or threatened breach.
- e. **Surrender of Confidential Information upon Termination.** Upon termination of this Contract or a Statement of Work, in whole or in part, each party must, within 5 calendar days from the date of termination, return to the other party any and all Confidential Information received from the other party, or created or received by a party on behalf of the other party, which are in such party's possession, custody, or control; provided, however, that Contractor must return State Data to the State following the timeframe and procedure described further in this Contract. Should Contractor or the State determine that the return of any Confidential Information is not feasible, such party must destroy the Confidential Information and must certify the same in writing within 5 calendar days from the date of termination to the other party. However, the State's legal ability to destroy Contractor data may be restricted by its retention and disposal schedule, in which case Contractor's Confidential Information will be destroyed after the retention period expires.

35. **Reserved.**

36. **Reserved.**

37. **Reserved.**

38. **Records Maintenance, Inspection, Examination, and Audit.** Pursuant to MCL 18.1470, the State or its designee may audit Contractor to verify compliance with this Contract. Contractor must retain and provide to the State or its designee and the auditor general upon request, all records related to the Contract through the term of the Contract and for 4 years after the latter of termination, expiration, or final payment under this Contract or any extension ("**Audit Period**"). If an audit, litigation, or other action involving the records is initiated before the end of the Audit Period, Contractor must retain the records until all issues are resolved.

Within 10 calendar days of providing notice, the State and its authorized representatives or designees have the right to enter and inspect Contractor's premises or any other places where Contract Activities are being performed, and examine, copy, and audit all records related to this Contract. Contractor must cooperate and provide reasonable assistance. If financial errors are revealed, the amount in error must be reflected as a credit or debit on subsequent invoices until the amount is paid or refunded. Any remaining balance at the end of the Contract must be paid or refunded within 45 calendar days.

This Section applies to Contractor, any parent, affiliate, or subsidiary organization of Contractor, and any subcontractor that performs Contract Activities in connection with this Contract.

- 39. Representations and Warranties.** Contractor represents and warrants: (a) Contractor is the owner or licensee of any Contract Activities that it licenses, sells, or develops and Contractor has the rights necessary to convey title, ownership rights, or licensed use; (b) all Contract Activities are delivered free from any security interest, lien, or encumbrance and will continue in that respect; (c) the Contract Activities will not infringe the patent, trademark, copyright, trade secret, or other proprietary rights of any third party; (d) Contractor must assign or otherwise transfer to the State or its designee any manufacturer's warranty for the Contract Activities; (e) the Contract Activities are merchantable and fit for the specific purposes identified in the Contract; (f) the Contract signatory has the authority to enter into this Contract; (g) all information furnished by Contractor in connection with the Contract fairly and accurately represents Contractor's business, properties, finances, and operations as of the dates covered by the information, and Contractor will inform the State of any material adverse changes; (h) all information furnished and representations made in connection with the award of this Contract is true, accurate, and complete, and contains no false statements or omits any fact that would make the information misleading; and that (i) Contractor is neither currently engaged in nor will engage in the boycott of a person based in or doing business with a strategic partner as described in 22 USC 8601 to 8606. A breach of this Section is considered a material breach of this Contract, which entitles the State to terminate this Contract under Section 24, Termination for Cause.
- 40. Conflicts and Ethics.** Contractor will uphold high ethical standards and is prohibited from: (a) holding or acquiring an interest that would conflict with this Contract; (b) doing anything that creates an appearance of impropriety with respect to the award or performance of the Contract; (c) attempting to influence or appearing to influence any State employee by the direct or indirect offer of anything of value; or (d) paying or agreeing to pay any person, other than employees and consultants working for Contractor, any consideration contingent upon the award of the Contract. Contractor must immediately notify the State of any violation or potential violation of these standards. This Section applies to Contractor, any parent, affiliate, or subsidiary organization of Contractor, and any subcontractor that performs Contract Activities in connection with this Contract.
- 41. Compliance with Laws.** Contractor must comply with all federal, state and local laws, rules and regulations.



**42. Reserved.**

**43. Reserved.**

**44. Nondiscrimination.** Under the Elliott-Larsen Civil Rights Act, 1976 PA 453, MCL 37.2101, *et seq.*, the Persons with Disabilities Civil Rights Act, 1976 PA 220, MCL 37.1101, *et seq.*, and [Executive Directive 2019-09](#). Contractor and its subcontractors 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 race, color, religion, national origin, age, sex (as defined in Executive Directive 2019-09), height, weight, marital status, partisan considerations, any mental or physical disability, or genetic information that is unrelated to the person's ability to perform the duties of a particular job or position. Breach of this covenant is a material breach of this Contract.

**45. Unfair Labor Practice.** Under MCL 423.324, the State may void this Contract if the name of the Contractor, or the name of a subcontractor, manufacturer, or supplier of the Contractor, subsequently appears on the Unfair Labor Practice register compiled under MCL 423.322.

**46. Governing Law.** This Contract is governed, construed, and enforced in accordance with Michigan law, excluding choice-of-law principles, and all claims relating to or arising out of this Contract are governed by Michigan law, excluding choice-of-law principles. Any dispute arising from this Contract must be resolved in the Michigan Court of Claims. Contractor waives any objections, such as lack of personal jurisdiction or *forum non conveniens*. Contractor must appoint an agent in Michigan to receive service of process.

**47. Non-Exclusivity.** Nothing contained in this Contract is intended nor is to be construed as creating any requirements contract with Contractor, nor does it provide Contractor with a right of first refusal for any future work. This Contract does not restrict the State or its agencies from acquiring similar, equal, or like Contract Activities from other sources.

**48. Force Majeure.** Neither party will be in breach of this Contract because of any failure arising from any disaster or acts of god that are beyond their control and without their fault or negligence. Each party will use commercially reasonable efforts to resume performance. Contractor will not be relieved of a breach or delay caused by its subcontractors. If immediate performance is necessary to ensure public health and safety, the State may immediately contract with a third party.

**49. Dispute Resolution.** The parties will endeavor to resolve any Contract dispute in accordance with this provision. The dispute will be referred to the parties' respective Contract Administrators or Program Managers. Such referral must include a description of the issues and all supporting documentation. The parties must submit the dispute to a senior executive if unable to resolve the dispute within 15 business days. The parties will continue performing while a dispute is being resolved, unless the dispute precludes performance. A dispute involving payment does not preclude performance.

Litigation to resolve the dispute will not be instituted until after the dispute has been elevated to the parties' senior executive and either concludes that resolution is

unlikely or fails to respond within 15 business days. The parties are not prohibited from instituting formal proceedings: (a) to avoid the expiration of statute of limitations period; (b) to preserve a superior position with respect to creditors; or (c) where a party makes a determination that a temporary restraining order or other injunctive relief is the only adequate remedy. This Section does not limit the State's right to terminate the Contract.

**50. Media Releases.** News releases (including promotional literature and commercial advertisements) pertaining to the Contract or project to which it relates must not be made without the prior written approval of the State, and then only in accordance with the explicit written instructions of the State.

**51. Schedules.** All Schedules and Exhibits that are referenced herein and attached hereto are hereby incorporated by reference. The following Schedules are attached hereto and incorporated herein:

Document Title	Document Description
<b>Schedule A</b>	Statement of Work
<b>Attachment 1 to Schedule A</b>	Dealer Locations
<b>Schedule B1 &amp; B2</b>	Pricing
<b>Schedule C</b>	Insurance Requirements
<b>Schedule D</b>	Specifications
<b>Schedule E</b>	Prosperity Regional Map
<b>Schedule F</b>	Trailer Wiring Diagram

**52. Entire Agreement and Order of Precedence.** This Contract, which includes Statement of Work, and schedules and exhibits, is the entire agreement of the parties related to the Contract Activities. This Contract supersedes and replaces all previous understandings and agreements between the parties for the Contract Activities. If there is a conflict between documents, the order of precedence is: (a) first, this Contract, excluding its schedules, exhibits, and Statement of Work; (b) second, Statement of Work as of the Effective Date; and (c) third, schedules expressly incorporated into this Contract as of the Effective Date. NO TERMS ON CONTRACTOR'S INVOICES, ORDERING DOCUMENTS, WEBSITE, BROWSE-WRAP, SHRINK-WRAP, CLICK-WRAP, CLICK-THROUGH OR OTHER NON-NEGOTIATED TERMS AND CONDITIONS PROVIDED WITH ANY OF THE CONTRACT ACTIVITIES, OR DOCUMENTATION HEREUNDER, EVEN IF ATTACHED TO THE STATE'S DELIVERY OR PURCHASE ORDER, WILL CONSTITUTE A PART OR AMENDMENT OF THIS CONTRACT OR IS BINDING ON THE STATE OR ANY AUTHORIZED USER FOR ANY PURPOSE. ALL SUCH OTHER TERMS AND CONDITIONS HAVE NO FORCE AND EFFECT AND ARE DEEMED REJECTED BY THE STATE AND THE AUTHORIZED USER, EVEN IF

ACCESS TO OR USE OF THE CONTRACT ACTIVITIES REQUIRES AFFIRMATIVE ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

- 53. Severability.** If any part of this Contract is held invalid or unenforceable, by any court of competent jurisdiction, that part will be deemed deleted from this Contract and the severed part will be replaced by agreed upon language that achieves the same or similar objectives. The remaining Contract will continue in full force and effect.
- 54. Waiver.** Failure to enforce any provision of this Contract will not constitute a waiver.
- 55. Survival.** Any right, obligation or condition that, by its express terms or nature and context is intended to survive, will survive the termination or expiration of this Contract; such rights, obligations, or conditions include, but are not limited to, those related to transition responsibilities; indemnification; disclaimer of damages and limitations of liability; State Data; non-disclosure of Confidential Information; representations and warranties; insurance and bankruptcy.
- 56. Contract Modification.** This Contract may not be amended except by signed agreement between the parties (a "**Contract Change Notice**"). Notwithstanding the foregoing, no subsequent Statement of Work or Contract Change Notice executed after the Effective Date will be construed to amend this Contract unless it specifically states its intent to do so and cites the section or sections amended.

Herc Rentals Inc.

# SCHEDULE A – STATEMENT OF WORK CONTRACT ACTIVITIES

Contract No. 240000000163

Agricultural, Grounds, Turf, Earth Moving, and Roadside, Maintenance Equipment

## SCOPE

This solicitation includes the following equipment categories for rental:

1. Agricultural Maintenance
2. Grounds Maintenance
3. Turf Maintenance
4. Earth Moving
5. Roadside Maintenance
6. Equipment Rental
7. Truck upfitting & Seasonal Maintenance Equipment

## REQUIREMENTS

### 1.1 Product Specifications

The Contractor must provide one or more of the following:

Brands or trade names are for identification purposes only and do not limit the Contractor to such brands or trade names.

Specifications are as follows:

1	C03-2001CD-23 Dump Body
2	C03-2001LG-23 Lift Gate
3	C03-2001SP-23 Snow Plow
4	C03-2011CD-23 Dump Body TB FT
5	C03-20CU11-23 Utility Body
6	C03-3001CAP-23 Cap for Pickup
7	C04-SDS-23 Stake Rack Body with Scissor Hydraulic Lift and Cab Protector
8	C05-1601-23 Backhoe
9	C36-0401-4T-23 Asphalt Heater-Hauler
10	C36-Asphalt Recycler-23
11	C38-0101 CTL-23 Skid Steer Track Loader
12	C38-0101-23 Skid Steer Loader
13	C38-0101AWS-23 Skid Steer Loader
14	C38-0501LP-23 Fork Lift, Propane, 6,000 Lbs Capacity
15	C54-0001-23 Concrete Saw
16	C62-0101RB-23 Broom
17	C67-008T-23 Trailer
18	C67-20T LP-23 Trailer
19	C70-0001-23 Welder-Generator
20	C60-2001-16 Sand-Salt Spreader
21	C62-0051-23 Street Sweeper

22	C05-0901-23 Tractor Road Side
23	C05-0902-23 Tractor Road Side
24	C05-1001-23 Tractor Lawn Mower 2 Wheel steer
25	C05-1002-23 Tractor Lawn Mower 4 Wheel Steer 48-54-60 in deck
26	C05-1003-23 Zero Turn 60-72 in deck
27	C06-1001-23 Utility Vehicle 6x4
28	C06-1002-23 Utility Vehicle 4 Wheel Drive
29	C-42-0026-23 Mower, 15 ft Road Side Mechanical Drive Rotary
30	C-62-0101RB-23 Loader, 4 Wheel drive 2.25 Cubic Yard Minimum Capacity
31	38-0201HD.23 Loader, 4 Wheel drive, Articulated, 3.0 Cubic Yard Minimum Capacity
32	05-00051.23 Crawler Dozer (30hp & up)
33	30-00LT23 Light Tower, Trailer Mounted Diesel Engine
34	38-0501D-23 Fork Lift, Diesel Engine, 8,000 Lbs Capacity
35	C56-051.23 Sewer and Catch Basin Cleaner Unit
36	C42-0027.23 Mower, 15 ft Road Side Hydraulic Drive Rotary
37	C10-010DD.22 Digger Derrick, with platform Body and FG through Box Light Tower
38	C10-034AT.22 Aerial Tower, 34 Foot Working Height and Utility Body
39	C10-045AT.22 Aerial Tower, 45 Foot Working Height and Utility Body

## A. EQUIPMENT FOR RENTAL

### 2.1 Specifications

- a) The Contractor shall provide equipment for rental that is similar in scope to equipment included in **Schedule D, Specifications**.
- b) Brand or trade names referred to herein are for identification purposes only, and do not limit the Contractor to such brands, provided alternates offered are equal in quality and function to those specified.
- c) In addition, the Contractor shall provide a complete list of equipment available for rental by category (e.g. loaders, dozers, sweepers, etc.) in **Schedule B – Pricing, Catalog Pricing for Rental**.

The list shall include:

- i. Daily, weekly, and monthly rental rates.
- ii. Percentage discount offered by category for such rates.
- iii. Only listed items that meet these requirements shall be included under this contract.

The Contractor must provide deliverables, including the staffing to accomplish all service incidentals necessary to complete the work, as set forth in this solicitation.

- a) The Contractor must provide make and model of all equipment offered for rental. Brand or trade names provided by the Contractor are for identification purposes, and do not limit the Contractor to such brands, provided alternates offered are equal in quality and function to those specified.
- b) All rental equipment is to meet or exceed applicable federal and state safety standards as mandated by OSHA, and MIOSHA Motor Carrier Division. This equipment is to meet or exceed applicable American National Standards Institute (ANSI) specifications. The Contractor will provide written documentation guaranteeing compliance with all safety standards.
- c) The Contractor shall provide written documentation confirming satisfactory testing on equipment where mandated by law (to include but not limited to: stress testing, dielectric testing, visual inspections) completed by a licensed and reputable testing firm.
- d) Rental equipment shall be no more than four (4) years old.

## **2.2 Availability and Delivery of Equipment**

- a) All requested orders must be delivered within two (2) calendar days/48 hours after receipt of order.
- b) Emergencies will be responded to within one (1) to six (6) hours. Equipment shall be available as both F.O.B. delivered and F.O.B. pick-up.
- c) No premium rates will be charged for delivery after normal business hours.
- d) Rental equipment items shall be fully fueled and operational at the time of pick-up or delivery.
- e) The Contractor will be required to perform a walk-around equipment inspection at the time of delivery and pickup.
- f) The Contractor (or their designee) and the Program Manager (or their designee) shall document the inspection by mutual execution of an inspection document provided by the Contractor.
- g) The Purchasing Entity is responsible for refueling all rented equipment upon its return.

## **2.3 Maintenance/Service**

- a) The Contractor will be responsible for all maintenance/service necessary to maintain satisfactory operation of rental equipment at no cost to the Purchasing Entity.
- b) Equipment shall be serviced according to manufacturer specifications. The Contractor shall maintain an equipment schedule for service and retain complete lifetime service records for all equipment.
- c) If a repair is needed and requires the piece of equipment to be out of service, the Contractor shall provide a replacement.
- d) Contractor will maintain a Dedicated Product Support Department to ensure proper function of rented equipment.
- e) On-site maintenance must be performed according to the recommended manufacturer maintenance schedule.

## **2.4 Training**

The Contractor must provide the following training:

An orientation training shall be provided upon request at the time of delivery. The training shall be deemed sufficient by the Purchasing Entity, to include detailed equipment operation and minor maintenance and inspection practices.

## **B. GENERAL REQUIREMENTS**

### **3.1 Incentives**

Not available

### **3.2 Transition**

**Post-Contract Transition:** Invoices must be sent within 45 days after expiration of contract. Any invoices received after 45 days will result in a non-payment of invoice.

### **4.1 Technical Support and Repairs**

When providing technical support, the Call Center must resolve the caller's issue within 30 minutes. If the caller's issue cannot be resolved within 2 hours, on-site service must be scheduled. The on-site service must be performed within 36 hours of the time the issue was scheduled for service.

### **4.2 Reporting**

The Contractor must submit to the Contract Administrator or their designee, the following written reports:

- a) *Maintenance/service report*
- b) *Regional rental report*
- c) *Regional purchase report*

By the second Friday of every December, the Contractor must submit a report of recycled content in commodities sold in that calendar year to **the Contract Administrator or their Designee, DTMB Procurement**.

### **4.3 Meetings**

The Contractor must attend the following meetings:

- a) Kick-off meeting within 30 calendar days of the Effective Date.
- b) The State may request other meetings as it deems appropriate.

## **5 Staffing**

### **5.1 Contractor Representative**

The Contractor must appoint Product Representative specifically assigned to State of Michigan accounts who will respond to State inquiries regarding the Contract Activities, answer questions related to ordering and delivery, etc. (the "Contractor Representative").

The Contractor must notify the Contract Administrator at least 30 calendar days before removing or assigning a new Contractor Representative.

### **5.2 Key Personnel**

The Contractor must appoint one individual who will be directly responsible for the day-to-day operations of the Contract ("Key Personnel"). Key Personnel must be specifically assigned to the State account, be knowledgeable on the contractual requirements, and respond to State inquiries within 24 hours.



Contractor's Key Personnel must be available during the following times: 8 am to 5 pm Eastern, Monday through Friday, at a minimum.

The Contractor may not remove or assign Key Personnel without the prior consent of the State. Prior consent is not required for reassignment for reasons beyond the Contractor's control, including illness, disability, death, leave of absence, personal emergency circumstances, resignation, or termination for cause. The State may request a résumé and conduct an interview before approving a change. The State may require a 30-calendar day training period for replacement personnel.

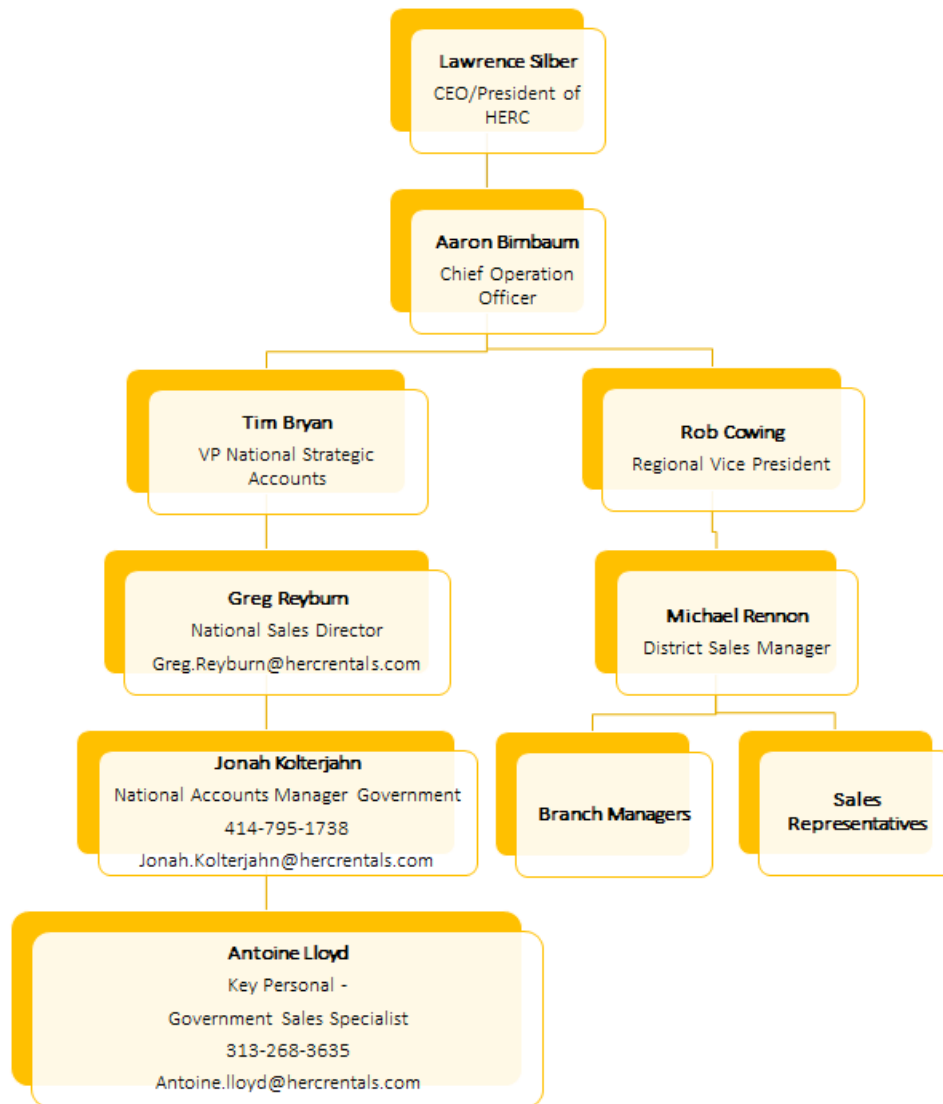
The Contractor must identify the Key Personnel, indicate where they will be physically located, describe the functions they will perform, and provide current chronological résumés.

**Key Personnel:**  
**Antoine Lloyd**  
**Government Specialist**  
**29125 Smith Rd.**  
**Romulus MI 48174**  
**313-268-3635**  
[Antoine.Lloyd@hercrentals.com](mailto:Antoine.Lloyd@hercrentals.com)

### **5.3 Non-Key Personnel**

The Contractor must notify the Contract Administrator at least 10-calendar days before removing or assigning non-key personnel.

## 5.4 Organizational Chart



## 5.5 Customer Service Toll-Free Number

The Contractor must specify its toll-free number for the State to contact the Contractor Representative who must be available for calls during the hours of 8 am to 5 pm Eastern Monday through Friday, at a minimum. Identify customer service availability for this proposal by hours and days of the week.

**Direct (cell number): (313) 268-3635**

**24 hours per day / 7 days a week / 365 days per year**

## 5.6 Technical Support, Repairs and Maintenance

The Contractor must specify its toll-free number for the State to contact the Contractor for technical support, repairs and maintenance. The Contractor must be available for calls and service during the hours of 8 am to 5 pm Eastern Monday through Friday, at a minimum. Identify availability for this proposal by hours and days of the week.

**Direct (cell number): (313) 268-3635**

**24 hours per day / 7 days a week / 365 days per year**

## 5.7 Disclosure of Subcontractors

If the Contractor intends to utilize subcontractors, the Contractor must disclose the following:

- The legal business name; address; telephone number; a description of subcontractor's organization and the services it will provide; and information concerning subcontractor's ability to provide the Contract Activities.
- The relationship of the subcontractor to the Contractor. Of the total bid, the price of the subcontractor's work. Whether the Contractor has a previous working experience with the subcontractor. If yes, provide the details of that previous relationship.
- A complete description of the Contract Activities that will be performed or provided by the subcontractor.
- **Geographically Disadvantaged Business Enterprise Sub-Contractors:** If contractors plan to utilize subcontractors to perform more than 20% of the deliverables under this contract, at least 20% of that subcontracted work must be awarded to Michigan-based Geographically Disadvantaged Business Enterprises (GDBE). Contractor will submit a plan detailing all subcontractors to be used, including the percentage of the work to be done by each. Contractor must inform the State to the name and address of the GDBE, the percentage of the work they will complete, the total amount estimated to be paid to the GDBE, and provide evidence for their qualifications as a GDBE. If contractor cannot find GDBE subcontractors to meet this requirement they must provide reasoning and justification to receive an exemption from this requirement from the State. (Existing business relationships will not be an approved reason for this.)

**GDBE definition:** "Geographically-Disadvantaged Business Enterprise" means a person or entity that satisfies one or more of the following: (i) Is certified as a HUBZone Small Business Concern by the United States Small Business Administration. (ii) Has a principal place of business located within a Qualified Opportunity Zone within Michigan. (iii) More than half of its employees have a principal residence located within a Qualified Opportunity Zone within Michigan, or both.

**Additional information on GDBEs can be found here:**

[Michigan Qualified Opportunity Zone \(QOZ\) Map](#)

[Michigan Supplier Community \(MiSC\) Page](#)

**Contractor must provide detailed information as requested in the above requirement(s).**

**The legal business name, address, telephone number of the subcontractor(s).**

**A description of subcontractor's organization and the services it will**

Contractor must provide detailed information as requested in the above requirement(s).	
provide and information concerning subcontractor's ability to provide the Contract Activities.	
The relationship of the subcontractor to the Contractor.	
Is the subcontractor a GDBE?	Choose an item.
Whether the Contractor has a previous working experience with the subcontractor. If yes, provide the details of that previous relationship.	
A complete description of the Contract Activities that will be performed or provided by the subcontractor.	
Of the total bid, the price of the subcontractor's work.	

Contractor must provide information based on the work performed by all subcontractors	
Total percentage of work that will be performed by subcontractors:	
Total percentage of subcontracted work that will be performed by GDBE subcontractors:	

## 5.8 Security

The Contractor will be subject the following security procedures:

- Contractor is willing to comply with any State requirements.
- The Contractor's staff may be required to make deliveries to or enter State facilities. The State may require the Contractor's personnel to wear State issued identification badges.

## 6 Pricing

### 6.1 Price Term

Pricing is firm for a 365-day period ("Pricing Period"). The first pricing period begins on the Effective Date. Adjustments may be requested in writing by either party and will take effect no earlier than the next Pricing Period.

## **6.2 Price Changes**

Adjustments will be based on changes in actual Contractor costs. Any request must be supported by written evidence documenting the change in costs. The State may consider sources, such as the Consumer Price Index; Producer Price Index; other pricing indices as needed; economic and industry data; manufacturer or supplier letters noting the increase in pricing; and any other data the State deems relevant.

Following the presentation of supporting documentation, both parties will have 30 days to review the information and prepare a written response. If the review reveals no need for modifications, pricing will remain unchanged unless mutually agreed to by the parties. If the review reveals that changes are needed, both parties will negotiate such changes, for no longer than 30 days, unless extended by mutual agreement.

The Contractor remains responsible for Contract Activities at the current price for all orders received before the mutual execution of a Change Notice indicating the start date of the new Pricing Period.

## **7 Ordering**

### **7.1 Authorizing Document**

The appropriate authorizing document for the Contract will be a purchase order or delivery order.

### **7.2 Order Verification**

The Contractor must have internal controls approved by Central Procurement Services to verify abnormal orders and to ensure that only authorized individuals place orders.

## **8 Acceptance**

### **8.1 Acceptance, Inspection and Testing**

The State will use the following criteria to determine acceptance of the Contract Activities:

- a) Equipment shall be delivered in new condition. Damaged equipment will not be accepted. The Contractor will repair or replace the damaged equipment at the Contractor's expense.
- b) The Contractor shall provide documentation upon delivery that provides itemized deliverables.
- c) Acceptance is not complete for partial deliveries until final deliverables are received.

### **8.2 Final Acceptance**

- a) The Contractor shall deliver the equipment. The State, or their designee, shall inspect the equipment and approve acceptance of goods upon delivery.
- b) All set-up and/or training and orientation shall be completed.

## **9 Invoice and Payment**

### **9.1 Invoice Requirements**

All invoices submitted to the State must include: (a) date; (b) purchase order; (c) quantity; (d) itemized description of the Contract Activities; (e) unit price; (f) shipping cost (if any); (g) vendor-generated invoice number; and (h) total price.

### **9.2 Payment Methods**

The State will make payment for Contract Activities by EFT.

## **10 Liquidated Damages**

Late or improper completion of the Contract Activities will cause loss and damage to the State, and it would be impracticable and extremely difficult to fix the actual damage sustained by the State. Therefore, if there is late or improper completion of the Contract Activities the State is entitled to collect liquidated damages in the amount of \$5,000. and an additional \$100 per day for each day Contractor fails to remedy the late or improper completion of the Work.

Unauthorized Removal of Key Personnel will interfere with the timely and proper completion of the Contract, to the loss and damage of the State, and it would be impracticable and extremely difficult to fix the actual damage sustained by the State. Therefore, the State may assess liquidated damages against Contractor as specified below.

- The State is entitled to collect \$500. per individual per day for the removal of any Key Personnel without prior approval of the State.
- The State is entitled to collect \$500. per individual per day for an unapproved or untrained key personnel replacement.

## **11 Additional Requirements**

### **11.1 Environmental and Energy Efficiency Product Standards**

The Contractor must identify any energy efficient, bio-based, or otherwise environmentally friendly products used in the products. Contractor must include any relevant third-party certification, including the verification of a United States Department of Agriculture certified bio-based product label. Contractor must describe how products that meet these requirements are identified or otherwise labelled.

### **11.2 Hazardous Chemical Identification**

In accordance with the federal Emergency Planning and Community Right-to-Know Act, 42 USC 11001, *et seq.*, as amended, the Contractor must provide a Material Safety Data Sheet listing any hazardous chemicals as defined in 40 CFR §370.2, to be delivered. Each hazardous chemical must be properly identified, including any applicable identification number, such as a National Stock Number or Special Item Number.

The Contractor must identify any hazardous chemicals that will be provided under any resulting contract.

### **11.3 Mercury Content**

Pursuant to MCL 18.1261d, mercury-free products must be procured when possible. The Contractor must explain if it intends to provide products containing mercury, the amount or concentration of mercury, and whether cost competitive alternatives exist. If a cost competitive alternative does exist, the Contractor must provide justification as to why the particular product is essential. All products containing mercury must be labeled as containing mercury.

### **11.4 Brominated Flame Retardants**

The State prefers to purchase products that do not contain brominated flame retardants (BFRs) whenever possible. The Contractor must disclose whether the products contain BFRs. Contractor must describe how products that meet these requirements are identified or otherwise labelled.

### **11.5 Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)**

The Contractor must confirm that the provided products do not intentionally contain PFAS. This consists of all components of the provided products, including product packaging.

## **12 Service-Level Agreements (SLAs)**

- A.** The Contractor will be held accountable to meet the requirements and the service level requirements established in this Contract.
- B.** The State reserves the right to reconsider or amend SLA amounts for split awards should they occur.

**Service Level Agreements for this Contract will be as follows:**

<b>SLA Metric 1. Timely Deliveries</b>	
<b>Definition and Purpose</b>	<p>The Contractor must ensure that items and quantities delivered are exactly the items, brands, and quantities on the Order Confirmation. No substitutions will be allowed without prior written permission by Program Manager and a Change Notice executed by the Contract Administrator.</p> <p>The entire order will be received on the same day unless a partial delivery has been approved in advance by the Program Manager.</p>
<b>Acceptable Standard</b>	<ol style="list-style-type: none"> <li>1. All deliveries must occur in accordance with the approved delivery schedule for each Facility and Facility Receiving hours. See Section 2.4 Delivery.</li> <li>2. Extenuating circumstances must be communicated by the Contractor to the Program Manager prior to the scheduled delivery date and time.</li> <li>3. Items, brands, and quantities delivered will match the Order Confirmation exactly.</li> <li>4. Signed and dated packing slips will be provided to purchasing agency at the time of delivery.</li> <li>5. The entire order must be delivered on the same day unless a partial delivery has been approved in advance by the Program Manager.</li> <li>6. Orders not received in their entirety, as determined by a review of the Data Sources, will be considered inaccurate.</li> </ol> <p>The acceptable standard is 100% compliance.</p>
<b>Credit Due for Failing to Meet the Service Level Agreements</b>	<ol style="list-style-type: none"> <li>1. \$100.00 may be assessed for each of the first five occurrences of non-compliance in a given calendar year.</li> <li>2. \$500.00 may be assessed beginning with the sixth occurrence of non-compliance and on each occurrence thereafter in a given calendar year.</li> </ol> <p>Extenuating circumstances will be reviewed by the Program Manager before any Service Credits are assessed.</p> <p>At the discretion of the State, these credits may be applied toward any payable due to the Contractor or be payable directly to the State. Payments made directly to the state will be completed within 10 days of notice of assessment.</p>



**Attachment 1 to Schedule A - Dealer Locations**

**HERC DEALER LOCATIONS**

Romulus	29125 Smith Rd.	Romulus MI 48174	734-595-7075
Erie	633 S. Dixie Hwy	Erie, MI	734-848-3092
Pontiac	9130 959 Cesar E. Chavez Ave.	Pontiac, MI	248-648-6888
Norton Shores	7175 Enterprise Drive	Norton Shores, MI	231-739-9525
Oak Park	13133 Cloverdale St.	Oak Park, MI	248-399-6600

## Placeholder for Schedule B – Pricing

Please follow this link for  
Schedule B – Pricing:

<https://www.michigan.gov/dtmb/-/media/Project/Websites/dtmb/Procurement/Contracts/MiDEAL-Media/Equipment-Contracts-and-Sch-B/240000000163---Schedule-B-Pricing.pdf>

Herc Rentals

## **SCHEDULE C - INSURANCE REQUIREMENTS**

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### **Request For Proposal No. 230000002854**

Agricultural, Grounds, Turf, Earth Moving, and Roadside, Maintenance Equipment

- 1. General Requirements.** Contractor, at its sole expense, must maintain the insurance coverage as specified herein for the duration of the Term. Minimum limits may be satisfied by any combination of primary liability, umbrella or excess liability, and self-insurance coverage. To the extent damages are covered by any required insurance, Contractor waives all rights against the State for such damages. Failure to maintain required insurance does not limit this waiver.
- 2. Qualification of Insurers.** Except for self-insured coverage, all policies must be written by an insurer with an A.M. Best rating of A- VII or higher unless otherwise approved by DTMB Enterprise Risk Management.
- 3. Primary and Non-Contributory Coverage.** All policies for which the State of Michigan is required to be named as an additional insured must be on a primary and non-contributory basis.
- 4. Claims-Made Coverage.** If any required policies provide claims-made coverage, Contractor must:
  - a. Maintain coverage and provide evidence of coverage for at least 3 years after the later of the expiration or termination of the Contract or the completion of all its duties under the Contract;
  - b. Purchase extended reporting coverage for a minimum of 3 years after completion of work if coverage is cancelled or not renewed, and not replaced with another claims-made policy form with a retroactive date prior to the Effective Date of this Contract.
- 5. Proof of Insurance.**
  - a. Insurance certificates showing evidence of coverage as required herein must be submitted to [DTMB-RiskManagement@michigan.gov](mailto:DTMB-RiskManagement@michigan.gov) within 10 days of the contract execution date.
  - b. Renewal insurance certificates must be provided on annual basis or as otherwise commensurate with the effective dates of coverage for any insurance required herein.
  - c. Insurance certificates must be in the form of a standard ACORD Insurance Certificate unless otherwise approved by DTMB Enterprise Risk Management.
  - d. All insurance certificates must clearly identify the Contract Number (e.g., notated under the Description of Operations on an ACORD form).

- e. The State may require additional proofs of insurance or solvency, including but not limited to policy declarations, policy endorsements, policy schedules, self-insured certification/authorization, and balance sheets.
  - f. In the event any required coverage is cancelled or not renewed, Contractor must provide written notice to DTMB Enterprise Risk Management no later than 5 business days following such cancellation or nonrenewal.
- 6. Subcontractors.** Contractor is responsible for ensuring its subcontractors carry and maintain insurance coverage.

**7. Limits of Coverage & Specific Endorsements.**

Required Limits	Additional Requirements
<b>Commercial General Liability Insurance</b>	
<b>Minimum Limits:</b> \$1,000,000 Each Occurrence \$1,000,000 Personal & Advertising Injury \$2,000,000 Products/Completed Operations \$2,000,000 General Aggregate	Contractor must have their policy endorsed to add "the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees, and agents" as additional insureds using endorsement CG 20 10 11 85, or both CG 20 10 12 19 and CG 20 37 12 19.
<b>Umbrella or Excess Liability Insurance</b>	
<b>Minimum Limits:</b> \$5,000,000 General Aggregate	Contractor must have their policy follow form.
<b>Automobile Liability Insurance</b>	
<b>Minimum Limits:</b> \$1,000,000 Per Accident	Contractor must have their policy: (1) endorsed to add "the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees, and agents" as additional insureds; and (2) include Hired and Non-Owned Automobile coverage.

Required Limits	Additional Requirements
<b>Workers' Compensation Insurance</b>	
<b>Minimum Limits:</b> Coverage according to applicable laws governing work activities.	Waiver of subrogation, except where waiver is prohibited by law.
<b>Employers Liability Insurance</b>	
<b>Minimum Limits:</b> \$500,000 Each Accident \$500,000 Each Employee by Disease \$500,000 Aggregate Disease	
<b>Garagekeepers Liability Insurance</b>	
<u>Minimal Limits:</u> \$100,000 Per Occurrence	Contractor must have their policy: (1) endorsed to add "the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees, and agents" as additional insureds; and (2) include Garage Keepers Legal Liability coverage.

- 8. Non-Waiver.** This Schedule C is not intended to and is not to be construed in any manner as waiving, restricting or limiting the liability of either party for any obligations under this Contract, including any provisions hereof requiring Contractor to indemnify, defend and hold harmless the State.

**State of Michigan, DTMB - Enterprise**

**Risk Management (ERM)**

\_\_\_\_\_  
Authorized ERM Signature

\_\_\_\_\_  
Authorized ERM Agent (Print or Type)

\_\_\_\_\_  
Date

# STATE OF MICHIGAN

Contract No. 240000000163

Agricultural, Grounds, Turf, Earth Moving, and Roadside Maintenance Equipment

## SCHEDULE D SPECIFICATIONS

Equipment - Purchase, Rent, and/or Lease		Rental (Bidder must check the boxes below)	
SPEC SECTION	PAGE	BID	NO BID
1 C03-2001CD-23 Dump Body	2	X	
2 C03-2001LG-23 Lift Gate	4	X	
3 C03-2001SP-23 Snow Plow	5	X	
4 C03-2011CD-23 Dump Body TB FT	6		X
5 C03-20CU11-23 Utility Body	9	X	
6 C03-3001CAP-23 Cap for Pickup	11		X
7 C04-SDS-23 Stake Rack Body with Scissor Hydraulic Lift and Cab Protector	11		X
8 C05-1601-23 Backhoe	14	X	
9 C36-0401-4T-23 Asphalt Heater-Hauler	16		X
10 C36-Asphalt Recycler-23	18		X
11 C38-0101 CTL-23 Skid Steer Track Loader	18	X	
12 C38-0101-23 Skid Steer Loader	19	X	
13 C38-0101AWS-23 Skid Steer Loader	20		X
14 C38-0501LP-23 Fork Lift, Propane, 6,000 Lbs Capacity	21	X	
15 C54-0001-23 Concrete Saw	23	X	
16 C62-0101RB-23 Broom	23		X
17 C67-008T-23 Trailer	25	X	
18 C67-20T LP-23 Trailer	26	X	
19 C70-0001-23 Welder-Generator	26	X	
20 C60-2001-16 Sand-Salt Spreader	27	X	
21 C62-0051-23 Street Sweeper	28		X
22 C05-0901-23 Tractor Roadside	35		X
23 C05-0902-23 Tractor Roadside - Bi-Directional	37		X
24 C05-1001-23 Tractor Lawn Mower 2 Wheel steer	38		X
25 C05-1002-23 Tractor Lawn Mower 4 Wheel Steer 48-54-60 in deck	39		X
26 C05-1003-23 Zero Turn 60-72 in deck	40	X	
27 C06-1001-23 Utility Vehicle 6x4	42		X
28 C06-1002-23 Utility Vehicle 4 Wheel Drive	42	X	
29 C-42-0026-23 Mower, 15 ft Road Side Mechanical Drive Rotary	43		X
30 C-62-0101RB-23 Loader, 4 Wheel drive 2.25 Cubic Yard Minimum Capacity	44	X	
31 38-0201HD.23 Loader, 4 Wheel drive, Articulated, 3.0 Cubic Yard Minimum Capacity	46	X	
32 05-00051.23 Crawler Dozer (30hp & up)	49	X	
33 30-00LT23 Light Tower, Trailer Mounted Diesel Engine	56	X	
34 38-0501D-23 Fork Lift, Diesel Engine, 8,000 Lbs Capacity	57	X	
35 C56-051.23 Sewer and Catch Basin Cleaner Unit	58		X
36 C42-0027.23 Mower, 15 ft Road Side Hydraulic Drive Rotary	66		X
37 C10-010DD.22 Digger Derrick, with platform Body and FG through Box Light Tower	67		X
38 C10-034AT.22 Aerial Tower, 34 Foot Working Height and Utility Body	74	X	
39 C10-045AT.22 Aerial Tower, 45 Foot Working Height and Utility Body	80	X	

**The specifications below are considered to be samples of the type of equipment needed. Please be as specific as possible as to the specifications of your equipment offering. Make sure to include Make and Model and to list ALL deviations with sample specifications. The State must approve any deviations to this specification. Bidders must bid on at least one spec (multiple specs is preferred).**

1. - Spec. No. C03-2001CD-23		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
9 FOOT DUMP BODY WITH FOLD DOWN SIDES, ELECTRIC OVER HYDRAULIC SYSTEM MOUNTED ON A DUAL REAR WHEEL CAB & CHASSIS SUPPLIED BY MDOT		
1.1	Winning bidder shall be notified when units are available for dump body with hydraulic hoist installation. 90 day required delivery date shall start on this date	We Provide Truck Wlth Dump body
1.2	Winning bidder shall pick up units at MDOT's TSMO Fleet Operations, 2522 W. Main St., Lansing, MI, 48917 for installation of dump body with hydraulic hoist	We Provide Truck Wlth Dump body
1.3	Cab & chassis will be full of fuel before winning vendor picks them up and completed units shall be returned to MDOT in the same manner	We Provide Truck Wlth Dump body
1.4	Delivery of the completed trucks shall be to MDOT's TSMO Fleet Operations Facility, 2522 W. Main St., Lansing, MI, 48917 between the hours of 8:00am and 3:00pm, Monday through Friday, except public holidays. Bidder shall contact Fleet Operations at least 24 hours prior to pick up or delivery	Accept
1.5	All holes in cab and chassis frame rails shall be drilled or punched. <b>There shall be no flame/plasma cutting or welding on the frame side rails</b>	Accept
1.6	Dump body shall have all bare metal surfaces pre-cleaned and prepped prior to applying a compatible two part epoxy primer	Accept
1.7	When painting continues over a manufacturer's standard paint, metal prepping and primer may be omitted, providing an acceptable bond can be achieved	Accept
1.8	Dump body shall be painted matching cab & chassis paint code	Accept
1.9	Dump body hoist and sub-frame shall be painted black	Accept
1.10	Cab to end frame length on all body installations shall be the same length as the body being mounted, plus the length of any setback, frame extensions are not acceptable	
1.11	All wiring passing through holes in metal or non-metal wearing surfaces, which could cause wear of the insulation, shall be adequately protected by rubber or plastic grommets, and/or non-metallic conduit. Ends of all wires shall be adequately anchored to prevent loosening. All connections shall be soldered and enclosed in heat shrink. Scotch locks are <b>not</b> acceptable	Accept
1.12	Factory paint codes shall be provided and aftermarket brand and paint codes shall be provided	Accept
1.13	Mud flaps shall be anti-sail type, plain rubber, ¼ inch thick, with <b>NO</b> advertising on either side, provided and installed by vendor	Accept
1.14	Per Schedule E - Trailer Wiring Diagram, trailer connector shall be 7-way round pin Berg type , mounted at rear of frame, wired for turn signals independent of stop, compatible with trailers that have amber or side turn lamps, provided and installed by vendor	Accept
1.15	Rear hitch plate will be equipped with a small eye hook to be used for connection of an electric trailer brake away connector	Accept
1.16	Dump body and hoist shall be mounted directly behind the truck cab	Accept
1.17	All horizontal surfaces of dump body shall be dirt shedding	Accept
1.18	Dump body dimensions shall be approximately 9 feet long inside and 87 inches wide outside	Accept
1.19	Understructure shall be western-style cross-memberless	Accept
1.20	Longsills shall be fabricated trapezoidal design, of 10 gauge steel	Accept
1.21	Longsills shall be 7 inch height maximum	Accept
1.22	Longsill interior shall be coated with SG-50A corrosion preventative compound	Accept
1.23	Dump body floor shall be 7 gauge steel minimum	Accept
1.24	Sides and tailgate shall be 12 gauge steel minimum	Accept
1.25	Rear corner pillars shall have FMVSS #108 clearance lights mounted in rubber grommets	Accept



<b>1.26</b>	Rear apron shall have three (3) FMVSS #108 lights mounted in rubber grommets connected with one-piece wiring harness	Accept
<b>1.27</b>	Sides shall fold down with single lever control, be 14 inch height minimum and have greaseable hinges welded to underside of body	Accept
<b>1.28</b>	Fold down sides shall be limited in their travel by a channel iron welded to the underside of body and rubber bumper so they don't rub on rear tires	Accept
<b>1.29</b>	Sides shall be reinforced with braces and provide pockets for side boards	Accept
<b>1.30</b>	Sides shall be of internal tapered design to keep material from collecting and hampering side operation	Accept
<b>1.31</b>	Lock pin holes for sides shall be punched or drilled, flame or plasma cutting of holes is NOT acceptable	Accept
<b>1.32</b>	Tailgate shall be double acting, single lever control, reinforced with braces, 1-¼ inch pins top and bottom, and 20 inch height minimum	Accept
<b>1.33</b>	Top and bottom of tailgate shall be formed box design for added strength	Accept
<b>1.34</b>	Tailgate top hinge plate shall be heavy duty, 1 inch minimum bearing surface for the hinge pins	Accept
<b>1.35</b>	Tailgate hinge pins shall be 1-¼ inch C1045 cold rolled steel, lubricated by grease zerk	Accept
<b>1.36</b>	Latch fingers shall be 1 inch thick	Accept
<b>1.37</b>	Tailgate lower release mechanism shall be lubricated by grease zerk	Accept
<b>1.38</b>	Head sheet shall be reinforced with braces	Accept
<b>1.39</b>	Head sheet and cab protector shall be one piece, integral, 10 gauge steel minimum with pressed in "V" brace for added strength and have full screened bulkhead, height of cab protector shall be determined at post award meeting	Accept
<b>1.40</b>	Hoist shall be Crysteel LB510 or approved alternate	Accept
<b>1.41</b>	Hoist shall be:	Accept
	a. NTEA Class "C" or Class 30 scissors under body type	Accept
	b. Double acting, 12 volt electric over hydraulic power unit with momentary switch to be mounted in dash	Accept
	c. 5-½ inch cylinder bore	Accept
	d. 15-¼ cylinder stroke	Accept
	e. 2 inch diameter chromed cylinder shaft	Accept
	f. Cylinder port size shall be 9/16-18 ORB	Accept
	g. 3250psi operating pressure	Accept
	h. 9-¾ inch above frame mounting height	Accept
	i. Sub frame to be full length, 3-¾ inch tall, fabricated "C" channel frame rails, 10 gauge steel	Accept
	j. Rear hinge shall be 3-½ inch x 2-½ inch x ¼ inch x 36-½ inch structural angle	Accept
	k. 1-5/16 inch x 4-3/8 inch greaseable hinge pins	Accept
<b>1.41</b>	Dump angle shall be 45°	Accept
<b>1.42</b>	Hoist controls shall be push button mounted on dash, floor mount controls are NOT acceptable	Accept
<b>1.43</b>	Controls shall be automatic return to center type	Accept
<b>1.44</b>	Dump body shall stop movement either up or down when controls are released	Accept
<b>1.45</b>	Hydraulics shall be electric over hydraulic with pump, reservoir, and valve	Accept
<b>1.46</b>	A "body raised" light shall be mounted in the dash to illuminate when body is not in the down position	Accept
<b>1.47</b>	Back up alarm shall be electric, moisture resistant, approximately 95dba	Accept
<b>1.48</b>	Rear bumper shall be I.C.C. type with hitch plate having 16 inch ground clearance	Accept
<b>1.49</b>	Hitch plate shall be ¾ inch x 34 inch x 24 inch, bolted and welded to the chassis frame, drilled for multiple pintle hitch positions and include a 2 1/2 inch receiver tube mounted at 17 inches at the bottom	Accept
<b>1.50</b>	D-rings for safety chains with a capacity for 10 ton trailer shall be installed on the hitch plate (location to be determined at pre-construction meeting)	Accept
<b>1.51</b>	Lights shall be LED type and include:	Accept
	a. Clearance lights	Accept

	b. Rear stop	Accept
	c. Rear turn	Accept
	d. Rear tail	Accept
	e. Backup	Accept
<b>1.52</b>	All lights shall conform to all laws of the State of Michigan	Accept
<b>1.52</b>	"Body raised" light shall be activated by an epoxy sealed, magnetic proximity switch, Grainger part # 6C834 or Omron type TL-W20ME2 12V - 24V <b>No Exceptions</b>	Accept
<b>1.53</b>	OEM tail lights shall be remounted in the hitch plate	Accept
<b>1.54</b>	LED stop, tail, and turn lights shall be mounted in the corner posts of dump body	Accept
<b>1.55</b>	Rear corner posts shall have oval light cutouts, rear facing, one to each post for stop, tail and turn light. Lights to be furnished shall be Sound off ECV062STT or equivalent. Rear stop, tail and turn lights to be inside the outline of the corner post. Mounting boxes that extend past corner post are not acceptable	Accept
<b>1.56</b>	Two (2) LED Strobe lights shall be mounted on each side of the top of the tarp head. Lights will be ENRBC003Q Soundoff or equivalent. Light pattern will be a quad fast flash amber, and a single slow green flash. Two (2) LED strobe lights will be a EMPS2001HP Soundoff or equivalent and will be mounted on rear post pillars, Light pattern to match the overhead strobe lights. All lights will be wired to flash in synchronization and shall be wired through one switch battery hot.	Accept
<b>1.57</b>	A Go-light with wireless control will be mounted on the roof of the cab	Accept
<b>1.58</b>	Body prop shall support empty body weight	Accept
<b>1.59</b>	Vendor shall supply and install one Roll Rite window shade style tarp system Model number 62655-88 or approved alternate for each body	Can be added to rental upon request
<b>1.60</b>	Tarp system shall have aluminum wind guard	Accept
<b>1.61</b>	Tarp shall be mesh type 84" X 12'	Accept
<b>1.62</b>	Tarp shall be mounted to the head sheet of the dump body, exact location to be determined at preconstruction meeting	Accept
<b>1.63</b>	All items removed from cab and chassis by body installer (frame ends, fuel tanks, etc....) remain the property of the State of Michigan and are to be returned with the truck	Accept
<b>9 FOOT DUMP BODY WITH FOLD DOWN SIDES, ELECTRIC OVER HYDRAULIC SYSTEM MOUNTED ON A DUAL REAR WHEEL CAB &amp; CHASSIS SUPPLIED BY MDOT</b>		
<b>Make Offered:</b>		<b>Ford</b>
<b>Model Offered:</b>		<b>F550</b>

2. - Spec. No. C03-2001LG-23		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
LIFT GATE, 1500 LB CAPACITY MOUNTED ON A ¾ OR 1 TON PICKUP SUPPLIED BY MDOT		
1.1	Vendor shall pick up units at MDOT's TMSO Fleet Operations, 2522 W. Main St., Lansing, MI, 48917 for installation of Lift Gate	We Supply the vehicle and Lift Gate
1.2	Trucks will be full of fuel before vendor picks them up and completed units shall be returned to MDOT in the same manner	We Supply the vehicle and Lift Gate
1.3	Delivery of the completed trucks shall be to MDOT's TSMO Fleet Operations Facility, 2522 W. Main St., Lansing, MI, 48917 between the hours of 8:00am and 3:00pm, Monday through Friday, except public holidays. Vendor shall contact Fleet Operations at least 24 hours prior to pick up or delivery	We Supply the vehicle and Lift Gate
1.4	All holes in cab and chassis frame rails shall be drilled or punched. <b>There shall be no flame/plasma cutting or welding on the frame side rails</b>	Accept
1.5	All wiring passing through holes in metal or non-metal wearing surfaces, which could cause wear of the insulation, shall be adequately protected by rubber or plastic grommets, and/or non-metallic conduit. Ends of all wires shall be adequately anchored to prevent loosening. All connections shall be soldered and enclosed in heat shrink. <b>Scotch locks are not acceptable.</b>	Accept
1.6	Lift Gate platform dimensions shall be approximately 56 inches wide x 26 inches plus a 6 inch tapered ramp	Accept

1.7	Platform shall be aluminum	Accept
1.8	Platform shall be two piece folding type	Accept
1.9	Platform lifting capacity shall be 1,500 lbs.	Accept
1.10	Platform shall be power up and power down	Accept
1.11	Power shall be 12 volt electric over hydraulic	Accept
11.2	Control switch for up and down will be installed at the lift gate	Accept
1.13	A master switch on/off switch will be provided in the truck cab.	Accept
1.14	Lift Gate Operation shall not interfere with OEM installed receiver type trailer hitch	Accept
1.15	Rear Veiw Camera shall be provided and wired to the factory viewing screen.	Accept
1.16	All items removed from truck by Lift Gate installer (tail gate, rear bumper, etc.) remain the property of the State of Michigan and are to be returned with the truck	Accept
LIFT GATE, 1500 LB CAPACITY MOUNTED ON A ¾ OR 1 TON PICKUP SUPPLIED BY MDOT		
Make Offered:		Tommy Gate
Model Offered:		G2 Series
3. - Spec. No. C03-2001SP-23		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
SNOW PLOW, 9' 2" V TYPE MOUNTED ON A ¾ OR 1 TON PICKUP SUPPLIED BY MDOT		
1.1	Vendor shall pick up units at MDOT's TSMO Fleet Operations, 2522 W. Main St., Lansing, MI, 48917 for installation of Lift Gate	do not provide installation on non Herc trucks plow comes mounted to truck or seperate upon request
1.2	Trucks will be full of fuel before vendor picks them up and completed units shall be returned to MDOT in the same manner	do not provide installation on non Herc trucks plow comes mounted to truck or seperate upon request
1.3	Delivery of the completed trucks shall be to MDOT's TSMO Fleet Operations Facility, 2522 W. Main St., Lansing, MI, 48917 between the hours of 8:00am and 3:00pm, Monday through Friday, except public holidays. Vendor shall contact Fleet Operations at least 24 hours prior to pick up or delivery	do not provide installation on non Herc trucks plow comes mounted to truck or seperate upon request
1.4	All holes in cab and chassis frame rails shall be drilled or punched. <b>There shall be no flame/plasma cutting or welding on the frame side rails</b>	Accept
1.5	All wiring passing through holes in metal or non-metal wearing surfaces, which could cause wear of the insulation, shall be adequately protected by rubber or plastic grommets, and/or non-metallic conduit. Ends of all wires shall be adequately anchored to prevent loosening. All connections shall be soldered and enclosed in heat shrink. <b>Scotch locks are not acceptable</b>	Accept
1.6	Snow plow shall be 9' 2" wide in straight configuration	Accept
1.7	Snow plow shall be capable of operation in:	Accept
	a. Straight blade	Accept
	b. Angle to left	Accept
	c. Angle to right	Accept
	d. V plow with discharge to right & left	Accept
	e. Inverted V or scoop	Accept
1.8	Power unit shall be electric over hydraulic for Lift, Angle, V and Inverted V.	Accept
1.9	Controls shall be hand held type with wiring cable, in cab to control all functions.	Accept
1.10	Moldboard shall be steel with option for Poly	Accept

1.11	Blade shoes shall be provided	Accept
1.12	Snow deflector shall be installed on top of moldboard	Accept
1.13	Mounting kit shall be provided for make & model of truck that the snowplow is mounted on	Accept
1.14	Head light kit with relay shall be provided for make & model of truck that the snowplow is mounted.	Accept
1.15	All components shall be installed by vendor and will be fully operational when delivered.	Accept
SNOW PLOW, 9' 2" V TYPE MOUNTED ON A ¾ OR 1 TON PICKUP SUPPLIED BY MDOT		
Make Offered:		SnowDogg
Model Offered:		EX90
5. - Spec. No. C03-20CU11-23		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
11 FOOT COVERED UTILITY BODY AND 78 INCH CANOPY ROOF TO BE INSTALLED ON MDOT CHASSIS		
	UTILITY BODY	
1.1	Winning bidder shall be notified when units are available for utility body. 90 day required delivery date shall start on this date	No installations We will provide Cab and Chassis with utility body No canopy
1.2	Winning bidder shall pick up units at MDOT's TSMO Fleet Operations, 2522 W. Main St., Lansing, MI, 48917 for installation of utility body	No installations We will provide Cab and Chassis with utility body No canopy
1.3	Cab & chassis will be full of fuel before winning vendor picks them up and completed units shall be returned to MDOT in the same manner	No installations We will provide Cab and Chassis with utility body No canopy
1.4	Delivery of the completed trucks shall be to MDOT's TSMO Fleet Operations Facility, 2522 W. Main St., Lansing, MI, 48917 between the hours of 8:00am and 3:00pm, Monday through Friday, except public holidays. Bidder shall contact Fleet Operations at least 24 hours prior to pick up or delivery	No installations We will provide Cab and Chassis with utility body No canopy
1.5	All holes in cab and chassis frame rails shall be drilled or punched. <b>There shall be no flame/plasma cutting or welding on the frame side rails</b>	Accept
1.6	Utility body shall have all bare metal surfaces pre-cleaned and prepped prior to applying a compatible two part epoxy primer	Accept
1.7	When painting continues over a manufacturer's standard paint, metal prepping and primer may be omitted, providing an acceptable bond can be achieved	Accept
1.8	Utility body shall be painted matching cab & chassis paint code	Accept
1.9	All wiring passing through holes in metal or non-metal wearing surfaces, which could cause wear of the insulation, shall be adequately protected by rubber or plastic grommets, and/or non-metallic conduit. Ends of all wires shall be adequately anchored to prevent loosening. All connections shall be soldered and enclosed in heat shrink. <b>Scotch locks are not acceptable</b>	Accept
1.10	Utility body approximate dimensions shall be:	
	a. 133 inches long	Accept
	b. 93.5 inch body width	Accept
	c. 53.5 inch floor width	Accept
	d. 26 inches floor to top of compartment	Accept
	e. 20 inch compartment depth	Accept
	f. 42.5 inch compartment height	Accept
	g. 78 inch clear interior height	Accept
	h. 86-½ inch canopy roof width	No Canopy
	i. 15 inch, full length, two (2) per side interior shelves	Accept



	j. 53 inch clear interior width	Accept
	k. 12 inch x 30inch front window aligned with cab window with window guard	Accept
	l. 50 inch rear door opening width, full height	No Canopy
	m. 14 inch x 16 inch safety glass window in each rear door with window guards	Accept
1.11	Two (2) rear doors shall swing out to sides and be watertight	Accept
1.12	Automotive quality bubble type door seal shall be furnished on all compartment doors	Accept
1.13	Understructure shall be 5 inch, 6.7 pound structural steel channel cross-members	Accept
1.14	Tie channels shall be 3 inch 4.1 pound structural steel channel	Accept
1.15	Floor shall be 3/16 inch tread plate	Accept
1.16	Front boxes shall be 14 gauge A/60 galvanneal steel	Accept
1.17	Front and intermediate partition shall be A/60 galvanneal steel	Accept
1.18	Rear partition shall be 12 gauge A/60 galvanneal steel	Accept
1.19	Wheel house panels shall be 14 gauge A/60 galvanneal steel	Accept
1.20	Compartment sides shall be 14 gauge A/60 galvanneal steel	Accept
1.21	Front bulkhead shall be 14 gauge A/60 galvanneal steel	Accept
1.22	All shelving and dividers shall be 18 gauge steel minimum	Accept
1.23	Doors shall be double panel construction, 20 gauge A/60 galvanneal steel	Accept
1.24	Hinges shall be 5/16 inch diameter, electro zinc steel rod type with stainless steel end bearings	Accept
1.25	Door and compartment locks shall be flush mounted	Accept
1.26	All locks shall be keyed alike	Accept
1.27	All vertical doors shall be equipped with spring loaded door holder	Accept
1.28	Master locking system shall be provided on all compartments with handles at rear	Accept
1.29	All compartments shall have strip lighting with a master switch and pilot light in the cab, fused separately. Master switch shall also control roof mounted dome lights	Accept
1.30	Interior shall have two roof mounted dome lights	Accept
1.31	Street side compartments shall be:	Accept
	a. Front vertical – 32” wide x 42.5” high x 20 “ Deep with 6 drawer combo cabinet, all drawers have one way dividers and 300 lb. slides with one hand operation	Accept
	b. Second vertical – 22” wide x 42.5 “ high x 20 “ Deep with 2 shelves with adjustable dividers	Accept
	c. Horizontal – 54” wide x 21”high x 20 “ deep with one shelve with adjustable dividers, rubber mat installed on door	Accept
	d. Rear vertical – 24” wide x 42.5” high x 20” deep with 2 shelves with adjustable dividers	Accept
1.32	Curb side compartments shall be:	Accept
	a. Front vertical – 32” wide x 42.5” high x 20 “ With 2 shelves with adjustable dividers	Accept
	b. Second vertical – 22” wide x 42.5 “ high x 20 “ Deep with 2 shelves with adjustable dividers	Accept
	c. Horizontal – 54” wide x 21”high x 20” deep with one shelve with adjustable dividers, rubber mat installed on door	Accept
	d. Rear vertical – 24” wide x 42.5” high x 20” deep with 2 shelves with adjustable dividers	Accept
1.33	All exterior lights on body shall be LED type, conform with Motor Vehicle laws of the State of Michigan and include:	Accept
	a. Clearance	Accept
	b. Stop	Accept
	c. Tail	Accept
	d. Turn	Accept
	e. Back-up	Accept
	f. One (1) LED Strobe light shall be mounted on Roof of the cab and one (1) shall be placed on the rear of the body to provide 360 degrees of visability. Lights will be ENRBC003Q Soundoff or equivalent. Light pattern will be a quad fast flash amber, and a single slow green flash. Two (2) LED strobe lights will be a EMPS2001HP Soundoff or equivalent and will be mounted on rear body on both sides, above doors height. Light pattern to match the overhead strobe lights. All lights will be wired to flash in synchronization and shall be wired through one swicth battey hot.	Accept

1.34	Rear bumper shall be step type with recess in center for Trailer hitch	Accept
1.35	2 1/2" ID x 12" long receiver tube type trailer hitch	Accept
1.36	Per Schedule E - Trailer Wiring Diagram, trailer connector shall be 7-way round pin Berg type , mounted at rear of frame, wired for turn signals independent of stop, compatible with trailers that have amber or side turn lamps, provided and installed by vendor	Accept
1.37	Two ¾" D-rings installed for trailer safety chains	Accept
1.38	Eyelet for trailer breakaway cable	Accept
1.39	Mud flaps shall be anti-sail type, plain rubber, ¼ inch thick, with <b>NO</b> advertising on either side, provided and installed by vendor	Accept
1.40	Back up alarm shall be electric, moisture resistant, approximately 95dba	Accept
1.41	An aerodynamic air bubble shall be furnished to be installed on the front panel above truck cab	Accept
1.42	Install back up camera system including camera and viewing screen	Accept
11 FOOT COVERED UTILITY BODY AND 78 INCH CANOPY ROOF TO BE INSTALLED ON MDOT CHASSIS		
Model Offered:		Chevrolet
Make Offered:		3500
8. - Specification # C05-1601.23		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
TRACTOR/LOADER/BACKHOE, 4WD WITH EXTENDABLE REACH		
TRACTOR		
1.1	Engine shall be heavy duty diesel, rated at 92SAE horse power minimum	Accept
1.2	Engine shall have individually replaceable, wet sleeve cylinder liners	Accept
1.3	Unit shall have tilt hood for easy engine access	Accept
1.4	Engine lubrication shall be pressurized	Accept
1.5	Engine oil filter shall be spin on, full flow type	Accept
1.6	Air cleaner shall be dry type with safety element and centrifugal pre-cleaner	Accept
1.7	Anti-freeze protection shall be to -34°	Accept
1.8	Foot and hand throttle controls shall be provided	Accept
1.9	Key start switch shall be provided	Accept
1.10	Muffler with vertical exhaust and rain cap or curved top exhaust pipe	Accept
1.11	Transmission shall be power-shift with torque converter fully synchronized four forward, three reverse speeds with electrically actuated twist grip in first through fourth gears	Accept
1.12	Transmission disconnect switch shall be provided on loader control	Accept
1.13	Mechanical front wheel drive shall be provided	Accept
1.14	Both front and rear axles shall have either limited slip, torque proportioning differential, or a differential locking system	Accept
1.15	Front axle oscillation shall be 16° minimum with a remote grease bank	Accept
1.16	Rear axle shall be fixed	Accept
1.17	Steering shall be power, hydrostatic type	Accept
1.18	Service brakes shall be hydraulic actuated, foot operated, self-adjusting	Accept
1.19	Parking brake shall be independent of service brakes spring applied, hydraulically released, wet multi-disc, and sealed from water, mud, and dust contamination and shall also neutralize the reverser	Accept
1.20	Hydraulic system shall:	Accept
	a. Be open or closed center type	Accept
	b. Full flow filter with replacement element on return line	Accept
	c. Mesh screen on suction side	Accept
	d. Provide high flow hydraulic power to backhoe for attachments such as post driver, pavement breaker, etc.	Accept
	e. High flow kit must be complete with all lines, hoses, couplers, and valves	Accept



	f. Run 1 or 2 function tools	Accept
<b>1.21</b>	Tires shall be tubeless with chloride valves, air filled at delivery	Accept
<b>1.22</b>	Front tires shall be 14L x 17.5 (10 PR) traction type	Accept
<b>1.23</b>	Rear tires shall be 21L x 24 (10 PR) R4 minimum	Accept
<b>1.24</b>	Electrical system shall be 12volt with 95amp minimum output alternator	Accept
<b>1.25</b>	Dual Batteries with 1,900 combined CCA with disconnect switch	Accept
<b>1.26</b>	Unit shall be pre-wired with a fused 10 gauge wire in cab for two way radio hookup	Accept
<b>1.27</b>	Vandal protection shall include radiator, engine, fuel tank, and hydraulic reservoir	Accept
<b>1.28</b>	Lights shall include:	Accept
	a. Halogen driving and working lights	Accept
	b. Tail lights	Accept
	c. Front and rear turn signals	Accept
	d. Rear brake lights	Accept
	e. 2 side docking work lights mounted to the side of the roof	Accept
	f. Unit shall be pre-wired with a switch for a roof mounted beacon light	Accept
<b>1.29</b>	Rear fenders shall be provided	Accept
<b>1.30</b>	Steps and hand holds shall be provided for each side	Accept
<b>1.31</b>	Electric, moisture resistant back-up alarm, 95dba sound level shall be provided	Accept
<b>1.32</b>	A horn shall be provided	Accept
<b>1.33</b>	A grill guard shall be provided	Accept
<b>1.34</b>	A block heater shall be provided	Accept
<b>1.35</b>	A toolbox shall be provided	Accept
<b>1.36</b>	Fuel capacity shall be 36 gallons minimum	Accept
<b>1.37</b>	1,350 pound front counter weight shall be provided	Accept
<b>1.38</b>	Provide indicators, gauges, or lights for the following:	Accept
	a. Alternator charge	Accept
	b. Engine coolant temperature	Accept
	c. Engine oil pressure	Accept
	d. Torque converter temperature	Accept
	e. Transmission filter restriction	Accept
	f. Hydraulic system restriction	Accept
	g. Hour meter	Accept
	h. Parking brake	Accept
	i. Fuel level	Accept
	j. Tachometer	Accept
	k. Brake oil level	Accept
	l. Air cleaner restriction	Accept
<b>1.39</b>	Paint shall be manufacturer's standard construction yellow	Accept
<b>1.40</b>	Cab shall be safety type, all steel shell, fully enclosed, weatherproof, with safety glass in windshield, all doors and windows	Accept
<b>1.41</b>	Cab shall incorporate a roll over protection system (ROPS)	Accept
<b>1.42</b>	Cab shall have glove compartment	Accept
<b>1.43</b>	Cab shall have	Accept
	a. Hot water heater	Accept
	b. Outside mirrors	Accept
	c. Wipers front and rear	Accept
	d. Front windshield washer	Accept
	e. Front and rear defroster ducts	Accept
	f. Air suspension swivel deluxe cloth seat with arm rests	Accept
	g. Seat belt and retractor	Accept
	h. Opening rear window	Accept
<b>1.44</b>	Cab shall have inside mounted curved rearview mirror	Accept
<b>1.45</b>	Cab shall have floor mat	Accept
<b>1.46</b>	Cab height from ground shall be 9 feet 3 inches maximum	Accept
<b>1.47</b>	Factory installed air conditioning shall be provided	Accept

<b>1.48</b>	Cab shall have AM-FM radio with weather band	Accept
<b>LOADER</b>		Accept
<b>2.1</b>	Loader shall be single lever control, hydraulic self-leveling with automatic return to dig	Accept
<b>2.2</b>	Bucket shall be general purpose, 1 ½ cu/yd minimum SAE heaped with reversible bolt on cutting edge	Accept
<b>2.3</b>	Lifting	Accept
<b>2.4</b>	Hinge pin height shall be 11 feet fully raised minimum	Accept
<b>2.5</b>	Breakout force with long lip bucket shall be 10,210 pounds minimum	Accept
<b>2.6</b>	Dump reach shall be 35.5 inch minimum at full raise and 45° dump	Accept
<b>2.7</b>	Cutting edge width shall be 92 inches minimum	Accept
<b>BACKHOE</b>		Accept
<b>3.1</b>	Backhoe shall be extendable reach type with ¼ yard Wain-Roy, Inc. quick tilt coupler system	Accept
<b>3.2</b>	Backhoe shall have a 48 inch ditching bucket	Accept
<b>3.3</b>	Extendable backhoe transport lock shall be provided	Accept
<b>3.4</b>	Extendable dipper stick shall be outer box design	Accept
<b>3.5</b>	The following requirements are measured with a 24 inch standard trenching bucket:	Accept
	a. Digging depth with extension shall be 20 foot minimum	Accept
	b. Extended reach from swing pivot shall be 23 foot minimum	Accept
	c. Truck loading height with extension retracted shall be 12 foot, 6 inch minimum	Accept
	d. Digging force, bucket cylinder shall be 14,800 pounds minimum	Accept
	e. Transport height with extension retracted shall be 12 foot, 10 inch maximum	Accept
	f. Transportation length with extension retracted shall be 23 foot, 11 inch maximum	Accept
<b>3.6</b>	Backhoe controls shall be pilot controls with pattern selection switch in cab	Accept
<b>3.7</b>	Stabilizers shall have lockout and two position pads	Accept
<b>3.8</b>	Stabilizers shall have cylinder guards	Accept
<b>TRACTOR/LOADER/BACKHOE, 4WD WITH EXTENDABLE REACH</b>		
<b>Make Offered:</b>		Case
<b>Model Offered:</b>		580R

#### 11. - Spec. No. C 38-0101CTL-23

##### LOADER – SKID STEER-COMPACT TRACK LOADER

		<b>Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental</b>
<b>1.1</b>	Engine: Diesel, 107 HP Tier 4 Diesel. <b>(The acceptable engine HP for the size of this unit shall be approximately 100hp (+/-))</b>	Accept
<b>1.2</b>	Cooling: Liquid	Accept
<b>1.3</b>	Transmission: 2-Speed.	Accept
<b>1.4</b>	Air Cleaner: Dry type, replaceable element, with pre-cleaner.	Accept
<b>1.5</b>	Oil Filter: Full-flow, replaceable element.	Accept
<b>1.6</b>	Electrical System: 12 volt, manufacturer's standard size battery and alternator.	Accept
<b>1.7</b>	Steering and Drive: Hydraulic servo-actuated with steering, braking, forward and reverse controlled by operation of hand lever or levers.	Accept
<b>1.8</b>	Cab Enclosure with heat and AC	Accept
<b>1.9</b>	Bucket: Dirt type, 84" width.	Accept
<b>1.10</b>	Hydraulic System: Provide auxiliary hydraulics for operation of cold planer or other attachments, Variable Flow, pump size 36.6 gpm min., factory installed. Provide replaceable element filter.	Accept
<b>1.11</b>	Operating characteristics:	Accept
	a. Rated operating capacity: 3,325 lbs. min.	Accept
	b. Tipping load, SAE rated: 9300 lbs. min.	Accept
	c. Min. Height to Raised Bucket Pin: 132"	Accept
	d. Dump Height: 94" min.	Accept
	e. Travel Speed: 8.4 mph. approx.	Accept

1.12	Wheelbase: Approximately 48".	Accept
1.13	Overall Length with Bucket: 151" approx.	Accept
1.14	Operating Weight: <b>12,925 lbs.</b> approx. with bucket, without operator.	Accept
1.15	Tracks: Rubber 17 inches.	Accept
1.16	Backup alarm	Accept
1.17	Foot and hand throttle	Accept
1.18	ROPS with enclosed cab.	Accept
1.19	Hour meter	Accept
1.20	Fuel gauge	Accept
1.21	Locking fuel and hydraulic oil reservoir caps	Accept
1.22	Horn	Accept
1.23	Cold start kit and block heater	Accept
1.24	Adjustable seat with suspension	Accept
1.25	Seat belt	Accept
1.26	Parking brake	Accept
1.27	Front working lights (2)	Accept
1.28	Rear working lights (2)	Accept
1.29	Beacon light	Accept
1.30	Lift arm stops	Accept
1.31	ROPS mounted warning light monitoring system for:	Accept
	a. Audible alarm for low engine oil pressure,	Accept
	b. Transmission temperature,	Accept
	c. Water temperature,	Accept
	d. Alternator, battery voltage	Accept
	e. Seat belt reminder	Accept

#### LOADER – SKID STEER-COMPACT TRACK LOADER

<b>Make Offered:</b>	Bobcat
<b>Model Offered:</b>	T770

12. - Spec. No. C 38-0101-23		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
SKID STEER LOADER		
1.1	Engine: Diesel, 54 HP SAE net	Accept
1.2	Cooling: Liquid	Accept
1.3	Transmission: Hydrostatic with chain drive to all wheels.	Accept
1.4	Air Cleaner: Dry type, replaceable element, with pre-cleaner.	Accept
1.5	Oil Filter: Full-flow, replaceable element.	Accept
1.6	Electrical System: 12 volt, manufacturer's standard size battery and alternator	Accept
1.7	Steering and Drive: Hydraulic servo-actuated with steering, braking, forward and reverse controlled by operation of hand lever or levers.	Accept
1.8	Bucket: Dirt type, 11.5 min. cubic feet capacity, SAE rated heaped, 70" max. width	Accept
1.9	Hydraulic System: Provide auxiliary hydraulics for operation of cold planer or other attachments, pump size 22.0 gpm min., factory installed. Provide replaceable element filter.	Accept
1.10	Operating characteristics:	Accept
1.11	a.Rated operating capacity: 1700 lbs. min.	Accept
	b.Tipping load, SAE rated: 3400 lbs. min.	Accept
	c.Min. Height to Raised Bucket Pin: 116"	Accept
	d.Dump Height: 81" min.	Accept
	e.Travel Speed: 6.0 mph. approx.	Accept
1.12	Wheelbase: Approximately 40".	Accept
1.13	Overall Length with Bucket: 144" approx.	Accept
1.14	Operating Weight: 6,500 lbs. max. with bucket, without operator.	Accept

1.15	Tires: Pneumatic, 12.00 x 16.5, 6 ply.	Accept
1.16	Backup alarm	Accept
1.17	Foot and hand throttle	Accept
1.18	ROPS with overhead guard and integral screened sides.	Accept
1.19	Hour meter	Accept
1.20	Fuel gauge	Accept
1.21	Locking fuel and hydraulic oil reservoir caps	Accept
1.22	Horn	Accept
1.23	Cold start kit and block heater	Accept
1.24	Adjustable seat	Accept
1.25	Seat belt	Accept
1.26	Parking brake	Accept
1.27	Front working lights (2)	Accept
1.28	Rear working lights (2)	Accept
1.29	Beacon light	Accept
1.30	Lift arm stops	Accept
1.31	ROPS mounted warning light monitoring system for: Audible alarm for low engine oil pressure, transmission temperature, water temperature, alternator, battery voltage and seat belt reminder.	Accept

#### SKID STEER LOADER

<b>Make Offered:</b>	Bobcat
<b>Model Offered:</b>	S550

14. - SPEC NO. C38-0501LP-23 FORKLIFT, PROPANE FUELED, 6,000 POUND CAPACITY		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
1.1	Engine shall be:	Accept
	a. propane fueled	Accept
	b. 4 cylinder	Accept
	c. 60hp minimum	Accept
	d. water cooled	Accept
1.2	Forklifts shall have:	Accept
	a. Headlights	Accept
	b. Turn signals, front and rear	Accept
	c. Back up alarm of 95dba minimum	Accept
	d. Keyed ignition switch	Accept
	e. Hour meter to operate only when engine is running	Accept
	f. Horn	Accept
	g. Fuel gauge	Accept
	h. Coolant temperature gauge	Accept
	i. Low oil pressure warning light	Accept
	j. Battery charge indicator light	Accept
	k. Tail lights	Accept
	l. Back up lights	Accept
	m. Transmission temperature gauge	Accept
	n. Anti restart ignition	Accept
	o. Strobe lights	Accept
	p. Rear work lighting package	Accept
1.3	Travel speed shall be within the range of 9 to 11 mph depending on the load	Accept
1.4	Lift speed shall range from 114 to 120 fpm minimum	Accept
1.5	Forklift weight shall be 9,000 pound minimum	Accept
1.6	Rated load capacity at 24 inch load center shall be 6,000 pound minimum	Accept
1.7	Mast height lowered shall be approximately 86 inches	Accept
1.8	High load backrest shall be 48 inches high minimum	Accept

1.9	Mast shall be three (3) stage, wide view, full type	Accept
1.10	Maximum mast height at rated load shall be 183 inches minimum	Accept
1.11	Mast shall have a free lift of 5.5 inches	Accept
1.12	Mast tilting angles shall be a minimum 6° forward and 10° rearward	Accept
1.13	Side-shift attachment with 4 inch travel in each direction and a total of 8 inches travel minimum shall be provided	Accept
1.14	Minimum outside turning radius shall be approximately 94 inches	Accept
1.15	Forks shall be a minimum:	Accept
	a. 48 inches long	Accept
	b. 4.9 inches wide	Accept
	c. 1-¾ inches thick	Accept
	d. adjustable ,full width of carriage	Accept
1.16	Tires shall be pneumatic type sizes:	Accept
	a. drive –DUAL, 750X16	Accept
	b. steer – 6.5 x 10-12PR	Accept
1.17	Fenders: Extended to cover dual drive tires	Accept
1.18	Carriage: 57 inches wide	Accept
1.19	Ground clearance shall be 7 inch minimum	Accept
1.20	Wheelbase shall be 67 inches maximum	Accept
1.21	Service brakes shall be foot operated hydraulic type	Accept
1.22	Parking brakes shall be hand operated	Accept
1.23	Vendor shall supply two (2) L.P. fuel tanks to fit tank rack, one tank shipped loose, both tanks to be full on delivery	Accept
1.24	Overhead guard height shall be approximately 86 inches	Accept
1.25	Operator's seat shall be padded vinyl with seat belt	Accept
1.26	Operator's compartment shall be full-floating hydraulic suspension type	Accept
1.27	Draw bar pin shall be furnished	Accept
1.28	Draw bar pull weight shall be 4,600 pound minimum	Accept
1.29	Forklift shall have a hydraulic oil cooler	Accept
1.30	Forklift shall have fully hydrostatic power steering	Accept
1.31	Steering column shall be tilting	Accept
1.32	Forklift shall have load check valve	Accept
1.33	Forklifts shall be painted manufacturers standard color	Accept
1.34	Transmission shall:	Accept
	a. be "power shift" type	Accept
	b. have an in-line 125 mesh and 35 micron oil filters and aan oil cooler	Accept
	c. have an inching pedal	Accept

#### **FORKLIFT, PROPANE FUELED, 6,000 POUND CAPACITY**

<b>Make Offered:</b>	Toyota
<b>Model Offered:</b>	8FGU30

15. - Spec. No. 54-0001-23		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
SAW, CONCRETE, DIESEL, 42 INCH BLADE CAPACITY		
1.1	Concrete saws shall be painted manufacturers standard color	Accept
1.2	Engine shall be a 4 cylinder 66hp turbocharged diesel	Accept
1.3	Fuel tank capacity shall be 9.75 gallon minimum	Accept
1.4	Air filter shall be multi-stage with centrifugal pre-cleaner	Accept
1.5	Cutting blade diameter range shall be 18 inches to 42 inches	36IN Max Saw Size
1.6	Maximum cutting depth shall be 17.5 inches	Accept
1.7	Spindle diameter shall be 1 inch	Accept
1.8	Blade shaft diameter shall be 2 inch	Accept
1.9	Front axle shall be 1 inch	Accept



1.10	Rear axle shall be four (4) bolt hub mount	Accept
1.11	Blade flange shall be 7 inch	Accept
1.12	Output rpm shall be 1180rpm	Accept
1.13	Saws shall have a hydraulic parking brake	Accept
1.14	Right angle gear drive configuration shall utilize 16 V-belts to transmit power to blade shaft	Accept
1.15	Saws shall be equipped with a blade clutch switch to allow engine operation without blade rotation	Accept
1.16	Blade shaft shall have four (4) sealed radial ball bearing cartridges	Accept
1.17	Inner blade collar and sheave shall be press fit with keyway	Accept
1.18	Blade guard shall be slip-on type with auto latch, handle, wide, tapered guard spade and replaceable blade guard hinge	Accept
1.19	Transmission shall be balanced dual motor hydrostatic drive	Accept
1.20	Blade control:	Accept
	1. electro-hydraulic pump shall raise blade	Accept
	2. switch controlled raise/lower on speed control handle	Accept
	3. automatic blade depth control switch built into depth indicator	Accept
	4. depth can be set with auto stop function on depth indicator	Accept
	5. electric clutch blade drive disengagement system	Accept
1.21	Saws shall have full time electric switch operated adjustable tracking	Accept
1.22	Wheels:	Accept
	1. front – 8 inch x 3 inch	Accept
	2. rear – 10 inch x 3 inch	Accept
1.23	Single linear control on console shall provide forward, reverse, dynamic braking and neutral stop	Accept
1.24	Chassis shall be of welded box section construction	Accept
1.25	Water system shall include a dual water shut-off, one on each side of console and a low water pressure protection switch	Accept
<b>SAW, CONCRETE, DIESEL, 42 INCH BLADE CAPACITY</b>		
<b>Make offered:</b>		<b>HUSQVARNA</b>
<b>Model offered:</b>		<b>FS7000D</b>

17. - Spec. No. C67-008T-23		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
TRAILER, 8 TON, TANDEM AXLE WITH RAMPS		
1.1	GVWR shall be 16,800 pounds or greater	Accepted
1.2	Lockable toolbox in tonque	Accepted
1.3	Deck length shall be 18’ with 5’ loading ramps without a beavertail	Accepted
1.4	Deck width shall be 82 inch I.D. between fenders Minimum. Overall width not to exceed 102”	Accepted
1.5	Deck height shall be 20” Maximum	Accepted
1.6	Brakes shall be electric type, all four (4) wheels, with brake away switch and 12 volt wet cell breakaway battery and a pintle ring coupler	Accepted
1.7	Brakes and pintle coupler shall be appropriate for GVWR	Accepted
1.8	Pintle coupler shall be adjustable in height	Accepted
1.9	Axles shall be Torflex #7,000 pound capacity minimum, each	Accepted
1.10	A 12,000 pound drop leg jack shall be provided	Accepted
1.11	Main frame and cross members shall be I beam construction	Accepted
1.12	Deck material shall be 2 inch rough sawn oak fastened to all cross-members	Accepted
1.13	Safety chains with latching hooks shall be provided that are appropriate for the trailer GVWR	Accepted
1.14	Rear ramps shall be 5 feet long, hinged at rear, with securing straps for transport, and have spring assist	Accepted
1.15	Wheels shall be 6 or 8 bolt dish type	Accepted

1.16	Trailers shall have minimum of three (3) 4,000 pound D-rings on each side, 2 D rings on the front bulkhead	Accepted
1.17	Complete understructure of trailers shall be painted with high quality baked on enamel	Accepted
1.18	Steel fenders shall be provided	Accepted
1.19	Stop, tail, clearance, and turn signals shall be LED type, four (4) tail light system wired for turn signals independent of stop	Accepted
1.20	Per Schedule E - Trailer Wiring Diagram, trailer connector shall be 7-way round pin Berg type , mounted at rear of frame, wired for turn signals independent of stop, compatible with trailers that have amber or side turn lamps, provided and installed by vendor	Accepted
1.21	Trailer connector shall be routed through a weather-proof junction box mounted on the side of the tongue "A" frame	Accepted
1.22	NO Scotch locks will be accepted	Accepted
1.23	All wiring shall be in weatherproof loom	Accepted
1.24	All wiring shall be mounted to limit damage from crush of pinch type damage	Accepted
<b>TRAILER, 8 TON, TANDEM AXLE WITH RAMPS</b>		
<b>Make Offered:</b>		Felling
<b>Model Offered:</b>		FT-14IT-I-G

18. - Spec. No. C67- 20T-LP-23		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
TRAILER, 20 TON, LOW PROFILE FLATBED WITH BEAVER TAIL and RAMPS		
1.1	Payload capacity shall be 40,000 pounds	Accepted
1.2	Overall deck length shall be 24 feet	Accepted
1.3	Deck length shall be 19 feet without beavertail	Accepted
1.4	Brakes shall be 4 – wheel (both axles), air actuated	Accepted
1.5	ABS air brake controls shall be on one axle only	Accepted
1.6	Head board shall be a minimum of 4 inch heigh, full width	Accepted
1.7	Two (2) loading ramps shall be 21 inches wide x 5 feet long, hinged at the beavertail with two-way spring assist	Accepted
1.8	Deck width shall be 102 inches	Accepted
1.9	Loaded deck height shall be 32 inches MAXIMUM	Accepted
1.10	Deck shall be of 1 ½ inch thick oak	Accepted
1.11	Beavertail shall be approximately five (5) feet long with traction aids	Accepted
1.12	Hitch shall be pintle type, 3 inch ID, adjustable from 20 inches to 32 inches	Accepted
1.13	Main beams shall be 10 inch I-beam minimum	Accepted
1.14	Cross members shall be 4 inch I-beam minimum on 16 inch centers	Accepted
1.15	Axles shall be dual wheel, 20,000 pound minimum each	Accepted
1.16	Tires shall be 215/75R17.5, 16pr, radials	Accepted
1.17	Wheels shall be disc (Budd) type	Accepted
1.18	Spare wheel and tire shall be provided	Accepted
1.19	Tongue jack shall be 25,000 pound two speed	Accepted
1.20	Four (4) 10,000 pound capacity d-rings shall be provided per side	Accepted
1.21	Paint color shall be orange	Accepted
1.22	Lower structure shall be coated with rust-proofing	Accepted
1.23	All lights (stop, tail, turn, clearance) shall be LED type	Accepted
1.24	Per Schedule E - Trailer Wiring Diagram, trailer connector shall be 7-way round pin Berg type , mounted at rear of frame, wired for turn signals independent of stop, compatible with trailers that have amber or side turn lamps, provided and installed by vendor	Accepted
1.25	All wiring shall be weather proof, no scotch locks will be accepted	Accepted
1.26	Safety chains shall be appropriate for the GVWR of the trailer	Accepted
TRAILER, 20 TON, LOW PROFILE FLATBED WITH BEAVER TAIL and RAMPS		
Make Offered:		Felling
Model Offered:		FT-40-2LP



19. - SPEC. NO. C70-0001-23		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
WELDER/GENERATOR, SKID MOUNT, 350 AMP, DIESEL ENGINE		
1.1	Unit shall have 2 generator system, 4-Pole, 3-phase Generator for welding arc and separate 12,000 watt Power generator	Accpeted
1.2	Skid Mounted with Lift eye	Accpeted
1.3	DC Stick capacity, 20-400A	Accpeted
1.4	DC TIG capacity, 20-400A	Accpeted
1.5	MIG/FCAW capacity, 14-40 V	Accpeted
1.6	Generator output, Peek 12,000 W	Accpeted
1.7	Single phase generating peak output 12,000 W	Accpeted
1.8	Generator output, Continuous 10,000 W	Accpeted
1.9	Engine, Diesel 24 HP at 1,800 RPM	Accpeted
1.10	Fuel tank Capacity, 11.5 gallons	Accpeted
1.11	Cold Weather Starting Aids:	Accpeted
	a. Engine Block Heater	Accpeted
	b. Glow Plugs	Accpeted
1.12	Engine idle speed 1500 RPM	Accpeted
1.13	Engine shutdown system for high coolant temp, Low oil pressure, low fuel	Accpeted
1.14	Overall height, 32 inches	Accpeted
1.15	Overall width, 26 inches	Accpeted
1.16	Overall length, 56 inches	Accpeted
1.17	Approximate weight, 1,100 lbs.	Accpeted
WELDER/GENERATOR, SKID MOUNT, 350 AMP, DIESEL ENGINE		
Make Offered:		Lincoln Electric
Model Offer:		Vantage 322

20. - Spec. No. C60-2001-23		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
Combination Spreader with High Speed Anti Icing		
1.1	It is the intent of this specification to provide a slide in type hopper box material spreader to uniformly spread salt, sand or a combination of both for treatment of icy roads. The spreader shall have the capacity for liquid per-wetting nd high speed ant icing. The operation of the spreader will be controlled by a ground speed oriented hydraulic system. MDOT will install this spreader in a 64,000 GVW tandem axle truck with 14 foot dump box and a closed center load sensing hydraulic system.	Accepted
1.2	Make: E-Poke or approved alternate	Accepted
1.3	Model: 4902 or approved alternate	Accepted
1.4	6.5 Cubic yard capacity	Accepted
1.5	951 gallon liquid capacity	Accepted
1.6	Stainless steel agitator with replaceable spring fingers	Accepted
1.7	Soft rubber base	Accepted
1.8	Spring base and spring base adjustment	Accepted
1.9	Conveyor belt	Accepted
1.10	Transmission and variable pre-wetting pump, 5% to 30%	Accepted
1.11	External neutral gear	Accepted
1.12	Grate 4" X 4"	Accepted
1.13	Inspection ladder	Accepted
1.14	Guides, lateral with rails	Accepted
1.15	Hydraulic fittings	Accepted
1.16	Stainless steel delivery roller with 8 mm steel cams	Accepted

1.17	Multi-plug through cab kit with wiring and sealed quick couplers	Accepted
1.18	Distribution box with electronic speed adapter/pulse divider	Accepted
1.19	Auto stop of liquid refilling	Accepted
1.20	Shut off valve	Accepted
1.21	Delivery spout	Accepted
1.22	Epo-Master III controller with external card reader and RS 232	Accepted
1.23	Long spreader chute	Accepted
1.24	High speed anti-icing spray bar	Accepted
1.25	D ring tie down kit	Accepted
1.26	Lighting package consisting of two strobe lights and one rear work light	Accepted
1.27	Electric symmetry spreader control	Accepted
1.28	Level indicators for dry material and liquid	Accepted
1.29	Leg system	Accepted
1.30	Folding cover	Accepted
1.31	Spinner guard	Accepted
1.32	Mounting and installation on MDOT supplied truck	Accepted
<b>Combination Spreader with High Speed Anti Icing</b>		
<b>Make Offered:</b>		<b>SALTDogg</b>
<b>Model Offered:</b>		<b>Pro2000</b>

26. - Specification # C05-1003.23		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
TRACTOR/ZERO TURN LAWN MOWER		
1.1	Engine shall be gasoline, rated at 31 SAE horse power minimum	Accepted
1.2	Engine shall have overhead valves	Accepted
1.3	V twin	Accepted
1.4	Engine lubrication shall be pressurized	Accepted
1.5	Engine oil filter shall be spin on, full flow type	Accepted
1.6	Air cooled engine	Accepted
1.7	Engine shall have mechanical governor	Accepted
1.8	Air cleaner shall be heavy - duty canister type with safety element and pre-cleaner	Accepted
1.9	Choke speed controls, separate levers	Accepted
1.10	Fuel capacity shall be 11.5 gallons minimum	Accepted
	Fuel tank shall be equipped with a switch/ shut-off valve	Accepted
1.11	Key start switch shall be provided	Accepted
1.12	Electrical system shall be 12 volt	Accepted
1.13	Battery 12 v 300 CCA	Accepted
1.14	Charging System, Flywheel alternator, regulated, 20 amp	Accepted
1.15	Operator presence starting system Brake -N - Go	Accepted
1.16	Provide indicators, gauges, or lights for the following:	Accepted
	a. Engine hour meter	Accepted
	b. Engine oil pressure	Accepted
1.17	Hydraulic pumps, heavy - duty integrated piston pump	Accepted
1.18	Wheel motor, heavy duty integrated piston wheel motors	Accepted
1.19	Forward speed 0 - 10 mph	Accepted
1.20	Reverse Speed 0 - 4.5 mph	Accepted
1.21	Speed and direction control - twin levers	Accepted
1.22	Oil filter internal, replaceable	Accepted
1.23	Dynamic braking, twin levers	Accepted
1.24	Park brake, internal wet disk integrated in the transmission	Accepted
1.21	Park brake actuation, hand brake	Accepted
1.22	Drive tires 24x12-12, 4 ply	Accepted
1.23	PTO type, electro-magnetic 225 lb-ft	Accepted

1.24	PTO drive, V-belt	Accepted
1.25	Mower decks, 60, 72 in.	Accepted
1.26	Deck construction, one-piece stamped steel w/ reinforcements	Accepted
1.27	Deck thickness 7 gauge, 0.179 in.	Accepted
1.28	Mower deck side discharge	Accepted
1.29	Mower cut height, 1.0 - 5.5 in.	Accepted
1.30	Cut height increments 0.25 in.	Accepted
1.31	Caster wheel type, semi-pneumatic front tires	Accepted
1.32	Caster wheel size 13x6.5-6	Accepted
1.29	Front anti-scalp rollers, right hand, center, left hand	Accepted
1.30	Equipped with Roll over protection system(ROPS)	Accepted
1.31	Equipped with deluxe seat	Accepted
1.32	Paint shall be manufacturer's standard color	Accepted
1.33	Safety meets ANSI standard	Accepted
1.34	Meets Outdoor Power Equipment Institute (OPEI) standard	Accepted
1.35	Warranty 3 year / 1200 hour bumper to bumper	Accepted
1.36	2 - Parts manual	Accepted
1.37	2 - Service manual	Accepted
1.38	2 - Safety & training video	Accepted

#### TRACTOR/ZERO TURN LAWN MOWER

<b>Make Offered:</b>	Bobcat
<b>Model Offered:</b>	ZT3561SH

28. - Specification # C06-1002.23		Rental Bidder Response (Indicate acceptance and/or provide alternate)  Rental
4x4 UTILITY VEHICLE		
1.1	Engine shall be 4 cycle gasoline, rated at 15.7 SAE horse power minimum	Accepted
1.2	Engine lubrication shall be pressurized	Accepted
1.3	Engine oil filter shall be spin on, full flow type	Accepted
1.4	Liquid cooled engine	Accepted
1.5	Engine shall have mechanical governor	Accepted
1.6	Air cleaner shall be dry type, replaceable with foam pre cleaner	Accepted
1.7	Choke speed controls, separate levers	Accepted
1.8	Fuel capacity shall be 5.3 gallons minimum	Accepted
1.9	Key start switch shall be provided	Accepted
1.10	Electrical system shall be 12volt	Accepted
1.11	Batteries 12 v 340 CCA	Accepted
1.12	Charging System, Flywheel alternator, regulated, 20 amp	Accepted
1.13	Provide indicators, gauges, or lights for the following:	Accepted
	a. Engine hour meter	Accepted
	b. Engine oil pressure	Accepted
	c. Fuel level	Accepted
1.14	Steering shall be manual two wheel steer	Accepted
1.15	Front suspension independent McPherson Strut	Accepted
1.16	Rear suspension coil over shock	Accepted
1.17	Transmission, continuously variable transmission (CVT)	Accepted
1.18	Final drive, two speed oil bath	Accepted
1.19	Forward speed 0 - 25 mph	Accepted
1.20	Reverse Speed 0 - 12 mph	Accepted
1.21	Brakes shall be disk	Accepted
1.22	Parking brake, disk	Accepted
1.21	Front tires two 24x9.5-10	Accepted
1.22	Rear tires two 24 x 10.5-10	Accepted

1.23	Bucket Seats	Accepted
1.24	Cup holders, Glovebox	Accepted
1.25	Paint shall be manufacturer's standard color	Accepted
1.26	Safety meets ANSI standard	Accepted
1.27	Meets Outdoor Power Equipment Institute (OPEI) standard	Accepted
1.29	Warranty 1 year / 1000 hour bumper to bumper	Accepted
1.30	2 - Parts manual	Accepted
1.31	2 - Service manual	Accepted
1.32	2 - Safety & training video	Accepted
<b>4x4 UTILITY VEHICLE</b>		
<b>Make Offered:</b>		Polaris
<b>Model Offered:</b>		PRO XD 4000G

<b>30. - Spec. No. C62-0101RB-23 LOADER – 4 WHEEL DRIVE, ARTICULATED, 2.25 CUBIC YARD MINIMUM CAPACITY</b>		<b>Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental</b>
1.1	Loaders shall be painted manufacturer's standard color	Accepted
1.2	Shall have vandal protection for radiator, engine, fuel tank, and hydraulic reservoir. Lockable access shall be part of this protection system.	Accepted
1.3	Wheel base shall be 114 inches minimum	Accepted
1.4	Height over R.O.P.S. shall be 10 foot 8 inches MAXIMUM NO EXCEPTIONS	Accepted
1.5	Shall have bucket position indicator	Accepted
1.6	Shall have fenders both front and rear	Accepted
1.7	Shall have a horn	Accepted
1.8	Shall have operators access steps with safety handrails	Accepted
1.9	Shall have a toolbox	Accepted
1.1	Shall have frame articulation of 80° with center pivot	Accepted
1.11	Shall have an approximate turning radius of 19 feet 10 inches maximum	Accepted
1.12	Shall have ride control for bucket	Accepted
<b>2.0 ENGINE</b>		Accepted
2.1	Shall be water cooled, turbocharged, diesel, air to air after cooled	Accepted
2.2	Horse Power rating shall be 130 @ 2000 rpm minimum	Accepted
2.3	Air cleaner shall be two stage dry type with restriction indicator	Accepted
2.4	Cold weather starting aid shall be electric intake manifold pre-heater and 120v block heater	Accepted
2.5	Shall have antifreeze protection to -34° F	Accepted
<b>3.0 TRANSMISSION</b>		Accepted
3.1	Shall have four (4) forward speeds	Accepted
3.2	Shall have four (4) reverse speeds	Accepted
3.3	Top speed shall be 23mph minimum	Accepted
3.4	Shall be hydrostatic with one (1) pump and two (2) motors and variable first speed	Accepted
3.5	Shall have a transmission cooler	Accepted
<b>4.0 DRIVELINE</b>		Accepted
4.1	Differentials shall be torque proportioning type	Accepted
4.2	Final drive shall be planetary type	Accepted
4.3	Rear axle shall be a semi-floating type with a total minimum oscillation of 30 °	Accepted
<b>5.0 ELECTRICAL</b>		Accepted
5.1	Shall be 12 or 24 volt	Accepted
5.2	Alternator shall be 60 amp minimum	Accepted
5.3	Back up alarm of 95dba minimum	Accepted
5.4	Shall have front and rear windshield wipers and washers,	Accepted
5.5	front wipers shall be intermittent type	Accepted
5.6	Cab interior light	Accepted

5.7	Shall have two (2) front halogen high/low beam cab mounted headlights with indicator	Accepted
5.8	Shall have two (2) front halogen work lights	Accepted
5.9	Shall have two (2) rear halogen works lights	Accepted
5.10	Shall have two (2) rear combination stop/tail lights	Accepted
5.11	Shall have two (2) rear backup lights	Accepted
5.12	Shall have two (2) front and two (2) rear turn signals with hazard flashers	Accepted
5.13	Shall have instrument panel light	Accepted
5.14	Shall have 12 volt power supply for accessories in cab	Accepted
5.15	Gauges shall include:	Accepted
	a. speedometer	Accepted
	b. tachometer	Accepted
	c. engine coolant temperature	Accepted
	d. fuel level	Accepted
	e. transmission oil temperature	Accepted
	f. hour meter – to operate only when engine is running	Accepted
<b>6.0 BRAKES</b>		Accepted
6.1	Service brakes shall be hydraulic power boosted, sealed wet disc, foot operated to all four (4) wheels	Accepted
6.2	Parking brake shall be manufacturer's standard and neutralize the transmission when applied	Accepted
<b>7.0 OPERATOR'S COMPARTMENT</b>		Accepted
7.1	Shall be all steel, fully enclosed, and weatherproof	Accepted
7.2	Shall incorporate a Roll Over Protection System (R.O.P.S.)	Accepted
7.3	Shall meet all OSHA and MIOSHA standards	Accepted
7.4	Shall have tinted, full vision safety glass in windshield, all doors and windows	Accepted
7.5	Shall have an adjustable, deluxe cloth, suspension type seat with arm rests and seat belt with retractor	Accepted
7.6	Shall have hot water heater, defroster fans (front and rear)	Accepted
7.7	One (1) inside rearview mirror rearview mirrors	Accepted
7.8	Two (2) outside mounted West Coast type	Accepted
7.9	Shall have a sun visor	Accepted
7.10	Factory installed air conditioning	Accepted
7.11	Shall have a 12 volt power outlet for accessories	Accepted
<b>8.0 TIRES</b>		Accepted
8.1	Shall be tubeless, 20.5 x 25 12 PR with L3 tread	Accepted
8.2	Shall have construction equipment type rims with valves for filling with chloride solution	Accepted
<b>9.0 OPERATING WEIGHT</b>		Accepted
9.1	Shall be 25,000 pounds minimum with standard equipment, excluding optional ballast or chloride filled tires	Accepted
<b>10.0 BUCKET</b>		Accepted
10.1	Shall be all-purpose 2.25 cubic yard minimum	Accepted
10.2	Shall have a bolt on cutting edge	Accepted
10.3	Width shall be equal to or in excess of the outside width of the tires	Accepted
10.4	Lifting, lowering, dumping, and tilting of the bucket shall be actuated by power hydraulic means	Accepted
10.5	Bucket action shall be provided for tilting the bucket independently of the lifting arm action with automatic return to dig	Accepted
<b>11.0 TIPPING LOADS</b>		Accepted
11.1	The operating and tipping loads required below shall take into account the additional weight of the front mounted attachment coupler	Accepted
11.2	Operating load shall be 7,000 pounds minimum	Accepted
11.3	Tipping load straight shall be 17,000 pounds minimum	Accepted
11.4	Tipping load in full turn shall be 14,000 pounds minimum	Accepted
11.5	Breakout force shall be 29,000 pounds minimum	Accepted



11.6	Dumping clearance (cutting edge) at maximum height and 45° dump angle shall be 10 feet minimum	Accepted
<b>12.0 QUICK ATTACH COUPLER SYSTEM</b>		Accepted
12.1	Coupler system shall consist of one (1) male and two (2) female adaptors as well as the necessary hydraulics and controls	Accepted
12.2	Male adaptor shall be pinned to the loader arm linkage in place of the bucket	Accepted
12.3	Female adaptors shall be compatible with the male adaptor and shall incorporate two (2) pin bosses which shall accept the male coupler locking pins	Accepted
12.4	Coupler shall be compatible with the full range of available loader attachments	Accepted
12.5	One (1) female adaptor shall be integrally installed on the loader bucket	Accepted
12.6	One (1) female adaptor shall be integrally installed on the forklift attachment	Accepted
12.7	Make shall be American Coupler System	Accepted
12.8	Model shall be Pro Series 2000	Accepted
<b>13.0 FORKLIFT ATTACHMENT</b>		Accepted
13.1	Shall be integrally fitted with a female coupler adaptor as described in Section 12	Accepted
13.2	Tine length shall be 72 inches minimum	Accepted
13.3	Ground to top of tine clearance shall be 11 foot minimum	Accepted
13.4	Fork width outside to outside of tine shall be 58 inches minimum	Accepted
<b>14.0 AUTOMATED LUBRICATION SYSTEM</b>		Accepted
14.1	Loaders shall have a Lincoln Quicklub® 203 automated lubrication system	Accepted
<b>LOADER – 4 WHEEL DRIVE, ARTICULATED, 2.25 CUBIC YARD MINIMUM CAPACITY</b>		
Make Offered:		Volvo
Model Offered:		L-70H

31. - Spec. No. 38-0201HD.23		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
LOADER – 4 WHEEL DRIVE, ARTICULATED, 3.0 CUBIC YARD MINIMUM CAPACITY		
1.1	Loader shall be painted manufacturers standard color	Accepted
1.2	Shall have vandal protection for radiator, engine, fuel tank, and hydraulic reservoir. Lockable access shall be part of this protection system	Accepted
1.3	Wheel base shall be 119 inches minimum	Accepted
1.4	Height over R.O.P.S. shall be 10 foot 8 inches maximum	Accepted
1.5	Shall have bucket position indicator	Accepted
1.6	Shall have fenders both front and rear	Accepted
1.7	Shall have ride control	Accepted
1.8	Shall have a horn	Accepted
1.9	Shall have operators access steps with safety handrails	Accepted
1.10	Shall have a toolbox	Accepted
1.11	Shall have frame articulation of 80° with center pivot	Accepted
1.12	Shall have an approximate turning radius of 20 feet 8 inches maximum	Accepted
2.0 ENGINE		Accepted
2.1	Shall be water cooled, turbocharged, diesel, air to air after cooled	Accepted
2.2	Horse Power rating shall be 160 @ 2000 rpm minimum	Accepted
2.3	Air cleaner shall be two stage dry type with restriction indicator	Accepted
2.4	Cold weather starting aid shall be electric intake manifold pre-heater	Accepted
2.5	Shall have antifreeze protection to -34° F	Accepted
3.0 TRANSMISSION		Accepted
3.1	Shall have four (4) forward speeds	Accepted
3.2	Shall have four (4) reverse speeds	Accepted
3.3	Top speed shall be 23mph minimum	Accepted
3.4	Shall be hydrostatic with one (1) pump and two (2) motors and variable first speed	Accepted
3.5	Shall have a transmission cooler	Accepted
4. DRIVELINE		Accepted
4.1	Differentials shall be torque proportioning type	Accepted

4.2	Final drive shall be planetary type	Accepted
4.3	Rear axle shall be a semi-floating type with a total minimum oscillation of 30 °	Accepted
<b>5.0 ELECTRICAL</b>		Accepted
5.1	Shall be 12 or 24 volt	Accepted
5.2	Alternator shall be 60amp minimum	Accepted
5.3	Back up alarm of 95dba minimum	Accepted
5.4	Shall have front and rear windshield wipers and washers, front wipers shall be intermittent type	Accepted
5.5	Cab interior light	Accepted
5.6	Shall have two (2) front halogen high/low beam cab mounted headlights with indicator	Accepted
5.7	Shall have two (2) front halogen work lights	Accepted
5.8	Shall have two (2) rear halogen works lights	Accepted
5.9	Shall have two (2) rear combination stop/tail lights	Accepted
5.10	Shall have two (2) rear backup lights	Accepted
5.11	Shall have two (2) front and two (2) rear turn signals with hazard flashers	Accepted
5.12	Shall have instrument panel light	Accepted
5.13	Gauges shall include:	Accepted
	a. speedometer	Accepted
	b. tachometer	Accepted
	c. engine coolant temperature	Accepted
	d. fuel level	Accepted
	e. transmission oil temperature	Accepted
	f. hour meter – to operate only when engine is running	Accepted
<b>6.0 BRAKES</b>		Accepted
6.1	Service brakes shall be hydraulic power boosted, sealed wet disc, foot operated to all four (4) wheels	Accepted
6.2	Parking brake shall be manufacturer's standard and neutralize the transmission when applied	Accepted
<b>7.0 OPERATOR'S COMPARTMENT</b>		Accepted
7.1	Shall be all steel, fully enclosed, and weatherproof	Accepted
7.2	Shall incorporate a Roll Over Protection System (R.O.P.S.)	Accepted
7.3	Shall meet all OSHA and MIOSHA standards	Accepted
7.4	Shall have tinted, full vision safety glass in windshield, all doors and windows	Accepted
7.5	Shall have an adjustable, deluxe cloth, suspension type seat with arm rests and seat belt with retractor	Accepted
7.6	Shall have hot water heater,	Accepted
7.7	defroster fans (front and rear)	Accepted
7.8	One (1) inside rearview mirror	Accepted
7.9	Air ride seat shall be provided	Accepted
7.10	Two (2) outside mounted West Coast type rearview mirrors	Accepted
7.11	Shall have a sun visor	Accepted
7.12	Factory installed air conditioning	Accepted
7.13	Shall have a 12 volt power outlet for accessories	Accepted
<b>8.0 TIRES</b>		Accepted
8.1	Shall be tubeless, 20.5 x 25 12 PR with L3 tread	Accepted
8.2	Shall have construction equipment type rims with valves for filling with chloride solution	Accepted
<b>9.0 OPERATING WEIGHT</b>		Accepted
9.1	Shall be 30,600 pounds minimum with standard equipment, excluding optional ballast or chloride filled tires	Accepted
<b>10.0 BUCKET</b>		Accepted
10.1	Shall be all-purpose 3.0 cubic yard minimum	Accepted
10.2	Shall have a bolt on cutting edge	Accepted
10.3	Width shall be equal to or in excess of the outside width of the tires	Accepted
10.4	Lifting, lowering, dumping, and tilting of the bucket shall be actuated by power hydraulic means	Accepted



10.5	Bucket action shall be provided for tilting the bucket independently of the lifting arm action with automatic return to dig	Accepted
11.0 TIPPING LOADS		Accepted
11.1	The operating and tipping loads required below shall take into account the additional weight of the front mounted attachment coupler	Accepted
11.2	Operating load shall be 9,500 pounds minimum	Accepted
11.3	Tipping load straight shall be 21,800 pounds minimum	Accepted
11.4	Tipping load in full turn shall be 19,000 pounds minimum	Accepted
11.5	Breakout force shall be 29,900 pounds minimum	Accepted
12.0 QUICK ATTACH COUPLER SYSTEM		Accepted
12.1	Dumping clearance (cutting edge) at maximum height and 45° dump angle shall be 11 feet minimum	Accepted
12.2	Coupler system shall consist of one (1) male and two (2) female adaptors as well as the necessary hydraulics and controls	Accepted
12.3	Male adaptor shall be pinned to the loader arm linkage in place of the bucket	Accepted
12.4	Female adaptors shall be compatible with the male adaptor and shall incorporate two (2) pin bosses which shall accept the male coupler locking pins	Accepted
12.5	Coupler shall be compatible with the full range of available loader attachments	Accepted
12.6	One (1) female adaptor shall be integrally installed on the loader bucket	Accepted
12.7	One (1) female adaptor shall be integrally installed on the forklift attachment	Accepted
12.8	Make shall be American Coupler System	Accepted
12.9	Model shall be Pro Series 2000	Accepted
13.0 FORKLIFT ATTACHMENT		Accepted
13.1	Shall be integrally fitted with a female coupler adaptor as described in Section 12	Accepted
13.2	Tine length shall be 72 inches minimum	Accepted
13.3	Ground to top of tine clearance shall be 11 foot minimum	Accepted
13.4	Fork width outside to outside of tine shall be 58 inches minimum	Accepted
14.0 AUTOMATED LUBRICATION SYSTEM		Accepted
14.1	Loaders shall have a Lincoln Quicklub® 203 automated lubrication system	Accepted
LOADER – 4 WHEEL DRIVE, ARTICULATED, 3.0 CUBIC YARD MINIMUM CAPACITY		
Make Offered:		Volvo
Model Offered:		L70H
32. - Spec. No. 05-00051.23		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
CRAWLER DOZER (30HP & UP)		
1.0 PERFORMANCE		
1.1	Tops speed at full throttle on clear, level ground shall be a minimum of 6.0 MPH	Accepted
1.2	Tractor must be capable of developing and sustaining a minimum of 6,500 pounds of draw bar pull at 3.0 mph for fire plow operation	Accepted
2.0 ENGINE		Accepted
2.1	Diesel fueled, Minimum 85 net horsepower per latest issue of SAE J1349	Accepted
2.2	Engine compartment shall be enclosed	Accepted
2.3	Fan must be blower type, with a finger guard around it	Accepted
2.4	Radiator must be suitable for forestry applications	Accepted
2.5	Radiator shall be designed to reduce clogging from airborne debris	Accepted
2.6	Cooling system shall be filled with suitable antifreeze with a minimum protection level of - 30 degrees F.	Accepted
2.7	Coolant conditioner shall be provided per manufactures recommendations	Accepted
2.8	Combustion air intake shall be designed to prevent damage from limbs and other objects	Accepted
2.9	Air cleaner shall be a dry type safety element with a pre cleaner	Accepted
2.10	Precleaner shall be protected by a perforated guard that serves as a prescreen	Accepted
2.11	Restriction indicator shall be provided and be visible from the operators seat	Accepted

2.12	Exhaust system must meet US forestry service spark arrestor requirements (Standard 5100).	Accepted
2.13	An exhaust driven turbo charger must also meet Standard 5100	Accepted
2.14	Exhaust must be muffled to meet or be less than OSHA limits for noise level for construction or forestry equipment	Accepted
2.15	Exhaust parts located outside the engine compartment shall be inboard and below the level of the limb risers	Accepted
2.16	Flexible pipe sections must be stainless steel	Accepted
2.17	Exhaust system shall be weatherproof and protect the engine from rainfall during idle periods	Accepted
2.18	Muffler shall be protected from rain and soot sludge with a stainless steel shield	Accepted
2.19	Mufflers and other large exhaust components shall be mounted in the engine compartment	Accepted
2.20	Fuel-water separator shall be Underwriters Lab(UL) approved fuel water separator with a spin on replaceable element.	Accepted
2.21	Fuel water separator shall be mounted with the removable element and drain at the bottom	Accepted
2.22	Primary spin-on replaceable fuel filter shall meet UL Standards, with the removable element and drain at the bottom	Accepted
2.23	Fuel tank shall be equipped with a drain valve	Accepted
2.24	Manual fuel pump priming pump shall be provided	Accepted
2.25	All fuel lines must be metal or metal reinforced hoses	Accepted
2.26	All hose connections will be threaded with SAE or flat faced O-ring connectors only	Accepted
2.27	Fuel tank shall be metal construction	Accepted
2.28	Engine equipped with a 120 Volt block heater for the coolant system	Accepted
2.29	Engine to be equipped with a spin on oil filter and a full pressurized lube system	Accepted
<b>3.0 DRIVETRAIN</b>		Accepted
3.1	Transmission shall be hydrostatic drive	Accepted
3.2	Hydrostatic transmission must be dual path design with load sensing, anti-stall and "counter rotation"	Accepted
3.3	Unit must be capable of "power turns" with a constant turning radius at any travel speed	Accepted
3.4	Steering shall be controlled by a single lever joy stick which:	Accepted
	a. Must control forward and reverse	Accepted
	b. Must control counter rotation	Accepted
	c. Forward and reverse must automatically detent into the engaged position	Accepted
	d. Detent must be able to hold the joystick in position no mater what type of terrain the unit is on	Accepted
	e. Travel speed must be controlled by a separate control, and be able to be set at a constant speed with out driver input	Accepted
3.5	An indicator must warn driver when counter rotation is about to be activated	Accepted
3.6	Test ports must be provided for hydrostatic transmission diagnosis	Accepted
3.7	Provide a gauge at operator control panel to show transmission charge pressure	Accepted
3.8	Hydrostatic hydraulic oil will have a spin-on oil filter, if provided drain shall be at the bottom	Accepted
<b>4.0 UNDERCARRIAGE</b>		Accepted
4.1	Track gauge shall be either 57 inches or 65 inches	Accepted
4.2	Track shoes shall be center mounted single grouser type. Pad width will be either 16 inch or 24 inch	Accepted
4.3	Track length shall be at least 88 inch's, with a contact area of 2750 or 4125 square inches	Accepted
4.4	Each track shall have a minimum of six (6) track rollers	Accepted
4.5	Track ground pressure shall be between 4.32 and 5.99 pounds per square inch (PSI)	Accepted
4.6	Track adjusters shall be hydraulic with covered grease points	Accepted
4.7	Recoil springs shall be covered and equipped with over-pressure protection	Accepted
4.8	Each track shall have a minimum of one (1) carrier roller	Accepted
4.9	Track chain shall be sealed and lubricated	Accepted

4.10	Rollers and idlers shall be provided with lifetime lubrication	Accepted
4.11	Seals on rollers and idlers shall be face type, metal to metal	Accepted
4.12	All under carriage components, including roller frames, idlers, rails, sprockets, rollers and shoes will be heavy duty type, capable of continues use	Accepted
4.13	Sprockets shall be equipped with rock guards	Accepted
4.14	Both ends of track grouser shall be clipped on a 45 degree angle	Accepted
4.15	Six (6) track pads on each track shall be equipped with key slots for insertion and retention of a 1/2 inch chain, centered in pad	Accepted
	a. Key slots shall accept and retain both 3/8 and 1/2 inch size chain	Accepted
	b. These modified pads are to be evenly spaced around the track chain	Accepted
	c. The shape and location of this modification to the pad must be approved by the manufacturer	Accepted
<b>5.0 CHASSIS</b>		Accepted
5.1	Engine compartment front grill must be rated for extreme service in forestry application	Accepted
5.2	Grill must be removable, and louvered, and not restrict air flow to the engine	Accepted
5.3	Cowl/hard nose around the radiator shall incorporate a grill guard and be a minimum of 1/2 inch thick	Accepted
5.4	All other exterior panels of this shroud nose shall be constructed of steel material and be a minimum of 1/2 inch thick	Accepted
5.5	All non protected exterior exposed sheet metal along the side of the unit that is inboard of the inside edge of the tracks shall be minimum of 0.100 inches thick	Accepted
5.6	All non protected exterior sheet metal along the side of the unit that protrudes beyond the inboard edge of the tracks shall be a minimum of 0.160 inches thick	Accepted
5.7	All non protected exterior sheet metal at the rear of the tractor shall be a minimum of 0.160 inches thick	Accepted
5.8	Engine side compartment panels shall be quick release, with out the use of tools	Accepted
5.9	Tractor must be equipped with a full length, heavy duty bottom guard	Accepted
5.10	Bottom guard shall be a minimum of 1/2 inch thick	Accepted
	Bottom guard must include a bolt-on bottom access hatch located at the lowest part of the guard for debris clean out	Accepted
5.11	Bottom guard may be omitted under transmission, if the manufacturer warrants the transmission case to serve as the bottom guard	Accepted
5.12	Tractor shall be equipped with a closed eye, front tow hook	Accepted
5.13	Access for all routine and daily maintenance shall be convenient and not require the use of hand tools	Accepted
5.14	Tractor shall be equipped with a vandal protection package to allow locking of all fill points or there compartments	Accepted
5.15	All locks for vandal protection shall be keyed alike, and 2 sets of keys shall be provided	Accepted
5.16	All liquid fill points are to be labels as to the type of fluid used (i.e. diesel fuel, hydraulic oil, engine oil, etc..)	Accepted
5.17	Two (2) tie down rings shall be provided on each roller frame	Accepted
5.18	These rings shall be sized to meet federal transpiration safety regulations, and be located to minimizes exposure to damage	Accepted
5.19	Ground clearance shall be a minimum of 13 inches as defined by the latest SAE J1234 rules	Accepted
<b>6.0 HYDRAULIC SYSTEM</b>		Accepted
6.1	Hydraulic pump shall be a gear type with a minimum flow rate of 15 gallons per minute(GPM).	Accepted
6.2	System pressure (main relief valve) shall be set to 2800 - 3000 psi	Accepted
6.3	Hydraulic system shall be equipped with a spin on filter and if equipped with drain valve at the bottom	Accepted
6.4	All metal hydraulic tubing shall be pre-painted or treated to prevent corrosion	Accepted
6.5	Tubing shall be securely mounted to prevent damage or chaffing	Accepted
6.6	Hydraulic oil reservoir(s) shall be of metal construction	Accepted

6.7	Blade controls shall be on a single T-bar control	Accepted
6.8	Blade lift valve shall include a float position	Accepted
6.9	Blade lift and tilt cylinders must have steel hose and fittings guards	Accepted
6.10	All hoses routed to the blade and all exposed hydraulic fittings must be adequately guarded	Accepted
<b>7.0 ADDITIONAL VALVE SECTIONS FOR FIRE PLOW CONTROL</b>		Accepted
7.1	Three additional valve sections to be included: Two(2) valve sections with control levers easily accessible to the operator and one (1) valve section with out control lever shall be provided in addition to the valve sections required for dozer blade control. Specifications for each added spool section are as follows:	Accepted
	a. 4 way, 4 position spool with float, mounted closest to the operator, This spool must provide a float position with a detent to hold the spool in this position with operator assistance, all other spool positions are to be spring return to neutral. Float position must be engaged with the spool control lever in its most forward position. <b>NO work port relief valves are to be installed in this section.</b> Actuation controls for this section shall be provided and located in line with and just outboard of the T-bar blade control (closest to the operator)	Accepted
	b. 4 way, 3 position spool, all spool work positions are to be spring return to neutral. An adjustable work port relief, set at 2800 - 3000 psi, in the port pressurized when the valve control handle is pushed forward, and an adjustable, work port relief, set at 1800 - 2000 psi, in the port pressurized when the valve control handle is pulled back, shall be installed in this section. Actuation controls for this section shall be provided and located in line with and just out board of the valve specified in a above. (next section away from operator)	Accepted
	c. 4 way, 3 position spool, all spool work positions are to be spring return to neutral. An adjustable work port relief, set at 100 - 1500 psi, shall be installed in the work port activated when the valve spool is pulled out and an adjustable , 1500 - 3000 psi work port relief valve shall be installed in the work port pressurized when the valve section spool is pushed in. Actuation controls for this section shall be provided by the customer. One (1) control lever boot shall be provided with each unit ordered.	Accepted
<b>8.0 DOZER BLADE</b>		Accepted
8.1	Dozer blade shall be mounted on an all hydraulic controlled heavy "C-frame" shall be inboard of the tracks	Accepted
8.2	Power lift, angle, and tilt functions shall be provided for the blade	Accepted
8.3	Blade Specs	Accepted
	a. LT narrow blade: 90 inches	Accepted
	b. LT standard blade: 97 inch's	Accepted
	c. LGP Narrow Blade: 115 inches	Accepted
	d. LGP standard blade 124 inches	Accepted
8.4	Blade pitch shall be adjustable	Accepted
8.5	All necessary parts or special tools required to adjust the blade pitch shall be supplied with each unit	Accepted
8.6	Dozer blade shall be equipped with a structure extending fifteen (15) to eighteen (18) inches above the top of the blade intended to reduce debris from coming over the top of the blade	Accepted
	a. This structure shall be as wide as the grill at the top and consist of a 2"x4"x3/16' wall rectangular tube work framework with minimum of six (6), 1/2"x 2" flat bars installed vertically within the frame work.	Accepted
	b. This structure shall be an open frame work and the components of this structure shall be installed with the narrow edge forward to reduce the visual restriction to the operator.	Accepted
	c. The front face of this structure shall lean forward approximately five (5) degrees relative to the back of the surface of the blade	Accepted
<b>9.0 ROPS CANOPY &amp; OPERATOR PROTECTION</b>		Accepted
9.1	Cab height shall not exceed 108" overall (113" including grousers and strobe light)	Accepted
9.2	Cab shall be a fully enclosed environmental cab with sound suppression, isolation mounted	Accepted



<b>9.3</b>	ROPS (roller over protective structure) shall meet the specification requirements as per the latest issues of SAE J1040, J231, and fully certified	Accepted
<b>9.4</b>	Operator protective structures shall meet the requirements of the latest issue of SAE J1084, OSHA 29CFR 1910.266 and MIOSHA Part 51 R408.15144	Accepted
<b>9.5</b>	Operators station to be equipped with headliner, floor-mat, adjustable foot rests and adjustable armrests	Accepted
<b>9.6</b>	Cab windows shall be made of polycarbonate glazed LEXAN or equivalent	Accepted
<b>9.7</b>	All cab windows shall be tinted per the latest issue of SAE J674, and shall comply with ANSI Z-26.1	Accepted
<b>9.8</b>	Window molding shall be heat resistant	Accepted
<b>9.9</b>	The operators compartment shall be protected on all sides.	Accepted
	a. This protection shall include screening in all open areas of the standard operators compartment	Accepted
	b. Screens shall be constructed of woven or welded wire mesh	Accepted
	c. Each end of each wire shall be securely welded into position	Accepted
	d. All screens shall be painted black	Accepted
	e. The dozer manufacture or ROPS certifier must approve all additions to the ROPS	Accepted
<b>9.10</b>	Screening shall be installed such that it has minimal affect on the operators vision	Accepted
<b>9.11</b>	All screens shall be heavy duty with the wire diameter being one-fourth (1/4)inch	Accepted
<b>9.12</b>	The openings in the wire mesh shall be one and three-fourths (1-3/4) inches square except as noted below	Accepted
	a. All screens that are on the rear of the dozer shall have openings that are one (1- 3/4) inch square	Accepted
	b. All non rear facing screens that extend vertically down below the seat level of the operator's seat shall be made of material that has opening that are one (1) inch square in the bottom portion of the screen	Accepted
	c. The height of this bottom portion shall be defined as one-fourth (1/4) to one-third (1/3) of the distance between the floor of the operators compartment and the top of the ROPS, but no higher than the seat level of the operator's seat	Accepted
<b>9.13</b>	Entrance doors shall be provided on both sides of the operator's compartment	Accepted
<b>9.14</b>	Windows in the doors shall be protected by woven wire cloth screens on the outside of the windows	Accepted
	a. The screens shall be constructed of 1/4 inch diameter wire with square openings of 1-1/2 x1-1/2 to 1-3/4 x 1-3/4 inches and comply with the latest issue of SAE J1084	Accepted
<b>9.15</b>	Door latches shall be operable with one hand	Accepted
<b>9.16</b>	Doors shall be lockable	Accepted
<b>9.17</b>	Door latches shall be protected from inadvertent release or damage by brush, and shall be industrial quality suitable for intended use	Accepted
<b>9.18</b>	3 inch wide lap seat belt with metal to metal fasteners per latest issue of SAE J386 shall be provided	Accepted
<b>9.19</b>	Operators seat shall be a cloth covered, deluxe, suspension seat with arm rests that is adjustable for operators weight, leg/arm reach and back angle, adjustable lumbar support, and adjustable seatback extension	Accepted
<b>9.20</b>	The operators seat shall conform to the latest issue of SAE J899	Accepted
<b>9.21</b>	Front windshield shall be equipped with operator controlled wiper and washer system	Accepted
<b>9.22</b>	Washers system reservoir shall have a capacity of 1/2 gallon minimum capacity	Accepted
<b>9.23</b>	Unit is to be equipped with factory approved limb risers, one on each side	Accepted
<b>9.24</b>	If limb riser design is not direct from the manufacture, the design shall be approved by the manufacture and the purchaser	Accepted
<b>9.25</b>	Limb risers are to be isolation mounted	Accepted
<b>9.26</b>	Limb risers shall be of the straight line, point to point design (from a straight line from the outside, top, front corner of the radiator cowl/hood nose to the top, outside front corner of the ROPS	Accepted
<b>9.27</b>	Limb risers shall be constructed out of square tubing not less than three (3) inches square with a three -sixteenths (3/16) wall thickness, or round tubing or pipe not less than three and one-half (3-1/2) inches out side diameter and a three-sixteenth (3/16) inch wall thickness	Accepted

9.28	Operator's cab shall be equipped with a heating, ventilating, and air conditioning (HVAC) system	Accepted
9.29	The HVAC system shall be capable of maintaining the interior cab within a temperature range of 65-75 degrees F in sunny conditions with the outside ambient temperature between 20 and 100 degrees F	Accepted
9.30	No components of the HVAC system shall increase the overall height of the dozer	Accepted
9.31	Components of the HVAC system not inside the cab or compartment shall be protected from damage from trees, tree limbs and brush	Accepted
9.32	The fan for the HVAC system shall be capable of maintaining the interior cab air pressure at a minimum level of 50 Pa and a maximum level of Pa above the exterior atmospheric pressure, per the latest issue of SAE J1503	Accepted
9.33	All incoming air shall be filtered through a spark arresting screen	Accepted
9.34	A high efficiency particulate element (HEPA) or other approved particulate filter media, and an active carbon element	Accepted
9.35	The particulate filter media shall have an efficiency rating of 93 DOP at 0.5 micron, the media material shall be fiberglass	Accepted
9.36	The active carbon element(s) shall have an activity rating of 60 Minimum	Accepted
9.37	Any externally mounted filters shall be protected from bush and weather damage	Accepted
9.38	In addition to the HVAC fan an operator controlled fan for circulating the air inside the cab shall be installed, this fan shall be a Red Dot model no. 73R9063 or approved equivalent	Accepted
<b>10.0 ELECTRICAL SYSTEM</b>		Accepted
10.1	Electrical system shall be 12 volt and shall meet the requirements of the latest issue of SAE J821	Accepted
10.2	Alternator shall have a minimum capacity of at least 90 amps	Accepted
10.3	Dual 12 volt storage batteries(low maintenance design) with a minimum of 190 minutes reserve capacity and 950 CCA each	Accepted
10.4	A manual master electrical system disconnect switch shall be provided	Accepted
10.5	Lighting	Accepted
	a. Two (2) LED work lights mounted on the grill	Accepted
	b. Two (2) LED work lights mounted overhead, facing forward, angled outward	Accepted
	c. Two (2) LED work lights mounted inside the rear screen facing rearward	Accepted
	d. All lights to be mounted to reduce glare or reflection back on the operator	Accepted
	e. All lights to be switched indecently and readily accessible from the operators station, and clearly labeled	Accepted
	f. All lights to be wired to independent circuit breakers	Accepted
10.6	Engine starter shall be 12 volts	Accepted
10.7	Electronic monitoring system shall be provided to monitor all internal operating systems to include the following:	Accepted
	a. Audible and/or visible alarms for the charging system, hydraulic and transmission filter restrictions', engine coolant tempter, engine oil pressure, air cleaner restriction, and seat belt.	Accepted
10.8	Gauges shall be provided for the following:	Accepted
	a. Engine oil pressure	Accepted
	b. Engine coolant tempter	Accepted
	c. Electric hour meter activated by engine oil pressure or alternator operation	Accepted
	e. Fuel level	Accepted
10.9	Operator controlled interior lighting, that will illuminate the entire cab	Accepted
10.10	12 Volt power port with a minimum capacity of 20 amps labeled to show the rated amp capacity	Accepted
10.11	The dozer will be equipped with one adequately guarded white strobe light	Accepted
10.12	Strobe light will be mounted high on the unit and near the rear of the operators compartment	Accepted
10.13	Strobe light shall be directly visible 360 degrees around the dozer	Accepted
10.14	Strobe light shall be directly visible from any position overhead and/or by aircraft working a fire	Accepted
10.15	The strobe light shall have a non-hypnotic flash pattern	Accepted

10.16	Strobe light must be wired to operate any time the ignition key is in the on position, with no provision to turn it off	Accepted
10.17	Strobe light is to be on its own circuit with a circuit breaker for protection	Accepted
<b>11.0 WEIGHTS &amp; DIMENSIONS</b>		Accepted
11.1	The SAE operating weight shall not exceed 20,622lbs, with all of the above mentioned attachments installed	Accepted
11.2	Overall machine height(as defined by SAE J1234) shall not exceed 113 inches with all of the above mentioned attachments installed	Accepted
11.3	Overall machine width less the front blade shall be no more than 89 inches	Accepted
<b>12.0 SAFETY ITEMS</b>		Accepted
12.1	Tractor shall be equipped with a back-up alarm, per the latest issue of SAE J994, Type A 12 volt 112-db (A)	Accepted
12.2	Tractor shall be equipped with a warning horn, per the latest issue of SAE J1446 and J1105	Accepted
12.3	Service, secondary and parking brake systems must meet the requirements of the latest issue of ISO 10265	Accepted
12.4	Tractor shall be equipped with self-cleaning, anti-skid surfaces and hand holds as needed for safely mounting and dismounting the tractor, and for all maintenance operations normally performed daily, per the latest issue of SAE J185	Accepted
12.5	Grab handles shall be provided at each rear corner of the tractor	Accepted
12.6	Tractor shall be equipped with a convex mirror, mounted inside the operators compartment	Accepted
12.7	Tractor shall be equipped with one (1) ten pound BC dry chemical fire extinguisher per the requirements of the latest issue of SAE J1212	Accepted
12.8	Tractor must conform to the latest issue of SAE J1212, fire prevention on forestry equipment	Accepted
12.9	Tractor shall be equipped with provisions to prevent unauthorized starting and movement of the machine per the latest issue of SAE J1083	Accepted
12.10	Safety signs and labels shall meet the requirements of the latest issue of SAE J115	Accepted
<b>13.0 PAINT</b>		Accepted
13.1	Except as noted below, the visible exterior of the tractor is to be painted with an Acrylic enamel or better paint.	Accepted
13.2	Color to be: Navistar 2023 Carnival Red T-1y12, KX - 2y 186 or approved equivalent	Accepted
13.3	Operator brush screens and limb risers to be painted black	Accepted
13.4	Hood is to be painted a non-glare gray or charcoal color	Accepted
<b>14.0 SPECIAL CONDITIONS</b>		Accepted
14.1	In addition to the equipment specified, the tractor shall be equipped with all standard equipment provided by the manufacture for commercial or industrial use as specified in literature published by the manufacture	Accepted
14.2	Tractor shall comply with all federal and state safety regulations and standards	Accepted
14.3	Supplier shall be responsible for delivering the tractor properly serviced, clean, and in first class operating condition.	Accepted
14.4	Pre-delivery service shall include:	Accepted
	a. Complete lubrication	Accepted
	b. Verification of proper engine settings	Accepted
	c. Adjust tracks to proper tension	Accepted
	d. Check and fill all fluids	Accepted
14.5	Each unit shall come with four(4) parts manuals	Accepted
14.6	Each unit shall come with four (4) operators manuals	Accepted
14.7	Each unit shall come with three (3) service/technical manuals	Accepted
14.8	After delivery and acceptance of units, training shall be provided for 8-10 Michigan DNR heavy equipment mechanics at a location in Michigan	Accepted
14.9	Training shall include but not be limited to system functions/operations and diagnostics for the electrical, hydrostatic, mechanical drive train, engine, and hydraulics systems for the model(s) ordered	Accepted



<b>14.10</b>	Michigan DNR mechanics shall be able to adjust, calibrate, diagnose, rebuild, repair and test the model(s) specified above upon completion of the training	Accepted
<b>14.11</b>	Three (3) copies of any manuals, software, special tooling, etc.. required to perform the tasks covered in this training shall be provided	Accepted
<b>14.12</b>	The Manufactures warranty must be a minimum of twelve months (12), full coverage.	Accepted
<b>14.13</b>	This unit will require 6 to 9 months to outfit for its intended use. Warranty shall begin when this unit is placed in to service as determined by the user, Dealer shall provide the means for user to contact manufacture to begin warranty	Accepted
<b>14.14</b>	Copies of the manufactures warranty and certificate of origin shall be provided for each unit ordered, with the invoice	Accepted
<b>14.15</b>	Tractor out fitting shall be performed at an authorized facility, approved by both the tractor manufacture and the Michigan Department of Natural Resources	Accepted
<b>CRAWLER DOZER (30HP &amp; UP)</b>		
<b>Make Offered:</b>		John Deere
<b>Model Offered:</b>		450K/650K

33. - Spec. No. 30-00LT23		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
LIGHT TOWER, TRAILER MOUNTED DIESEL ENGINE		
1.1	Total weight: 1550 pounds	Accepted
1.2	Over all length: 176 inches	Accepted
1.3	Transport height: 66 inches	Accepted
1.4	Overall width: 47 inches	Accepted
1.5	Max. Tower height: 30 Feet	Accepted
1.6	Wind stability of 65 mph at full height	Accepted
1.7	Ground clearance: 8 inches	Accepted
1.8	Tire Size: 13 inches	Accepted
1.9	Winch Capacity: 1,500 pounds	Accepted
1.10	Winch wire rope: 3/16	Accepted
1.11	Fuel tank capacity: 30 gallons	Accepted
1.12	Engine run time per fuel tank 3/4 load: 64 hours	Accepted
1.13	Engine type: Diesel	Accepted
1.14	Engine HP: 12 min	Accepted
1.15	Engine cylinders: 3	Accepted
1.16	Engine RPM: 1800	Accepted
1.17	Engine cooling: liquid	Accepted
1.18	Engine auto shut down: low oil pressure / high temp	Accepted
1.19	Maximum generator output: 6,000 watts	Accepted
1.20	Continuous generator output: 6,000 watts	Accepted
1.21	Voltage: 120/240	Accepted
1.22	Amps at 120 volts: 50	Accepted
1.23	Amps at 240Volts: 25	Accepted
1.24	Receptacles: 2, 120 volt GFCI protected	Accepted
1.25	Flood Lights: (4) Metal Halide	Accepted
1.26	Lumens: 440,000	Accepted
1.27	Light coverage: 5 to 7 Acres	Accepted
1.28	Sound level at 23 feet: 73 db Max.	Accepted
1.29	Trailer hitch: 2 inch ball, adjustable height, with safety chains with spring loaded safety hooks	Accepted
1.30	Trailer coupler: spring loaded bull dog type	Accepted
1.31	Trailer Lights: DOT approved tail, stop and turn LED type	Accepted

<b>1.32</b>	Per Schedule E - Trailer Wiring Diagram, trailer connector shall be 7-way round pin Berg type , mounted at rear of frame, wired for turn signals independent of stop, compatible with trailers that have amber or side turn lamps, provided and installed by vendor	Accepted
<b>1.33</b>	All wiring shall be weather proof, no scotch locks will be accepted	Accepted
<b>1.34</b>	Trailer to have rear mounted screw adjustable rear out riggers and tounge jack	Accepted
<b>1.35</b>	Housing shall consist of a roof or head along with hinged side doors which shall lock in place	Accepted
<b>1.36</b>	Housing shall have access panels for servicing	Accepted
<b>1.37</b>	Engine control panel shall include hour meter, circuit breakers, light switches and key start	Accepted
<b>1.38</b>	Paint shall be manufacturer's standard color	Accepted
<b>1.39</b>	2 - Service manual	Accepted
<b>1.40</b>	2- Parts manual	Accepted
<b>LIGHT TOWER, TRAILER MOUNTED DIESEL ENGINE</b>		
<b>Make Offered:</b>		<b>GENERAC</b>
<b>Model Offered:</b>		<b>G4-ECO</b>

34. - Spec. No. C38-0501D-23		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
FORKLIFT, DIESEL FUELED, 8,000 POUND CAPACITY		
1.1	Engine shall be:	Accepted
	a. Diesel fueled	Accepted
	b. 4 cylinder	Accepted
	c. 100hp minimum	Accepted
	d. water cooled	Accepted
1.2	Electrical:	Accepted
	Forklifts shall have:	Accepted
	a. Headlights	Accepted
	b. Turn signals, front and rear	Accepted
	c. Back up alarm of 95dba minimum	Accepted
	d. Keyed ignition switch	Accepted
	e. Hour meter to operate only when engine is running	Accepted
	f. Horn	Accepted
	g. Fuel gauge	Accepted
	h. Coolant temperature gauge	Accepted
	i. Low oil pressure warning light	Accepted
	j. Battery charge indicator light	Accepted
	k. Tail lights	Accepted
	l. Back up lights	Accepted
	m. Transmission temperature gauge	Accepted
	n. Anti restart ignition	Accepted
	o. Strobe lights	Accepted
	p. Rear work lighting package	Accepted
1.3	Travel speed shall be within the range of 9 to 11 mph	Accepted
1.4	Lift speed shall range from 114 to 120 fpm minimum	Accepted
1.5	Forklift weight shall be 12,500 pound minimum	Accepted
1.6	Rated load capacity at 24 inch load center shall be 8,000 pounds minimum	Accepted
1.7	Mast height lowered shall be approximately 86 inches	Accepted
1.8	High load backrest shall be 48 inches high minimum	Accepted
1.9	Mast shall be three (3) stage, wide view, full type	Accepted
1.10	Maximum mast height at rated load Shall be 183 inches minimum	Accepted
1.11	Mast shall have a free lift of 5.5 inches	Accepted

1.12	Mast tilting angles shall be a minimum 6° Forward and 10° rearward	Accepted
1.13	Side-shift attachment with 4 inch travel in each direction and a total of 8 inches travel minimum shall be provided	Accepted
1.14	Minimum outside turning radius shall be approximately 94 inches	Accepted
1.15	Forks shall be a minimum:	Accepted
	a. 48 inches long	Accepted
	b. 4.9 inches wide	Accepted
	c. 1-¾ inches thick	Accepted
	d. adjustable ,full width of carriage	Accepted
1.16	Tires shall be pneumatic type sizes:	Accepted
	a. drive - 250 x 15 - 20 Ply	Accepted
	b. steer – 7.00 x 12 - 14 Ply	Accepted
1.17	Fenders: Extended to cover dual drive tires (dual tires only)	Accepted
1.18	Carriage: 57 inches wide	Accepted
1.19	Ground clearance shall be 7 inch minimum	Accepted
1.20	Wheelbase shall be 67 inches maximum	Accepted
1.21	Service brakes shall be foot operated hydraulic type	Accepted
1.22	Parking brakes shall be hand operated	Accepted
1.23	Overhead guard height shall be approximately 86 inches	Accepted
1.24	Operator's seat shall be padded vinyl with seat belt	Accepted
1.25	Operator's compartment shall be full-floating hydraulic suspension type	Accepted
1.26	Draw bar pin shall be furnished	Accepted
1.27	Draw bar pull weight shall be 4,600 pound minimum	Accepted
1.28	Forklift shall have a hydraulic oil cooler	Accepted
1.29	Forklift shall have fully hydrostatic power steering	Accepted
1.30	Steering column shall be tilting	Accepted
1.31	Forklift shall have load check valve	Accepted
1.32	Forklifts shall be painted manufacturers standard color	Accepted
1.33	Transmission shall:	Accepted
	a. be "power shift" type	Accepted
	b. have an in-line 125 mesh and 35 micron oil filter and oil cooler system	Accepted
	c. have an inching pedal	Accepted
1.34	2 - Parts manual	Accepted
1.35	2- Service manual	Accepted
1.36	2 - Safety & training video	Accepted
<b>FORKLIFT, DIESEL, 8,000 POUND CAPACITY</b>		
<b>Make Offered:</b>		Toyota
<b>Model Offered:</b>		8FD35U

38. - Specification # C10-034AT.22		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
Aerial Tower, Non-Insulated Boom 34 Foot Working Height and Utility Body		
All items specified and furnished by the Contractor shall be new of the latest model in current production and shall include all standard features normally offered with these		
	Cab & Chassis - supplied by MDOT	Make and Model
	Cab & Chassis will be 2024 Ford F 450 DRW, Crew Cab, 4x4	No Installation Aerial Tower comes with cab and chassis
	GVWR will be 16,500 pounds	No Installation Aerial Tower comes with cab and chassis
	Torqshift six-speed automatic transmission with a live PTO	No Installation Aerial Tower comes with cab and chassis

	Engine will be a 7.3 liter V8 gas engine	No Installation Aerial Tower comes with cab and chassis
	Cab to axle length will be 84 inches	No Installation Aerial Tower comes with cab and chassis
	Unit shall be full of fuel when picked up by vendor, and shall be returned to MDOT in the same manner	No Installation Aerial Tower comes with cab and chassis
	<b>1.0 Base Specifications:</b>	
1.1	All holes in cab and chassis frame rails shall be drilled or punched.	Accepted
1.2	<b>There shall be no flame cutting or welding on the frame side rails</b>	Accepted
1.3	Aerial tower shall have all exposed metal surfaces, except internal boom extensions, finish coated Omaha Orange DuPont Imron #43106-X or equal	Accepted
1.4	Utility body shall have all bare metal surfaces pre-cleaned and prepped prior to applying a compatible red oxide or zinc chromate primer	Accepted
1.5	When painting continues over a manufacture's standard paint, metal prepping and primer may be omitted, providing an acceptable bond can be achieved	Accepted
1.6	Utility body shall be painted Omaha Orange, DuPont Imron #43106-X or equal	Accepted
1.7	All components mounted below frame rails shall be painted black	Accepted
1.8	Cab to end frame length on all body installations shall be the same length as the body being mounted, plus the length of any setback	Accepted
1.9	All items removed from the cab and chassis by body installer (frame ends, fuel tanks mirrors, etc.) remain the property of the State of Michigan and are to be returned with the truck	Accepted
1.10	All wires passing through holes in metal or non-metal wearing surfaces, which could cause wear of the insulation, shall be adequately protected by rubber or plastic grommets, and/or non-metal conduit.	Accepted
1.11	Ends of all wires shall be adequately anchored to prevent loosening	Accepted
1.12	All electrical connections shall be soldered and enclosed in heat shrink or in water tight junction blocks	Accepted
1.13	Scotch locks and wire nuts are not acceptable	Accepted
1.14	All wire connections from the utility body and tower to the chassis must be connected to the body up fit module if provided	Accepted
1.15	Body vendor will install body, mud flaps, lights as necessary	Accepted
1.16	Mud flaps will be plain with no advertising on either side	Accepted
1.17	No frame extensions will be accepted	Accepted
	<b>Aerial Manlift:</b>	Accepted
1.18	Tower will have a 34 foot working height	Accepted
1.19	Bucket will have a 350 pound capacity	Accepted
1.20	Main boom shall be constructed of 6 inch x 8 inch rectangular high strength steel	Accepted
1.21	The hose carrier system shall be a multi-link assembly with space to carry hoses and wiring to operate above minimum bend requirements	Accepted
1.22	Minimum travel of the main boom shall allow the operator to place the basket on the ground to reach the rear tail-shelf and to allow access to the compartments of the body without leaving the bucket	Accepted
1.23	Upper and lower support wear pads shall be 1/4 inch thick UHMW polyethylene	Accepted
1.24	Side support wear pads shall be threaded adjustable wear pads made of nylon	Accepted
1.25	Wear pads shall be replaceable without disassembly of boom sections	Accepted
1.26	Telescoping inner boom shall be made from 5 inch x 7 inch aluminum housed within the outer boom	Accepted
1.27	The inner wear pads shall be of threaded adjustable nylon	Accepted
1.28	A hydraulic cylinder shall accomplish the telescopic action of the extension boom, The use of cables or chains to extend or retract is not acceptable	Accepted
1.29	Pedestal shall be a structural box shaped and include the hydraulic components	Accepted

1.30	An adequate opening shall be provided by a door or cover to allow access to internal components	Accepted
1.31	A hydraulic reservoir fill indicator shall be clearly visible and labeled to indicate the level of the oil	Accepted
1.32	The pedestal shall be machined flat for installation of the shear ball rotation bearing	Accepted
1.33	The pedestal structure must be of a single piece design.	Accepted
1.34	Turntable shall be designed to resist all torque loads	Accepted
1.35	A shear ball rotation bearing shall be required	Accepted
1.36	Bearing races shall be heat treated and sealed to prevent entry of dirt and moisture and be equipped with readily accessible zerk fittings	Accepted
1.37	Rotation shall be driven hydraulically by a worm and spur gear	Accepted
1.38	A means of adjustment shall be included to provide for proper gear backlash	Accepted
1.39	Rotation system shall be self locking in the event of a hydraulic system failure	Accepted
1.40	The input shaft shall be machine with an extended hexagon design to allow for manual rotation	Accepted
1.41	Rotation shall be continuous in either direction	Accepted
1.42	A rotation manifold shall provide for hydraulic functions	Accepted
1.43	Each port shall be separated by O-rings	Accepted
1.44	The inner core of the manifold should be attached to the turn table and allow for maintenance of all hoses without removing guards for service or inspection	Accepted
1.45	The outer case shall be attached securely to the pedestal to prevent rotation	Accepted
1.46	Sub-frame shall be secured to the vertical section of the vehicle frame and provide adequate strength to withstand the load of the aerial lift	Accepted
1.47	A boom support shall be provided to support the aerial lift booms in the transport position	Accepted
1.48	An over the center clamping device shall secure the booms to the support for road transport	Accepted
1.49	The hydraulic system shall be designed as an open center hydraulic system	Accepted
1.50	All hydraulic components including the 7 gallon hydraulic reservoir shall be housed within the aerial lift pedestal	Accepted
1.51	The reservoir shall be equipped with a drain plug, filler cap, air filter vent, sight level gauge, baffle system, and shut off valve at the outlet	Accepted
1.52	A 10 micron return filter shall be installed as close to the reservoir as possible and must be accessible for maintenance	Accepted
1.53	A 100 micron suction strainer shall be installed on the inlet to the pump , with a shut-off ball valve for ease of service	Accepted
1.54	Hydraulic tool circuits will be provided at the basket for operator use	Accepted
1.55	A pressure relief valve must be built into the system to prevent overload and set at 2,000 psi	Accepted
1.56	Aerial lift shall be equipped with bucket and turntable mounted control stations	Accepted
1.57	The controls shall use full pressure proportional hydraulic valves	Accepted
1.58	When either control is released, boom movement shall stop and oil flow shall be redirected to the reservoir	Accepted
1.59	Bucket mounted control station shall permit the operator to control all boom movements, chassis start and stop controls, and emergency backup functions	Accepted
1.60	The turntable mounted lower control valve shall override the upper control valve and shall be capable of maintaining override of the upper control valve while unattended	Accepted
1.61	The aerial lift shall be powered by a hydraulic pump which produces up to 2 gpm	Accepted
1.62	The hydraulic system shall also include a 12 volt DC emergency backup system with a motor and pump	Accepted
1.63	All hydraulic hoses shall be placed within a cable track located inside of the main boom and be protected against abrasion, twisting and normal wear	Accepted
1.64	Hydraulic hoses shall have a 4 to 1 safety factor from operating to burst pressure	Accepted
1.65	Hydraulic fluid shall be "Glacial Blue Type" (Meets MilSpec 5606)	Accepted
1.66	Hydraulic tank will be labeled "Glacial Blue Type"	Accepted
1.67	Main boom will have a double action lift cylinder with a single acting holding valve mounted on the cylinder base	Accepted



1.68	Extension boom will have a double action cylinder with a double acting holding valve	Accepted
1.69	Hydraulic cylinders shall have welded and threaded end caps for maximum safety	Accepted
1.70	Piston shafts shall be highly polished chrome finish	Accepted
1.71	Walk in bucket shall be 24 inch x 30 inch x 42 inch, molded fiberglass with door that opens to curb side	Accepted
1.72	Bucket shall be side mounted	Accepted
1.73	The bucket shall be automatically leveled, as the main boom rises	Accepted
1.74	A bucket cover shall be provided that completely covers the top molded lip of a standard 24 inch x 30 inch x 42 inch bucket	Accepted
1.75	The cover shall be of a good quality nylon material and shall include an elastic cord or band to keep the cover secured to the bucket	Accepted
1.76	Work tray with mounting will be provided	Accepted
1.77	A sub-frame attached to the frame of the truck shall secure the outriggers and the aerial lift to form one integral mount	Accepted
1.78	Outriggers shall have a minimum vertical travel clearance of 14 inches	Accepted
1.79	H-Frame outriggers with 2 x 8 cross tie	Accepted
1.80	Hydraulic activated outriggers shall be attached to the frame of the chassis at the front of the body	Accepted
1.81	The hydraulic cylinders shall be double action, heavy-duty welded with threaded end caps for maximum safety	Accepted
1.82	The pistons shall be made of aluminum with square bi-directional seals made of polyurethane material and a highly polished chrome finish shaft	Accepted
1.83	Holding valves shall be attached to each cylinder to prevent creep and to lock cylinders in case of line failure	Accepted
1.84	A manual diverter valve directs flow from the lift to the outriggers	Accepted
1.85	Controls for each outrigger cylinder will be supplied at the rear of the chassis so that the outriggers can be seen while in operation	Accepted
1.86	95 dba audible alarm shall be activated when outriggers are in motion, either in or out	Accepted
1.87	An outrigger/boom interlock system shall prevent lift operation until the outriggers contacts the ground and outrigger retraction before aerial lift is properly stowed	Accepted
1.88	Outrigger indicator light on dash to indicate outriggers are not stowed for transport	Accepted
1.89	Hydraulic system shall be driven by power take off(PTO) to be a Chelsea 277 hot shift PTO with overspeed control, or equivalent	Accepted
1.90	PTO shall be wired to only allow it to engage if parking brakes are set	Accepted
1.91	PTO control shall be dash mounted electrical switch	Accepted
1.92	PTO engaged light will be provide in the cab	Accepted
1.93	No part of the boom shall extend past the tail-shelf in the stowed position	Accepted
1.94	All exposed underbody valving shall be enclosed in a box to prevent corrosion	Accepted
1.95	A slope meter shall be furnished and mounted in the dash for the truck	Accepted
1.96	Slope meters shall be furnished and mounted on the side and rear of the truck	Accepted
1.97	A "Boom Raised" light will be mounted in the dash to illuminate when the boom is not in the stowed position	Accepted
1.98	"Boom raised" light shall be activated by an epoxy sealed, magnetic proximity switch, Grainger part # 6C834 or Omron type TL-W20ME2 12V - 24V No Exceptions	Accepted
1.99	A transport height placard indicating the overall stowed height of the completed vehicle shall be mounted on the dash in clear view of the operator	Accepted
2.00	Completed unit shall be tested and inspected before delivery to MDOT. A dated inspection sticker shall be installed inside rear window of truck	Accepted
<b>Utility Body</b>		
2.01	The body shall be designed for a chassis with a cab to axle dimension of approximately 84 inches	No Utility Body
2.02	Body shall be fiberglass or approved equal	No Utility Body
2.03	Utility body dimension shall be approximately:	No Utility Body
2.04	Overall width - 94 inches	No Utility Body
2.05	Load space width - 54 inches	No Utility Body
2.06	Pack height - 42 inches	No Utility Body



2.07	Pack depth - 20 inches	No Utility Body
2.08	Mounting height - 25 inches	No Utility Body
2.09	A drawing of the proposed body shall be submitted with the bid	No Utility Body
2.10	Aluminum understructure	No Utility Body
2.11	Aluminum tread floor	No Utility Body
2.12	Smooth aluminum bulkhead	No Utility Body
2.13	Aluminum tailskirt	No Utility Body
2.14	Aluminum treadbright tail shelf	No Utility Body
2.15	Removable wheel well panels will be provided	No Utility Body
2.16	Steel rear mounting system shall be used	No Utility Body
2.17	Non-skid shall be provided on all compartment tops	No Utility Body
2.18	Clear vinyl rock guards shall be provided	No Utility Body
2.19	Black plastic fuel bezel(s) shall be provided. (Two required if chassis is diesel powered)	No Utility Body
2.20	Automotive quality bulb type door seals shall be furnished on all compartment doors	No Utility Body
2.21	Recessed door jambs will be provided	No Utility Body
2.22	Recessed door seals will be provided	No Utility Body
2.23	Doors will be one piece molded fiberglass	No Utility Body
2.24	Automotive finish both sides	No Utility Body
2.25	Latches will be stainless steel rotary type	No Utility Body
2.26	All locks will be keyed alike	No Utility Body
2.27	Type 304 stainless steel hardware will be provided	No Utility Body
2.28	Type 304 stainless steel door hinges will be provided	No Utility Body
2.29	Vinyl covered S/S cable door stops	No Utility Body
2.30	Master locking system will be provided on all compartments with lock provisions at rear of side cases	No Utility Body
2.31	Inside of all compartments shall be white	No Utility Body
2.32	All compartments will have white LED strip lighting with a master switch and a pilot light in the cab, fused separately	No Utility Body
2.33	Flow through ventilation system required for all compartments	No Utility Body
2.34	Street side front compartment will have one adjustable shelf with 2 inch divider pack with 4 fiberglass dividers	No Utility Body
2.35	Street side front compartment #2 will have two adjustable shelves with 2 inch divider pack with 4 fiberglass dividers	No Utility Body
2.36	Street side horizontal compartment will have one adjustable shelf	No Utility Body
2.37	Street side rear compartment will have two adjustable shelves	No Utility Body
2.38	Curb side front compartment will have two adjustable shelves and a square door vent	No Utility Body
2.39	Curb side front compartment #2 will have two adjustable shelves with 2 inch divider pack with 4 fiberglass dividers	No Utility Body
2.40	Curb side horizontal compartment will have one adjustable shelf with 2 inch divider pack with 4 fiberglass dividers	No Utility Body
2.41	Curb side rear compartment will have two adjustable shelves	No Utility Body
2.42	PVC style shovel rack/holder location T.B.D.	No Utility Body
2.43	24 inch stair access will be provided	No Utility Body
2.44	3000 watt inverter wired to boom tip and curbside rear, both shall be GFCI protected	No Utility Body
2.45	Wheel chocks, one set, rubber, with aluminum holders mounted under utility body	No Utility Body
2.46	Composite plastic (or aluminum) outrigger pads, two, (2) 24" X 24" X 1" with two (2) aluminum holders mounted under the body	No Utility Body
2.47	Triangular reflector kit	No Utility Body
2.48	10lb fire extinguisher with heavy duty bracket installed	No Utility Body
2.49	<b>Cameras with sound option:</b>	
2.50	Camera shall be installed on the rear of vehicle to provide wide angle viewing	Accepted
2.51	Camera shall be installed on the passenger side of vehicle to provide wide angle viewing	Accepted
2.52	Camera shall be installed in the utility bed of the vehicle to provide wide angle viewing for boom location	No Utility Body

<b>2.53</b>	Camera display shall be mounted so driver can view it while in the drivers seat, and shall be able to switch between cameras	Accepted
<b>2.54</b>	Rear bumper will be step type with recess in center for trailer hitch constructed of 12 gauge tread plate	Accepted
<b>2.55</b>	Trailer hitch shall be receiver type, class IV	Accepted
<b>2.56</b>	Two 3/4 inch D-rings installed for trailer safety chains	Accepted
<b>2.57</b>	Eyelet for trailer breakaway cables	Accepted
<b>2.58</b>	Per MDOT supplied - Trailer Wiring Diagram, trailer connector shall be 7-way round pin Berg type , mounted at rear of frame, wired for turn signals independent of stop, compatible with trailers that have amber or side turn lamps, provided and installed by vendor	Accepted
<b>2.59</b>	Spare tire will be mounted next to the boom on the street side	Accepted
<b>2.60</b>	Side mounted ladder rack mounted curb side	Accepted
<b>2.61</b>	Electric moisture resistant back-up alarm, 95 dba sound level shall be provided	Accepted
<b>2.62</b>	All exterior lights will be LED type and conform with FMVSS 108 standards and shall include:	Accepted
<b>a</b>	Clearance	Accepted
<b>b</b>	Stop	Accepted
<b>c</b>	Tail	Accepted
<b>d</b>	Turn	Accepted
<b>e</b>	Back up	Accepted
	<b>Electrical, Lighting:</b>	
<b>2.90</b>	Electric moisture resistant back -up alarm, 95 dba sound level shall be provided	Accepted
<b>2.91</b>	All compartments will have white LED strip lighting with a master switch and a pilot light in the cab, fused separately	Accepted
<b>2.92</b>	Light channel installed at rear of unit	Accepted
<b>2.93</b>	All exterior lights on body will be LED type and conform with Motor Vehicle laws of the State of Michigan and include	Accepted
<b>a</b>	Clearance	Accepted
<b>b</b>	Stop	Accepted
<b>c</b>	Tail	Accepted
<b>d</b>	Turn	Accepted
<b>e</b>	Back up	Accepted
	<b>Work/strobe light type and placement:</b>	
<b>2.94</b>	All strobes lights are to be a combination Amber/Green light. All strobe lights to be synchronized together. Flash pattern to be amber quad fast flash, with a single green slow flash	Accepted
<b>2.95</b>	Four (4) L.E.D. corner strobe lighting to truck. Two (2) in rear light channel and Two (2) in front grille area. To have separate master switch located in chassis cab. Soundoff # EMPC2STS4 - LED or equivalent	Accepted
<b>2.96</b>	Two (2) L.E.D strobe lights mounted on both sides of the body, Install on same master on/off switch as the 4 corner strobes. Soundoff # EMPC2STS4 - LED or equivalent	Accepted
<b>2.97</b>	Two (2) mini light bars to light support bar on both Curb side and Street side of boom rest. Lights to be visible from front, rear and sides of truck. To have separate on/off master switch located in chassis cab. Soundoff # ENRMB000EN L.E.D. mini light bar or equivalent.	Accepted
<b>2.98</b>	Four (4) Whelen L.E.D perimeter lights. Two mounted just under mini light bars on both curb side and street side mounted all the way to the outer edge to eliminate shadows and two mounted at rear just under the tail shelf on both the curb side and street side . to have separate master switch located in chassis cab. Whelen # PELCB perimeter lights or equivalent.	Accepted
<b>2.99</b>	Two (2) Reverse/Work L.E.D Flood lights in rear chassis frame rails. To automatically come on when chassis is in reverse and to have separate on/off switch located in chassis cab. Whelen # PFBS6 work lights or equivalent	Accepted

<b>3.00</b>	Two (2) Work Lights L.E.D. Flood lights. One (1) mounted on light support bar facing cargo area. One (1) mounted at rear facing tail shelf area. To have separate master on/off switch located in Chassis Cab. Whelen # PFBS6 work lights or equivalent	Accepted
<b>3.01</b>	One (1) Go-Light mounted just below upper strobe light on Curb Side with WIRELESS chassis control and WIRELESS handheld control. Go-light Model # 20074 or equivalent	Accepted
	<b>Miscellaneous:</b>	
<b>3.02</b>	A transport height placard indicating the overall stowed height of the completed vehicle shall be mounted on the dash in clear view of the operator	Accepted
<b>3.03</b>	Dielectric test unit according to ANSI requirements	Accepted
<b>3.04</b>	Stability test unit according to ANSI requirements	Accepted
<b>3.05</b>	A dated inspection sticker shall be installed inside rear window of truck	Accepted
<b>3.06</b>	Manufactures standard warranty	Accepted
<b>3.07</b>	Provide 8 hours of operator training, at a time and location determined by the State after unit has been accepted and is ready to be placed into service	Accepted
<b>3.08</b>	2 - Parts manual	Accepted
<b>3.09</b>	2 - Service manual	Accepted
<b>3.10</b>	2 - Operators manual	Accepted
<b>3.11</b>	1 - Safety & training video	Accepted
<b>AERIAL TOWER, NON-INSULATED BOOM 34 FOOT WORKING HEIGHT AND UTILITY BODY</b>		
	<b>Make Offered:</b>	Chevrolet
	<b>Model Offered:</b>	3500 / UR3410

39. - Specification # C10-045AT.22		Rental Bidder Response (Indicate acceptance and/or provide alternate) Rental
Aerial Tower, Insulated Boom 45 Foot Working Height and Utility Body with Side Access		
All items specified and furnished by the Contractor shall be new of the latest model in current production and shall include all standard features normally offered with these models		
	Cab & Chassis - supplied by MDOT	Make and Model
	Cab & Chassis will be 2024 Freightliner M2-106 extended cab 4x2	No Installation Aerial Tower comes with cab and chassis
	GVWR will be 27,500 pounds	No Installation Aerial Tower comes with cab and chassis
	Front GAWR will be 10,000 pounds	No Installation Aerial Tower comes with cab and chassis
	Rear GAWR will be 17,500 pounds	No Installation Aerial Tower comes with cab and chassis
	Wheel base will be 177 inches	No Installation Aerial Tower comes with cab and chassis
	Cab to axle length will be 83.9 inches	No Installation Aerial Tower comes with cab and chassis
	Axle to end frame will be 89 inches	No Installation Aerial Tower comes with cab and chassis
	Transmission will be an Allison 3500RDS_P with PTO provision	No Installation Aerial Tower comes with cab and chassis

	Engine will be a Detroit Diesel 9.9 liter rated @ 260hp	No Installation Aerial Tower comes with cab and chassis
	Unit shall be full of fuel when picked up by vendor, and shall be returned to MDOT in the same manner	No Installation Aerial Tower comes with cab and chassis
<b>1.0</b>	<b>Base Specifications:</b>	
<b>1.1</b>	All holes in cab and chassis frame rails shall be drilled or punched.	Accepted
<b>1.2</b>	<b>There shall be no flame cutting or welding on the frame side rails</b>	Accepted
<b>1.3</b>	Aerial tower shall have all exposed metal surfaces, except internal boom extensions, finish coated Omaha Orange DuPont Imron #43106-X or equal	Accepted
<b>1.4</b>	Utility body shall have all bare metal surfaces pre-cleaned and prepped prior to applying a compatible red oxide or zinc chromate primer	Accepted
<b>1.5</b>	When painting continues over a manufacture's standard paint, metal prepping and primer may be omitted, providing an acceptable bond can be achieved	Accepted
<b>1.6</b>	Utility body shall be painted Omaha Orange, DuPont Imron #43106-X or equal	Accepted
<b>1.7</b>	All components mounted below frame rails shall be painted black	Accepted
<b>1.8</b>	Cab to end frame length on all body installations shall be the same length as the body being mounted, plus the length of any setback	Accepted
<b>1.9</b>	All items removed from the cab and chassis by body installer (frame ends, fuel tanks mirrors, etc.) remain the property of the State of Michigan and are to be returned with the truck	Accepted
<b>1.10</b>	All wires passing through holes in metal or non-metal wearing surfaces, which could cause wear of the insulation, shall be adequately protected by rubber or plastic grommets, and/or non-metal conduit.	Accepted
<b>1.11</b>	Ends of all wires shall be adequately anchored to prevent loosening	Accepted
<b>1.12</b>	All electrical connections shall be soldered and enclosed in heat shrink or in water tight junction blocks	Accepted
<b>1.13</b>	Scotch locks and wire nuts are not acceptable	Accepted
<b>1.14</b>	All wire connections from the utility body and tower to the chassis must be connected to the body up fit module if provided	Accepted
<b>1.15</b>	Body vendor will install body, mud flaps, lights as necessary	Accepted
<b>1.16</b>	Mud flaps will be plain with no advertising on either side	Accepted
<b>1.17</b>	No frame extensions will be accepted	Accepted
	<b>Aerial Manlift:</b>	Accepted
<b>1.18</b>	Aerial tower shall have the following characteristic based on a 40 inch frame height	Accepted
<b>1.19</b>	Ground to bottom of platform: 40 feet	Accepted
<b>1.20</b>	Working height: 45 feet	Accepted
<b>1.21</b>	Horizontal reach: 30 feet 6 inches @ 16 foot platform height	Accepted
<b>1.22</b>	Stowed travel high: 10 feet 6 inches	Accepted
<b>1.23</b>	Platform capacity: 400 pounds minimum	Accepted
<b>1.24</b>	Extension boom travel 120 inches	Accepted
<b>1.25</b>	Main boom travel: -35 degree to + 80 degree	Accepted
<b>1.26</b>	Articulated boom travel: -0 degrees to _80 degrees	Accepted
<b>1.27</b>	Jib winch capacity: 1,000 pounds	Accepted
<b>1.28</b>	Main boom shall be constructed of 8 inch x 10 inch rectangular high strength steel	Accepted
<b>1.29</b>	Section of main boom housing the internal cable track shall be expanded to 8 inches x 14 inches to allow the hoses and cable track to operate above minimum bend requirements	Accepted
<b>1.30</b>	Minimum travel of the main boom shall allow the operator to place the basket on the ground to reach the rear tail-shelf and to allow access to the compartments of the body without leaving the basket	Accepted
<b>1.31</b>	Main boom shall include a fiberglass insert to provide an insulation gap of 14 inches when the telescoping boom is fully retracted	Accepted
<b>1.32</b>	Fiberglass insert shall be bolted and glued to provide a secure connection	Accepted
<b>1.33</b>	Boom shall be clearly labeled to indicate the area of insulated protection	Accepted



<b>1.34</b>	Upper and lower support wear pads shall be 1/4 inch thick UHMW polyethylene	Accepted
<b>1.35</b>	Side support wear pads shall be threaded adjustable wear pads made of nylon	Accepted
<b>1.36</b>	Wear pads shall be replaceable without disassembly of boom sections	Accepted
<b>1.37</b>	Extension boom shall be made from 7 inch x 9 inch fiberglass tubing	Accepted
<b>1.38</b>	The inner wear pads shall be of threaded adjustable nylon	Accepted
<b>1.39</b>	A hydraulic cylinder shall accomplish the telescopic action of the extension boom, The use of cables or chains to extend or retract is not acceptable	Accepted
<b>1.40</b>	A polyethylene sleeve shall be placed over the basket end of the extension cylinder to increase the distance of dielectric integrity	Accepted
<b>1.41</b>	Polyethylene sleeves shall be certified for 50KV	Accepted
<b>1.42</b>	Articulating arms shall be made from 7 inch x 7 inch square high strength tubing	Accepted
<b>1.43</b>	Articulating arms shall be compensating in design to maintain constant boom angle during the elevation of the articulating arm	Accepted
<b>1.44</b>	The articulating boom shall include a fiberglass insert to provide an insulation gap of 12 inches at an angle of incline	Accepted
<b>1.45</b>	The insert shall be bolted and glued to provide a secure connection	Accepted
<b>1.46</b>	The boom shall be clearly labeled to indicate the area of the insulated protection	Accepted
<b>1.47</b>	Pedestal shall be a structural box shaped and include the hydraulic components	Accepted
<b>1.48</b>	An adequate opening shall be provided by a door or cover to allow access to internal components	Accepted
<b>1.49</b>	A hydraulic reservoir fill indicator shall be clearly visible and labeled to indicate the level of the oil	Accepted
<b>1.50</b>	The pedestal shall be machined flat for installation of the shear ball rotation bearing	Accepted
<b>1.51</b>	The pedestal structure must be of a single piece design and bolted directly to the lift sub frame. Risers and spacers are not acceptable	Accepted
<b>1.52</b>	Turntable shall be designed to resist all torque loads	Accepted
<b>1.53</b>	All pivot points for the boom and cylinders shall be line boarded to allow for proper alignment	Accepted
<b>1.54</b>	A 17 inch diameter shear ball rotation bearing shall be required	Accepted
<b>1.55</b>	Bearing races shall be heat treated and sealed to prevent entry of dirt and moisture and be equipped with readily accessible zerk fittings	Accepted
<b>1.56</b>	Rotation shall be driven by a worm gear, reduction gearbox	Accepted
<b>1.57</b>	A means of adjustment shall be included to provide for proper gear backlash	Accepted
<b>1.58</b>	Rotation system shall be self locking in the event of a hydraulic system failure	Accepted
<b>1.59</b>	The input shaft shall be machined with an extended hexagon design to allow for manual rotation	Accepted
<b>a</b>	Rotation shall be continuous in either direction	Accepted
<b>b</b>	A rotation manifold shall provide for hydraulic functions	Accepted
<b>c</b>	Each port shall be separated by O-rings	Accepted
<b>d</b>	The inner core of the manifold should be attached to the turn table and allow for maintenance of all hoses without removing guards for service or inspection	Accepted
<b>e</b>	The outer case shall be attached securely to the pedestal to prevent rotation	Accepted
<b>f</b>	Sub-frame shall be secured to the vertical section of the vehicle frame and provide adequate strength to withstand the load of the aerial lift	Accepted
<b>1.60</b>	A boom support shall be provided to support the aerial lift booms in the transport position	Accepted
<b>1.61</b>	An over the center clamping device shall secure the booms to the support for road transport	Accepted
<b>1.62</b>	The hydraulic system shall be designed as an open center hydraulic system	Accepted
<b>1.63</b>	All hydraulic components including the 15 gallon hydraulic reservoir shall be housed within the aerial lift pedestal	Accepted
<b>1.64</b>	The reservoir shall be equipped with a drain plug, filler cap, air filter vent, sight level gauge, baffle system, and shut off valve at the outlet	Accepted
<b>1.65</b>	A 10 micron return filter shall be installed as close to the reservoir as possible and must be accessible for maintenance	Accepted
<b>1.66</b>	A 100 micron suction strainer shall be installed on the inlet to the pump , with a shut-off ball valve for ease of service	Accepted

<b>1.67</b>	Hydraulic tool circuits will be provided at the basket for operator use	Accepted
<b>1.68</b>	A pressure relief valve must be built into the system to prevent overload and set at 2,250 psi	Accepted
<b>1.69</b>	Aerial lift shall be equipped with basket and turntable mounted control stations	Accepted
<b>1.70</b>	Levers at both the upper and lower control stations shall automatically return to neutral position when released	Accepted
<b>1.71</b>	The controls shall use full pressure proportional hydraulic valves	Accepted
<b>1.72</b>	A one handed joystick control with trigger activation will be used to operate the upper controls	Accepted
<b>1.73</b>	Boom movement can't occur if the trigger is not activated	Accepted
<b>1.74</b>	When either control is released, boom movement shall stop and oil flow shall be redirected to the reservoir	Accepted
<b>1.75</b>	Basket mounted control station shall permit the operator to control all boom movements, chassis start and stop controls, and emergency backup functions	Accepted
<b>1.76</b>	With the boom stowed in the rest position, the control handle is orientated so the operator will operate it with the joystick handle in the right hand facing away from the truck	Accepted
<b>1.77</b>	Pulling up on the joystick handle will raise the booms	Accepted
<b>1.78</b>	Pushing down on the joystick will lower the boom	Accepted
<b>1.79</b>	Pushing the joystick forward will extend the extension boom	Accepted
<b>1.80</b>	Pulling the joystick back will retract the extension boom	Accepted
<b>1.81</b>	Pushing the joy stick to the right or left will rotate the booms	Accepted
<b>1.82</b>	The upper control valve lockout shall be available for the basket-stow and articulating arm valve section	Accepted
<b>1.83</b>	The lock out requires releasing a mechanical lock prior to the movement of the valve handle	Accepted
<b>1.84</b>	The turntable mounted lower control valve shall override the upper control valve and shall be capable of maintaining override of the upper control valve while unattended	Accepted
<b>1.85</b>	The aerial lift shall be powered by a hydraulic pump which produces up to 6 gpm	Accepted
<b>1.86</b>	The hydraulic system shall also include a 12 volt DC emergency backup system with a motor and pump delivering 1.4 gpm	Accepted
<b>1.87</b>	All hydraulic hoses shall be placed within a cable track located inside of the main boom and be protected against abrasion, twisting and normal wear	Accepted
<b>1.88</b>	Hydraulic hoses shall have a 4 to 1 safety factor from operating to burst pressure	Accepted
<b>1.89</b>	Hydraulic fluid shall be "Glacial Blue Type" (Meets MilSpec 5606)	Accepted
<b>1.90</b>	Hydraulic tank will be labeled "Glacial Blue Type"	Accepted
<b>1.91</b>	Main boom will have a double action lift cylinder with a minimum 5 inch bore	Accepted
<b>1.92</b>	Extension boom will have a double action cylinder with a minimum 2 1/2 inch bore	Accepted
<b>1.93</b>	Articulating arm will have a double action cylinder with a minimum 5 inch bore	Accepted
<b>1.94</b>	Cylinder ends shall have spherical self-aligning rod ends	Accepted
<b>1.95</b>	Holding valves will be attached to each cylinder to prevent boom creep and to lock the cylinders in the event of a line failure	Accepted
<b>1.96</b>	Hydraulic cylinders shall have welded and threaded end caps for maximum safety	Accepted
<b>1.97</b>	Piston shafts shall be highly polished chrome finish	Accepted
<b>1.98</b>	Basket shall be 24 inch x 30 inch x 42 inch, side mounted, square molded fiberglass, mounted to the curb side of the boom	Accepted
<b>a</b>	A hydraulic rotator shall rotate the basket 100 degrees about the end of the boom, from curb side to street-side	Accepted
<b>b</b>	A control valve located at the upper controls shall control the rotation	Accepted
<b>c</b>	Entry/exit shall be gained by an inner/outer molded step	Accepted
<b>1.99</b>	The basket shall be completely enclosed and shall not have any holes for drainage or other wise	Accepted
<b>a</b>	The basket shall be automatically leveled, as the main boom rises	Accepted
<b>b</b>	The hydraulic basket leveling shall incorporate two (2) enclosed loop leveling cylinders and appropriate valving	Accepted



<b>c</b>	A control valve to stow/trim the basket shall be located at the upper controls and is optional at the lower override controls	Accepted
<b>d</b>	The basket stow requires simultaneous activation with the locking valve to prevent inadvertent movement	Accepted
<b>2.00</b>	A basket cover shall be provided that completely covers the top molded lip of a standard 24 inch x 30 inch 42 inch basket	Accepted
<b>a</b>	The cover shall be of a good quality vinyl material and shall include an elastic cord or band to keep the cover secured to the basket	Accepted
<b>b</b>	A strap with latching hook shall be permanently attached to the cover to allow for securing to the boom tip, preventing accidental loss	Accepted
<b>2.01</b>	The material handling function shall include a jib and winch that are positioned on the street-side of the boom	Accepted
<b>2.02</b>	The jib is hydraulically controlled to allow the operators to position the load vertically with a control valve located at the upper control valve	Accepted
<b>2.03</b>	The jib pole shall be manually adjusted to position the length of the reach required	Accepted
<b>2.04</b>	A load chart near the operators control station informs the operator of the jib boom carrying capacities	Accepted
<b>2.05</b>	The jib assembly shall be independent of the basket leveling system	Accepted
<b>2.06</b>	The hydraulic jib cylinder shall include its own holding valve, which prevents cylinder creep and to lock the cylinder in the event of hydraulic hose failure	Accepted
<b>2.07</b>	The self-locking worm gear winch is controlled from both the upper and lower control valves	Accepted
<b>2.08</b>	80 feet of 1/2 inch diameter double braid polyester rope with clevis hook shall be provided	Accepted
<b>2.09</b>	All boom pivot points shall be constructed of high alloy steel (130,000 psi yield strength minimum)	Accepted
<b>a</b>	All pins will require a Nitrotech Furnas treatment	Accepted
<b>b</b>	The pin results in a hardness range of Rc64 to 71 with a finish of 40-uin	Accepted
<b>c</b>	All pivots shall be equipped with replaceable fiberglass reinforced Teflon bearings, no lubrication shall be required	Accepted
<b>2.10</b>	Hydraulic activated outriggers shall be attached to the frame of the chassis though the front compartment of the body	Accepted
<b>2.11</b>	A sub-frame attached to the frame of the truck shall secure the outriggers and the aerial lift to form one integral mount	Accepted
<b>2.12</b>	Outriggers shall have a minimum vertical travel clearance of 14 inches	Accepted
<b>2.13</b>	Outriggers shall be capable of extending to a 13 foot 6 inch spread	Accepted
<b>2.14</b>	The outrigger legs shall consist of inner and outer telescoping structural tubing	Accepted
<b>2.15</b>	Adjustable polyethylene wear pads shall prevent wear and vibration during road transport, and shall center the inner and outer tubes	Accepted
<b>2.16</b>	Hydraulic activated outriggers shall be attached to the frame of the chassis at the rear of the body, if required for stability certification	Accepted
<b>2.17</b>	The outrigger legs must not block the cargo of the body	Accepted
<b>2.18</b>	The hydraulic cylinders shall be double action, heavy-duty welded with threaded end caps for maximum safety	Accepted
<b>2.19</b>	Holding valves shall be attached to each cylinder to prevent creep and to lock cylinders in case of line failure	Accepted
<b>2.20</b>	A manual diverter valve directs flow from the lift to the outriggers	Accepted
<b>2.21</b>	Controls for each outrigger cylinder will be supplied at the rear of the chassis so that the outriggers can be seen while in operation	Accepted
<b>2.22</b>	Outrigger indicator light on dash to indicate outriggers are not stowed for transport	Accepted
<b>2.23</b>	95 dba audible alarm shall be activated when out riggers are in motion, either in or out	Accepted
<b>2.24</b>	An outrigger/boom interlock system shall prevent lift operation until the outriggers contacts the ground and outrigger retraction before aerial lift is properly stowed	Accepted
<b>2.25</b>	Hydraulic system shall be driven by power take off(PTO) to be a Chelsea 277 hot shift PTO with overspeed control, or equivalent	Accepted
<b>2.26</b>	PTO shall be wired to only allow it to engage if parking brakes are set	Accepted

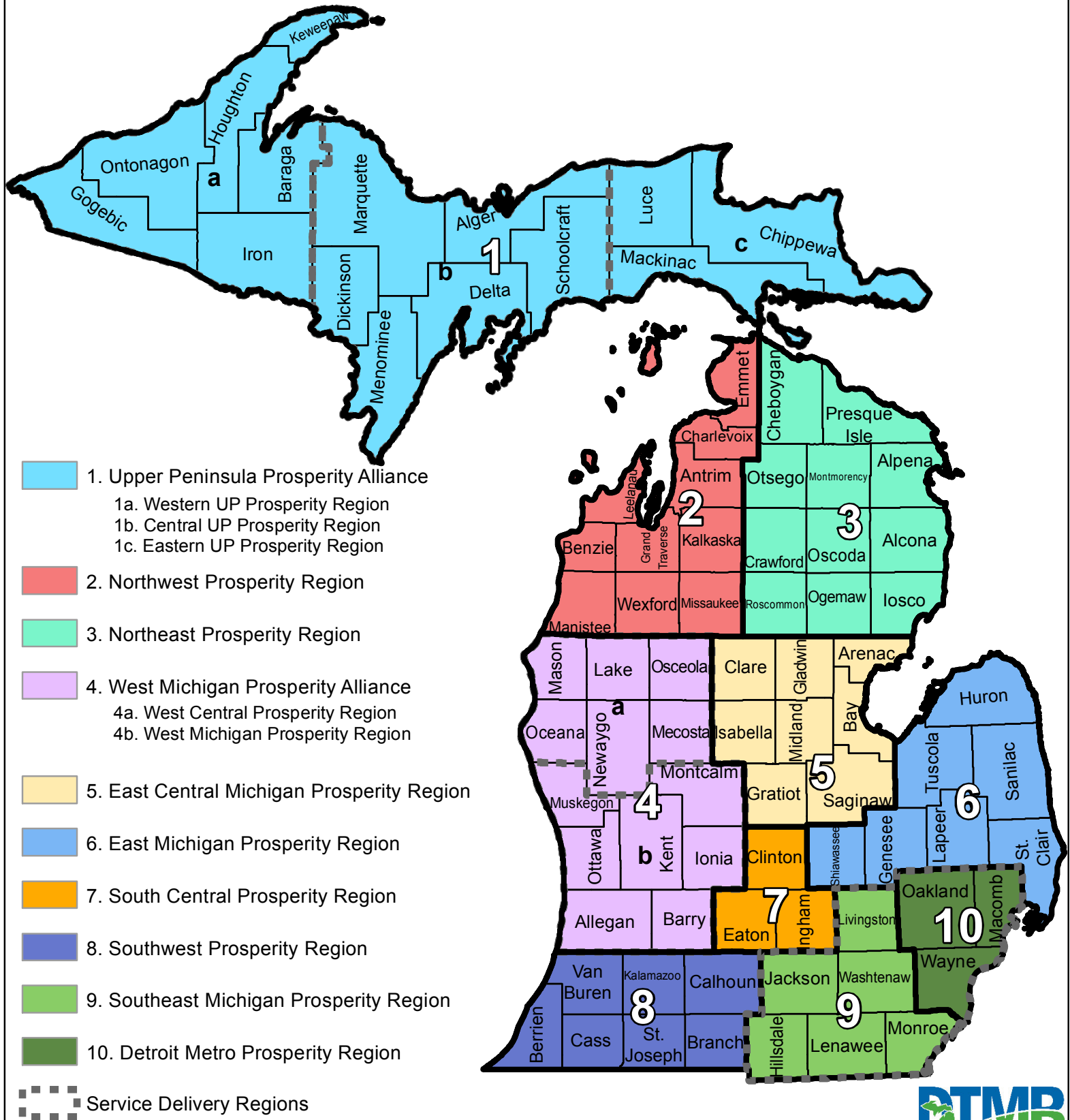
2.27	PTO control shall be dash mounted electrical switch	Accepted
2.28	PTO engaged light will be provide in the cab	Accepted
2.29	No part of the boom shall extend past the tail-shelf in the stowed position	Accepted
2.30	Pedestal shall be mounted directly behind the truck cab	Accepted
2.31	Boom shall be to the rear in the stowed position	Accepted
2.32	All exposed underbody valving shall be enclosed in a box to prevent corrosion	Accepted
2.33	A slope meter shall be furnished and mounted in the dash for the truck	Accepted
2.34	A slope meter shall be furnished and mounted on the rear of the truck	Accepted
2.35	A "Boom Raised" light will be mounted in the dash to illuminate when the boom is not in the stowed position	Accepted
2.36	"Boom raised" light shall be activated by an epoxy sealed, magnetic proximity switch, Grainger part # 6C834 or Omron type TL-W20ME2 12V - 24V No Exceptions	Accepted
2.37	A transport height placard indicating the overall stowed height of the completed vehicle shall be mounted on the dash in clear view of the operator	Accepted
2.38	Outer/inner boom assembly's shall be tested and certified for electrical work at 46KV and below in accordance with ANSI A92.2 requirements	Accepted
2.39	The chassis insulating system (lower boom insert) shall also be tested and certified for electric work at 46KV and below in accordance with ANSI A92.2 requirements	Accepted
2.40	Completed unit shall be tested and inspected before delivery to MDOT. A dated inspection sticker shall be installed inside rear window of truck	Accepted
	<b>Utility Body</b>	Accepted
2.41	The body shall be designed for a chassis with a cab to axle dimension of approximately 84 inches and provide curbside access with step and handrail	Accepted
2.42	Body shall be galvanneall steel or approved equal	Accepted
2.43	Fiberglass body can be bid as an option, as long as it meets the general requirements and all differences are noted	Accepted
2.44	Utility body dimension shall be approximately:	Accepted
a	Load space width - 54 inches	Accepted
b	Top of body to top of floor -30 inches	Accepted
c	Horizontal compartment height - 24 inches	Accepted
2.45	A drawing of the proposed body shall be submitted with the bid	Accepted
2.46	Automotive quality bulb type door seals shall be furnished on all compartment doors	Accepted
2.47	Understructure will be 5 inch, 6.7 pound structural steel channel cross-members	Accepted
2.48	Tie channels will be 5 inch 4.1 pound structural steel channel	Accepted
2.49	Floor will be 3/16 inch tread plate	Accepted
2.50	Front boxes will be 14 gauge A/40 galvanneal steel	Accepted
2.51	Front and intermediate partition shall be 14 gauge A/40 galvanneal steel	Accepted
2.52	Rear partition will be 14 gauge A/40 galvanneal steel	Accepted
2.53	Wheel house panels shall be 14 gauge A/40 galvanneal steel	Accepted
2.54	Compartment sides shall be 14 gauge A/40 galvanneal steel	Accepted
2.55	All shelving shall be 16 gauge with dividers being 20 gauge galvanneal steel minimum	Accepted
2.56	Door will be double panel construction, 18 gauge outer and 20 gauge inner A40/galvanneal steel	Accepted
2.57	Hinges will be 5/16 inch diameter, electro zinc steel rod type with zinc cast hinge and nylon bushings	Accepted
2.58	Will include front aerial reinforcement bar, installed	Accepted
2.59	Latches will be flush mounted T-handle twist to open and close type	Accepted
2.60	All locks will be keyed alike	Accepted
2.61	All vertical doors will be equipped with spring loaded door holder	Accepted
2.62	Master locking system will be provided on all compartments with lock provisions at rear of side cases	Accepted
2.63	All compartments will have white LED strip lighting with a master switch and a pilot light in the cab, fused separately	Accepted
2.64	Curbside compartments shall be approximately 48 inches tall x 21 inches deep with vent in rear compartment and:	Accepted

<b>2.65</b>	Front vertical - 32 inches wide, two shelves w / dividers	Accepted
<b>2.66</b>	Second vertical - 24 inches wide side entry with grab handle and steps constructed of grip strut	Accepted
<b>2.67</b>	Horizontal - 52 inches wide x 21 inches tall	Accepted
<b>2.68</b>	Rear vertical - 24 inches wide, one shelf w/ divider	Accepted
<b>2.69</b>	Street side compartments shall be approximately 48 inches tall with vent in front compartment	Accepted
<b>2.70</b>	Front vertical - 32 inches wide, two shelves w / dividers	Accepted
<b>2.71</b>	Second vertical - 24 inches wide, open no shelving	Accepted
<b>2.72</b>	Horizontal - 52 inches wide open no shelving	Accepted
<b>2.73</b>	Rear vertical - 24 inches wide, one shelf w/ divider	Accepted
<b>2.74</b>	Wheel chocks, one set, rubber, with aluminum holder mounted under (or) in utility body	Accepted
<b>2.75</b>	Composite plastic (or aluminum) outrigger pads, two, (2) 24" X 24" X 1" with two (2) aluminum holders mounted under the body	Accepted
<b>2.76</b>	Triangular reflector kit	Accepted
<b>2.77</b>	10lb fire extinguisher with heavy duty bracket installed	Accepted
<b>2.78</b>	Rear bumper will be step type with recess in center for trailer hitch constructed of 12 gauge tread plate	Accepted
<b>2.79</b>	A tail shelf shall be constructed of 3/16 inch tread plate, 36 inches long x 96 inches wide x 6 inches high	Accepted
<b>2.80</b>	Trailer hitch shall be receiver type, class IV	Accepted
<b>2.81</b>	Two 3/4 inch D-rings installed for trailer safety chains	Accepted
<b>2.82</b>	Eyelet for trailer breakaway cables	Accepted
<b>2.83</b>	Per MDOT supplied - Trailer Wiring Diagram, trailer connector shall be 7-way round pin Berg type , mounted at rear of frame, wired for turn signals independent of stop, compatible with trailers that have amber or side turn lamps, provided and installed by vendor	Accepted
<b>2.84</b>	Electric moisture resistant back -up alarm, 95 dba sound level shall be provided	Accepted
<b>2.85</b>	All exterior lights will be LED type and conform with FMVSS 108 standards and shall include:	Accepted
<b>a</b>	Clearance	Accepted
<b>b</b>	Stop	Accepted
<b>c</b>	Tail	Accepted
<b>d</b>	Turn	Accepted
<b>e</b>	Back up	Accepted
<b>2.86</b>	<b>Work/strobe light type and placement:</b>	Accepted
<b>2.87</b>	All strobes lights are to be a combination Amber/Green light. All strobe lights to be synchronized together. Flash pattern to be amber quad fast flash, with a single green slow flash	Accepted
<b>2.88</b>	Four (4) L.E.D. corner strobe lighting to truck. Two (2) in rear light channel and Two (2) in front grille area. To have separate master switch located in chassis cab. Soundoff # EMPC2STS4 - LED or equivalent	Accepted
<b>2.89</b>	Two (2) L.E.D strobe lights mounted on both sides of the body, Install on same master on/off switch as the 4 corner strobes. Soundoff # EMPC2STS4 - LED or equivalent	Accepted
<b>2.90</b>	Two (2) mini light bars to light support bar on both Curb side and Street side of boom rest. Lights to be visible from front, rear and sides of truck. To have separate on/off master switch located in chassis cab. Soundoff # ENRMB000EN L.E.D. mini light bar or equivalent.	Accepted
<b>2.91</b>	One (1) Go-Light mounted just below upper strobe light on Curb Side with WIRELESS chassis control and WIRELESS handheld control. Go-light Model # 20074 or equivalent	Accepted
<b>2.92</b>	<b>Miscellaneous:</b>	Accepted
<b>2.93</b>	A transport height placard indicating the overall stowed height of the completed vehicle shall be mounted on the dash in clear view of the operator	Accepted
<b>2.94</b>	Stability test unit according to ANSI requirements	Accepted
<b>2.95</b>	A dated inspection sticker shall be installed inside rear window of truck	Accepted

<b>2.96</b>	Manufactures standard warranty	Accepted
<b>2.97</b>	Provide 8 hours of operator training, at a time and location determined by the State after unit has been accepted and is ready to be placed into service	Accepted
<b>2.98</b>	2 - Parts manual	Accepted
<b>2.99</b>	2 - Service manual	Accepted
<b>3.00</b>	2 - Operators manual	Accepted
<b>3.01</b>	1 - Safety & training video	Accepted
<b>AERIAL TOWER, INSULATED BOOM 45 FOOT WORKING HEIGHT AND UTILITY BODY W/ SIDE ACCESS</b>		
	<b>Make Offered:</b>	Ford
	<b>Model Offered:</b>	F550 LT40

# SCHEDULE E

## State of Michigan Prosperity Regions

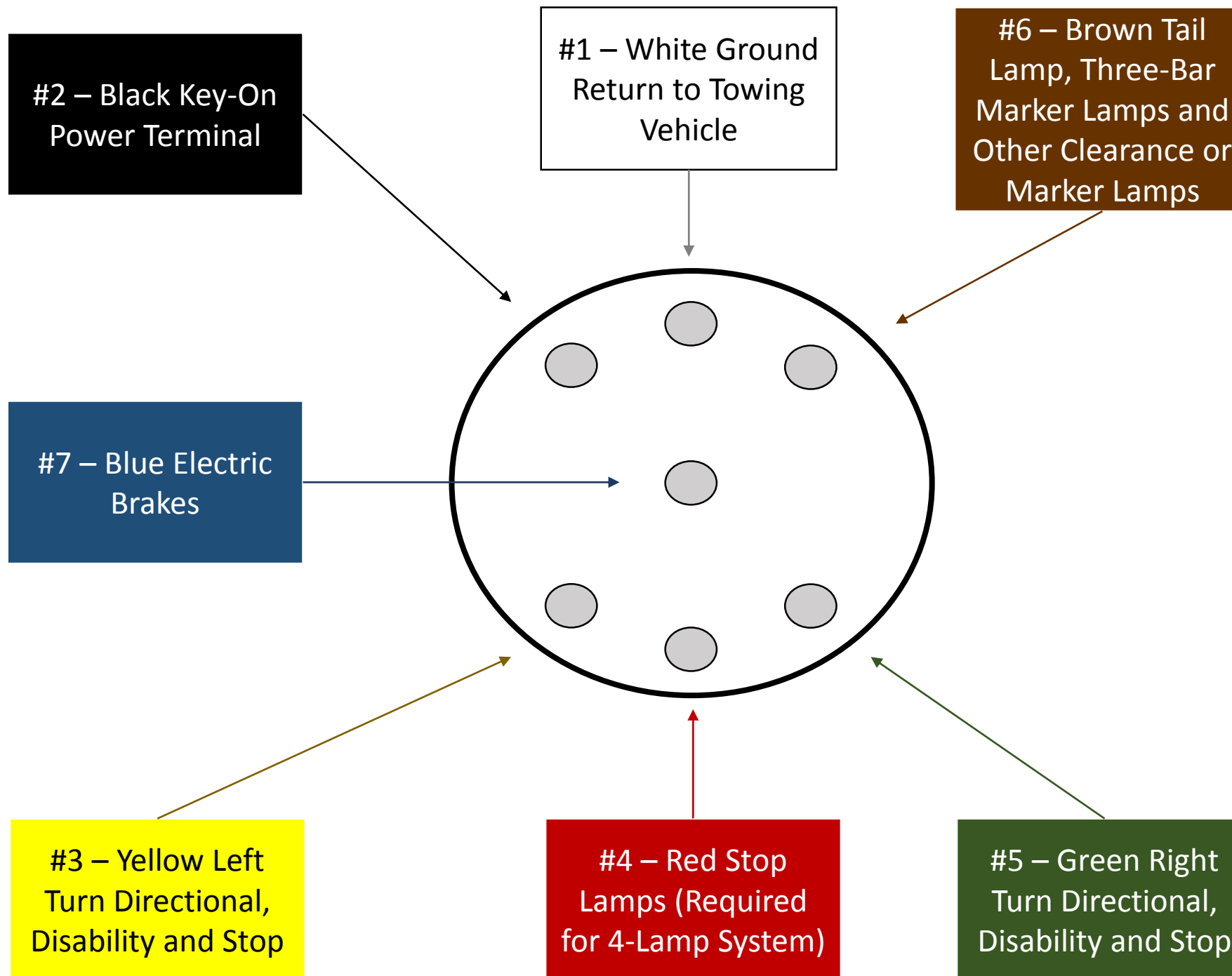


## Schedule F - Trailer Wiring Diagram



**(Use Std J560 Connector)**

**All Non-Tractor/Trailer Non-ABS Truck-End (Viewed from Wire Side of Plug)**



Rev Date: 03/04/2015