



STATE OF MICHIGAN ENTERPRISE PROCUREMENT

DTMB

320 S Walnut Street Lansing, MI 48933
P.O. Box 30026, Lansing, MI 48909

CONTRACT CHANGE NOTICE

Change Notice Number **15**

to

Contract Number **MA071B7700120C**

CONTRACTOR	ELECTION SYSTEMS & SOFTWARE INC
	11208 John Galt Blvd
	Omaha NE 68137
	Wil Wesley
	954-816-0042
	wil.wesley@essvote.com
	CV0056231

STATE	Program Manager	David Tarrant	MDOS
		517-335-3230	
		tarrantd2@michigan.gov	
	Contract Administrator	Jordana Sager	DTMB
		(517) 896-1903	
		sagerj2@michigan.gov	

CONTRACT SUMMARY				
Voting System Hardware, Firmware, Software and Ser				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE	
March 1, 2017	February 28, 2027	0 - 0 Months	February 28, 2027	
PAYMENT TERMS		DELIVERY TIMEFRAME		
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-Card ☐ Direct Voucher (PRC) ☐ Other			☒ Yes ☐ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐	0 Years	
CURRENT VALUE	VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE		
\$6,421,994.16	\$0.00	\$6,421,994.16		
DESCRIPTION				
Effective July 28, 2025, the Contract Administrator has been changed to Jordana Sager.				
All other terms, conditions, specifications and pricing remain the same. Per (DTMB) contractor (request/proposal) and agency (request) agreement, and DTMB Central Procurement approval.				



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 **14**

to

Contract Number **MA071B7700120C**

CONTRACTOR	ELECTION SYSTEMS & SOFTWARE INC
	11208 John Galt Blvd
	Omaha NE 68137
	Wil Wesley
	954-816-0042
	wil.wesley@essvote.com
	CV0056231

STATE	Program Manager	David Tarrant	MDOS
		517-335-3230	
		tarrantd2@michigan.gov	
	Contract Administrator	Katie McFarland	DTMB
		517-930-6814	
		McFarlandK1@michigan.gov	

CONTRACT SUMMARY				
Voting System Hardware, Firmware, Software and Ser				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE	
March 1, 2017	February 28, 2027	0 - 0 Months	February 28, 2027	
PAYMENT TERMS		DELIVERY TIMEFRAME		
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-Card ☐ Direct Voucher (PRC) ☐ Other			☒ Yes ☐ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		
CURRENT VALUE	VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE		
\$6,421,994.16	\$0.00	\$6,421,994.16		
DESCRIPTION				
Effective date 4/14/2025, the following items are added to this contract, per revised Schedule C - Pricing.				
All other terms, conditions, specifications and pricing remain the same. Per contractor and agency agreement, and DTMB Central Procurement approval.				

STATE OF MICHIGAN

Contract No. 071B7700120

Voting System Hardware, Firmware, Software and Service

SCHEDULE C PRICING - Revisions Only

	PURCHASE AND TWO (2) YEAR HARDWARE/FIRMWARE WARRANTY	POST-WARRANTY SERVICE / MAINTENANCE (ANNUAL PAYMENT)
	Per-Unit Purchase Price	Per-Unit Annual Service/Maintenance Price (Extended Warranty with Biennial Maintenance)
Precinct Tabulator – DS300 Tabulator Includes: - DS300 Ballot Box - Internal Backup Battery - Paper Roll - One (1) 4GB USB Memory Device	\$7,790.00	\$285.00
Accessible Voting System - ExpressVote v3 Includes: - Soft-Sided Case - Internal Backup Battery - Detachable ADA Keypad - 4GB USB Memory Device - Headphones - Privacy Screen	\$5,390.00	\$200.00



STATE OF MICHIGAN
CENTRAL PROCUREMENT SERVICES
Department of Technology, Management, and Budget
320 S. WALNUT ST., LANSING, MICHIGAN 48933
P.O. BOX 30026 LANSING, MICHIGAN 48909

CONTRACT CHANGE NOTICE

Change Notice Number **13**
to
Contract Number **071B7700120**

CONTRACTOR	ELECTION SYSTEMS & SOFTWARE INC
	11208 John Galt Blvd
	Omaha, NE 68137
	Wil Wesley
	954-816-0042
	wil.wesley@essvote.com
	CV0056231

STATE	Program Manager	David Tarrant	MDOS
		517-335-3230	
		tarrantd2@michigan.gov	
	Contract Administrator	Katie McFarland	DTMB
		517-930-6814	
		mcfarlandk1@michigan.gov	

CONTRACT SUMMARY				
VOTING SYSTEM HARDWARE, FIRMWARE, SOFTWARE AND SER				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE	
March 1, 2017	February 28, 2027	0 - 0 Year	February 28, 2027	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45 Days				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-Card ☐ PRC ☐ Other			☒ Yes ☐ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		February 28, 2027
CURRENT VALUE	VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE		
\$6,421,994.16	\$0.00	\$6,421,994.16		
DESCRIPTION				
Effective February 13, 2024, Early Voting Support is hereby added to this contract per the revised Schedule C - Pricing.				
All other terms, conditions, specifications and pricing remain the same. Per contractor and agency agreement, and DTMB Central Procurement approval.				

STATE OF MICHIGAN

Contract No. 071B7700120

Voting System Hardware, Firmware, Software and Service

SCHEDULE C PRICING - Revisions Only

Cost Table 6: Early Voting (EV) Support

Effective	Onsite Support – Daily Rate (Dedicated technician onsite)	Regional Support – Daily Rate (Technician shared between counties)	New New								
2/13/24	\$1,575 per technician	\$1,575 per technician									
10/1/2024	\$1,975 per technician	\$1,975 per technician									
Telephone support is included at no additional cost with a target resolution of 4 hours.											
				New							
<table><tr><th>Phase</th><th>Initial Response</th><th>Subsequent Responses</th><th>Target Resolution Time</th></tr><tr><td>Early Voting Period</td><td>Within 2 hours of receipt of call, email or voicemail to the ES&S Support team Phone: 877-ESS-VOTE (877-377-8683) Email: hardware@essvote.com software@essvote.com</td><td>As needed</td><td>4 hours</td></tr></table>				Phase	Initial Response	Subsequent Responses	Target Resolution Time	Early Voting Period	Within 2 hours of receipt of call, email or voicemail to the ES&S Support team Phone: 877-ESS-VOTE (877-377-8683) Email: hardware@essvote.com software@essvote.com	As needed	4 hours
Phase	Initial Response	Subsequent Responses	Target Resolution Time								
Early Voting Period	Within 2 hours of receipt of call, email or voicemail to the ES&S Support team Phone: 877-ESS-VOTE (877-377-8683) Email: hardware@essvote.com software@essvote.com	As needed	4 hours								



STATE OF MICHIGAN
CENTRAL PROCUREMENT SERVICES
Department of Technology, Management, and Budget
320 S. WALNUT ST., LANSING, MICHIGAN 48933
P.O. BOX 30026 LANSING, MICHIGAN 48909

CONTRACT CHANGE NOTICE

Change Notice Number **12**
to
Contract Number **071B7700120**

CONTRACTOR	ELECTION SYSTEMS & SOFTWARE INC
	11208 John Galt Blvd
	Omaha, NE 68137
	Wil Wesley
	954-816-0042
	wil.wesley@essvote.com
	CV0056231

STATE	Program Manager	David Tarrant	MDOS
		517-373-2543	
		tarrantd2@michigan.gov	
	Contract Administrator	Katie McFarland	DTMB
		517-930-6814	
		mcfarlandk1@michigan.gov	

CONTRACT SUMMARY				
VOTING SYSTEM HARDWARE, FIRMWARE, SOFTWARE AND SER				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE	
March 1, 2017	February 28, 2027	0 - 0 Year	February 28, 2027	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45 Days				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-Card ☐ PRC ☐ Other			☒ Yes ☐ No	
MINIMUM DELIVERY REQUIREMENTS				
N/A				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		February 28, 2027
CURRENT VALUE	VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE		
\$5,921,994.16	\$500,000.00	\$6,421,994.16		
DESCRIPTION				
Effective December 15, 2023, this contract is hereby increased by \$500,000.00.				
All other terms, conditions, specifications and pricing remain the same. Per contractor and agency agreement, and DTMB Central Procurement approval.				



STATE OF MICHIGAN
CENTRAL PROCUREMENT SERVICES
Department of Technology, Management, and Budget
320 S. WALNUT ST., LANSING, MICHIGAN 48933
P.O. BOX 30026 LANSING, MICHIGAN 48909

CONTRACT CHANGE NOTICE

Change Notice Number **11**
to
Contract Number **071B7700120**

CONTRACTOR	ELECTION SYSTEMS & SOFTWARE INC
	11208 John Galt Blvd
	Omaha, NE 68137
	Wil Wesley
	954-816-0042
	wil.wesley@essvote.com
	CV0056231

STATE	Program Manager	David Tarrant	MDOS
		517-373-2543	
		tarrantd2@michigan.gov	
	Contract Administrator	Katie McFarland	DTMB
		517-930-6814	
		mcfarlandk1@michigan.gov	

CONTRACT SUMMARY				
VOTING SYSTEM HARDWARE, FIRMWARE, SOFTWARE AND SER				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS		EXPIRATION DATE BEFORE
March 1, 2017	February 28, 2027	0 - 0 Year		February 28, 2027
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45 Days				
ALTERNATE PAYMENT OPTIONS				EXTENDED PURCHASING
☐ P-Card ☐ PRC ☐ Other				☒ Yes ☐ No
MINIMUM DELIVERY REQUIREMENTS				
N/A				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		February 28, 2027
CURRENT VALUE	VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE		
\$5,921,994.16	\$0.00	\$5,921,994.16		
DESCRIPTION				
Effective November 3, 2023, Cost Table 4: Component Replacement/Additional Parts is revised to delete existing Ballot On Demand solution and replace it with the new solution as reflected on the revised Schedule C - Pricing.				
All other terms, conditions, specifications and pricing remain the same. Per contractor and agency agreement, and DTMB Central Procurement approval.				

CONTRACT #071B7700120
Schedule C – Pricing – Revisions Only

ES&S Ballot-On-Demand (1-year Price)	Estimated Life (Years)	Purchase Source (Indicate if COTS)	Per-Unit Price
Color Ballot-On-Demand Hardware - Compact Color Printer w/Firmware - Laptop Computer without Router - Printer/Software Training - Installation - Ballot on Demand Software - 1 year Software Warranty - Shipping and Handling to Customer Loading Dock	N/A Replace if damaged or no longer functioning	Brother Color Printer with Special ES&S Features and Firmware	\$7,860.00
Ballot-On-Demand Hardware - Compact B&W Printer w/Firmware - Laptop Computer without Router - Printer/Software Training - Installation - Ballot on Demand Software - 1 year Software Warranty - Shipping and Handling to Customer Loading Dock	N/A Replace if damaged or no longer functioning	Brother B&W Printer with Special ES&S Features and Firmware	\$7,280.00
Annual Post Warranty Software License and Maintenance and Support Fees:	N/A	Fees based upon a 1-year customer commitment to subscribe to the Annual Warranty	\$870.00
Additional Color Printer for BOD	N/A Replace if damaged or no longer functioning	Brother Color Printer with Special ES&S Features and Firmware	\$1,605.00
Additional B&W Printer for BOD	N/A Replace if damaged or no longer functioning	Brother B&W Printer with Special ES&S Features and Firmware	\$1,025.00
2D Barcode Scanner (Optional)	N/A Replace if damaged or no longer functioning	COTS	\$390.00
Ballot On Demand Initial Election Set-Up Fee per Election Event: Black and White Ballot Set-Up: - \$475.00 per election set-up + \$1.75 per unique PDF for first Computer, - \$42.00 for each additional Computer Set-up Color Ballot Set-Up: - \$575.00 per election set-up + \$1.75 per unique PDF for first Computer, - \$42.00 for each additional Computer Set-up Rework of set up due to customer changes after initial set up is complete: - \$130.00 per change event for first Computer Set-Up - \$42.00 for each additional Computer Set-Up Optional On-Site Set-Up: \$1,975.00 per person, per day			
*NOTE: Pricing structure is unique to this contract. Hardware purchase price includes a 1-year software license and support, then the Annual Post Warranty Software License, Maintenance, and Support fees apply for subsequent years.			



STATE OF MICHIGAN
CENTRAL PROCUREMENT SERVICES
Department of Technology, Management, and Budget
320 S. WALNUT ST., LANSING, MICHIGAN 48933
P.O. BOX 30026 LANSING, MICHIGAN 48909

CONTRACT CHANGE NOTICE

Change Notice Number **10**
to
Contract Number **071B7700120**

CONTRACTOR	ELECTION SYSTEMS & SOFTWARE INC
	11208 John Galt Blvd
	Omaha, NE 68137
	Wil Wesley
	954-816-0042
	wil.wesley@essvote.com
	CV0056231

STATE	Program Manager	David Tarrant	MDOS
		517-335-3230	
		tarrantd2@michigan.gov	
	Contract Administrator	Katie McFarland	DTMB
		517-930-6814	
		mcfarlandk1@michigan.gov	

CONTRACT SUMMARY				
VOTING SYSTEM HARDWARE, FIRMWARE, SOFTWARE AND SER				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS		EXPIRATION DATE BEFORE
March 1, 2017	February 28, 2027	0 - 0 Year		February 28, 2027
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45 Days				
ALTERNATE PAYMENT OPTIONS				EXTENDED PURCHASING
☐ P-Card ☐ PRC ☐ Other				☒ Yes ☐ No
MINIMUM DELIVERY REQUIREMENTS				
N/A				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		February 28, 2027
CURRENT VALUE	VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE		
\$5,172,845.71	\$749,148.45	\$5,921,994.16		
DESCRIPTION				
Effective October 9, 2023, this contract is hereby increased by \$749,148.45.				
All other terms, conditions, specifications and pricing remain the same. Per contractor and agency agreement, and DTMB Central Procurement approval.				



STATE OF MICHIGAN
CENTRAL PROCUREMENT SERVICES
Department of Technology, Management, and Budget
320 S. WALNUT ST., LANSING, MICHIGAN 48933
P.O. BOX 30026 LANSING, MICHIGAN 48909

CONTRACT CHANGE NOTICE

Change Notice Number **9**
to
Contract Number **071B7700120**

CONTRACTOR	ELECTION SYSTEMS & SOFTWARE INC
	11208 John Galt Blvd
	Omaha, NE 68137
	Wil Wesley
	954-816-0042
	wil.wesley@essvote.com
	CV0056231

STATE	Program Manager	David Tarrant	MDOS
		517-335-3230	
		tarrantd2@michigan.gov	
	Contract Administrator	Katie McFarland	DTMB
		517-930-6814	
		mcfarlandk1@michigan.gov	

CONTRACT SUMMARY							
VOTING SYSTEM HARDWARE, FIRMWARE, SOFTWARE AND SER							
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS		EXPIRATION DATE BEFORE			
March 1, 2017	February 28, 2027	0 - 0 Year		February 28, 2027			
PAYMENT TERMS		DELIVERY TIMEFRAME					
Net 45 Days							
ALTERNATE PAYMENT OPTIONS				EXTENDED PURCHASING			
☐ P-Card	☐ PRC	☐ Other		☒ Yes ☐ No			
MINIMUM DELIVERY REQUIREMENTS							
N/A							
DESCRIPTION OF CHANGE NOTICE							
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE			
☐		☐		February 28, 2027			
CURRENT VALUE	VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE					
\$5,172,845.71	\$0.00	\$5,172,845.71					
DESCRIPTION							
Effective November 1, 2022, the DS200 tote bin has here by been add to this contract per the revised Schedule A - Pricing.							
All other terms, conditions, specifications and pricing remain the same. Per contractor and agency agreement, and DTMB Central Procurement approval.							

STATE OF MICHIGAN

Contract No. 071B7700120

Voting System Hardware, Firmware, Software and Service

Schedule C – Pricing – Revisions to Table 4 Only

Cost Table 4. Component Replacement/Additional Parts

Product	Estimated Life (Years)	Purchase Source (Indicate if COTS)	Per-Unit Price
DS200:			
DS200 Blue Tote Bin/Ballot Storage Box (Item #00074)	N/A. Replace if damaged	Pivot International	\$395.00



STATE OF MICHIGAN
CENTRAL PROCUREMENT SERVICES
 Department of Technology, Management, and Budget
 320 S. WALNUT ST., LANSING, MICHIGAN 48933
 P.O. BOX 30026 LANSING, MICHIGAN 48909

CONTRACT CHANGE NOTICE

Change Notice Number **8**
 to
 Contract Number **071B7700120**

CONTRACTOR	ELECTION SYSTEMS & SOFTWARE INC
	11208 John Galt Blvd
	Omaha, NE 68137
	Wil Wesley
	954-816-0042
	wil.wesley@essvote.com
	CV0056231

STATE	Program Manager	David Tarrant	MDOS
		517-373-2543	
	Contract Administrator	tarrantd2@michigan.gov	
		Katie McFarland	DTMB
		517-930-6814	
		mcfarlandk1@michigan.gov	

CONTRACT SUMMARY				
VOTING SYSTEM HARDWARE, FIRMWARE, SOFTWARE AND SER				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE	
March 1, 2017	February 28, 2027	0 - 0 Year	February 28, 2027	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45 Days				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-Card ☐ PRC ☐ Other			☒ Yes ☐ No	
MINIMUM DELIVERY REQUIREMENTS				
N/A				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		February 28, 2027
CURRENT VALUE	VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE		
\$5,056,762.61	\$116,083.10	\$5,172,845.71		
DESCRIPTION				
Effective 6/15/2022, this contract is hereby increased by \$116,083.10. Schedule C - Pricing, Cost Table 3, High Speed AVCB Tabulator has been revised to remove the DS850 and replace it with the DS950 model.				
All other terms, conditions, specifications and pricing remain the same. Per contractor and agency agreement, and DTMB Central Procurement approval.				

Contract No. 071B7700120
Voting System Hardware, Firmware, Software and Service
Schedule C – Pricing – Revision to Table 3 Only

Voting System Hardware, Firmware, Software and Service

Schedule C – Pricing – Revision to Table 3 Only

[illegible]

- The AVCB tabulators are utilized at the local jurisdiction (city/township) level, not at the county level.



STATE OF MICHIGAN
CENTRAL PROCUREMENT SERVICES
 Department of Technology, Management, and Budget
 525 W. ALLEGAN ST., LANSING, MICHIGAN 48913
 P.O. BOX 30026 LANSING, MICHIGAN 48909

CONTRACT CHANGE NOTICE

Change Notice Number **7**
 to
 Contract Number **071B7700120**

CONTRACTOR	ELECTION SYSTEMS & SOFTWARE INC
	11208 John Galt Blvd
	Omaha, NE 68137
	Wil Wesley
	954-816-0042
	wil.wesley@essvote.com
	CV0056231

STATE	Program Manager	David Tarrant	MDOS
		517-373-2543	
		tarrantd2@michigan.gov	
	Contract Administrator	Sue Ciecwa	DTMB
		(517) 249-0458	
		ciecwas@michigan.gov	

CONTRACT SUMMARY				
VOTING SYSTEM HARDWARE, FIRMWARE, SOFTWARE AND SERVICES - DEPARTMENT OF STATE				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE	
March 1, 2017	February 28, 2027	0 - 0 Year	February 28, 2027	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45 Days		Refer to Section 2.1 Time Frames		
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-Card ☐ PRC ☐ Other			☒ Yes ☐ No	
MINIMUM DELIVERY REQUIREMENTS				
There is no minimum order requirement.				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		February 28, 2027
CURRENT VALUE	VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE		
\$4,956,762.61	\$100,000.00	\$5,056,762.61		
DESCRIPTION				
Effective August 13, 2020, this Contract is increased by \$100,000.00 for MDOS use.				
All other terms, conditions, specifications and pricing remain the same. Per Contractor and agency agreement, and DTMB, Central Procurement Services approval.				



STATE OF MICHIGAN
CENTRAL PROCUREMENT SERVICES
 Department of Technology, Management, and Budget
 525 W. ALLEGAN ST., LANSING, MICHIGAN 48913
 P.O. BOX 30026 LANSING, MICHIGAN 48909

CONTRACT CHANGE NOTICE

Change Notice Number **6**

to

Contract Number **071B7700120**

CONTRACTOR	ELECTION SYSTEMS & SOFTWARE INC
	11208 John Galt Blvd
	Omaha, NE 68137
	Wil Wesley
	954-816-0042
	wil.wesley@essvote.com
	CV0056231

STATE	Program Manager	David Tarrant	MDOS
		517-373-2543	
		tarrantd2@michigan.gov	
	Contract Administrator	Sue Ciecwa	DTMB
		(517) 249-0458	
		ciecwas@michigan.gov	

CONTRACT SUMMARY				
VOTING SYSTEM HARDWARE, FIRMWARE, SOFTWARE AND SERVICES - DEPARTMENT OF STATE				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE	
March 1, 2017	February 28, 2027	0 - 0 Year	February 28, 2027	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45 Days		Refer to Section 2.1 Time Frames		
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-Card ☐ PRC ☐ Other			☒ Yes ☐ No	
MINIMUM DELIVERY REQUIREMENTS				
There is no minimum order requirement.				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		February 28, 2027
CURRENT VALUE	VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE		
\$4,836,762.61	\$120,000.00	\$4,956,762.61		
DESCRIPTION				
Effective June 1, 2020, this Contract is increased by \$120,000.00 for MDOS use.				
In addition, federal provisions are added to this Contract, per attached Federal Provisions Addendum.				
All other terms, conditions, specifications and pricing remain the same. Per Contractor and agency agreement, and DTMB, Central Procurement Services approval.				

Federal Provisions Addendum

This addendum applies to purchases that will be paid for in whole or in part with funds obtained from the federal government. The provisions below are required, and the language is not negotiable. If any provision below conflicts with the State's terms and conditions, including any attachments, schedules, or exhibits to the State's Contract, the provisions below take priority to the extent a provision is required by federal law; otherwise, the order of precedence set forth in the Contract applies. Hyperlinks are provided for convenience only; broken hyperlinks will not relieve Contractor from compliance with the law.

1. Equal Employment Opportunity

If this Contract is a "**federally assisted construction contract**" as defined in [41 CFR Part 60-1.3](#), and except as otherwise may be provided under [41 CFR Part 60](#), then during performance of this Contract, the Contractor agrees as follows:

(1) The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:

Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

(2) The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.

(3) The Contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the Contractor's legal duty to furnish information.

(4) The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(5) The Contractor will comply with all provisions of [Executive Order 11246](#) of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

(6) The Contractor will furnish all information and reports required by [Executive Order 11246](#) of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(7) In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this Contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in [Executive Order 11246](#) of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in [Executive Order 11246](#) of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(8) The Contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of [Executive Order 11246](#) of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance:

Provided, however, that in the event a Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: *Provided*, that if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

2. Davis-Bacon Act (Prevailing Wage)

If this Contract is a **prime construction contracts** in excess of \$2,000, the Contractor (and its Subcontractors) must comply with the Davis-Bacon Act ([40 USC 3141-3148](#)) as supplemented by Department of Labor regulations ([29 CFR Part 5](#), "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"), and during performance of this Contract the Contractor agrees as follows:

- (1) All transactions regarding this contract shall be done in compliance with the Davis-Bacon Act (40 U.S.C. 3141- 3144, and 3146-3148) and the requirements of 29C.F.R. pt. 5 as may be applicable. The contractor shall comply with 40 U.S.C. 3141-3144, and 3146-3148 and the requirements of 29 C.F.R. pt. 5 as applicable.
- (2) Contractors are required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor.
- (3) Additionally, contractors are required to pay wages not less than once a week.

3. Copeland "Anti-Kickback" Act

If this Contract is a contract for construction or repair work in excess of \$2,000 where the Davis-Bacon Act applies, the Contractor must comply with the Copeland "Anti-Kickback" Act ([40 USC 3145](#)), as supplemented by Department of Labor regulations ([29 CFR Part 3](#), "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"), which prohibits the Contractor and subrecipients from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any

part of the compensation to which he or she is otherwise entitled, and during performance of this Contract the Contractor agrees as follows:

- (1) Contractor. The Contractor shall comply with 18 U.S.C. §874, 40 U.S.C. § 3145, and the requirements of 29 C.F.R. pt. 3 as may be applicable, which are incorporated by reference into this contract.
- (2) Subcontracts. The Contractor or Subcontractor shall insert in any subcontracts the clause above and such other clauses as FEMA or the applicable federal awarding agency may by appropriate instructions require, and also a clause requiring the Subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract clauses.
- (3) Breach. A breach of the contract clauses above may be grounds for termination of the contract, and for debarment as a Contractor and Subcontractor as provided in 29 C.F.R. § 5.12.

4. Contract Work Hours and Safety Standards Act

If the Contract is **in excess of \$100,000** and **involves the employment of mechanics or laborers**, the Contractor must comply with [40 USC 3702](#) and [3704](#), as supplemented by Department of Labor regulations ([29 CFR Part 5](#)), as applicable, and during performance of this Contract the Contractor agrees as follows:

- (1) Overtime requirements. No Contractor or Subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
- (2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1) of this section the Contractor and any Subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such Contractor and Subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this section, in the sum of \$27 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this section.
- (3) Withholding for unpaid wages and liquidated damages. The State shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the Contractor or Subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2) of this section.
- (4) Subcontracts. The Contractor or Subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1) through (4) of this section and also a clause requiring the Subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this section.

5. Rights to Inventions Made Under a Contract or Agreement

If the Contract is funded by a federal "funding agreement" as defined under [37 CFR §401.2 \(a\)](#) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the

substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement," the recipient or subrecipient must comply with [37 CFR Part 401](#), "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

6. Clean Air Act and the Federal Water Pollution Control Act

If this Contract is **in excess of \$150,000**, the Contractor must comply with all applicable standards, orders, and regulations issued under the Clean Air Act ([42 USC 7401-7671q](#)) and the Federal Water Pollution Control Act ([33 USC 1251-1387](#)), and during performance of this Contract the Contractor agrees as follows:

Clean Air Act

1. The Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq.
2. The Contractor agrees to report each violation to the State and understands and agrees that the State will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency or the applicable federal awarding agency, and the appropriate Environmental Protection Agency Regional Office.
3. The Contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA or the applicable federal awarding agency.

Federal Water Pollution Control Act

1. The Contractor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.
2. The Contractor agrees to report each violation to the State and understands and agrees that the State will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency or the applicable federal awarding agency, and the appropriate Environmental Protection Agency Regional Office.
3. The Contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA or the applicable federal awarding agency.

7. Debarment and Suspension

A "contract award" (see [2 CFR 180.220](#)) must not be made to parties listed on the government-wide exclusions in the [System for Award Management](#) (SAM), in accordance with the OMB guidelines at [2 CFR 180](#) that implement [Executive Orders 12549](#) ([51 FR 6370; February 21, 1986](#)) and [12689](#) ([54 FR 34131; August 18, 1989](#)), "Debarment and Suspension." SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than [Executive Order 12549](#).

- (1) This Contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such, the Contractor is required to verify that none of the Contractor's principals (defined at 2 C.F.R. § 180.995) or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935).
- (2) The Contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.
- (3) This certification is a material representation of fact relied upon by the State. If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to the State, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.

- (4) The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

8. Byrd Anti-Lobbying Amendment

Contractors who apply or bid for an award of **\$100,000 or more** shall file the required certification in Exhibit 1 – Byrd Anti-Lobbying Certification below. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, officer or employee of Congress, or an employee of a Member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient who in turn will forward the certification(s) to the awarding agency.

9. Procurement of Recovered Materials

Under [2 CFR 200.322](#), Contractors must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act.

- (1) In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired—
 - a. Competitively within a timeframe providing for compliance with the contract performance schedule;
 - b. Meeting contract performance requirements; or
 - c. At a reasonable price.
- (2) Information about this requirement, along with the list of EPA- designated items, is available at EPA's Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>.
- (3) The Contractor also agrees to comply with all other applicable requirements of Section 6002 of the Solid Waste Disposal Act.

10. Additional FEMA Contract Provisions.

The following provisions apply to purchases that will be paid for in whole or in part with funds obtained from the Federal Emergency Management Agency (FEMA):

- (1) Access to Records. The following access to records requirements apply to this contract:
 - a. The Contractor agrees to provide the State, the FEMA Administrator, the Comptroller General of the United States, or any of their authorized representatives access to any books, documents, papers, and records of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts, and transcriptions.
 - b. The Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.
 - c. The Contractor agrees to provide the FEMA Administrator or his authorized representatives access to construction or other work sites pertaining to the work being completed under the contract.
 - d. In compliance with the Disaster Recovery Act of 2018, the State and the Contractor acknowledge and agree that no language in this contract is intended to prohibit audits or internal reviews by the FEMA Administrator or the Comptroller General of the United States.

(2) Changes.

See the provisions regarding modifications or change notice in the Contract Terms.

(3) DHS Seal, Logo, And Flags

The Contractor shall not use the DHS seal(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials without specific FEMA pre-approval.

(4) Compliance with Federal Law, Regulations, and Executive Orders

This is an acknowledgement that FEMA financial assistance will be used to fund all or a portion of the contract. The Contractor will comply with all applicable Federal law, regulations, executive orders, FEMA policies, procedures, and directives.

(5) No Obligation by Federal Government

The Federal Government is not a party to this contract and is not subject to any obligations or liabilities to the State, Contractor, or any other party pertaining to any matter resulting from the Contract.”

(6) Program Fraud and False or Fraudulent Statements or Related Acts

The Contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to the Contractor’s actions pertaining to this contract.

Exhibit 1 - Byrd Anti-Lobbying Certification

Contractor must complete this certification if the purchase will be paid for in whole or in part with funds obtained from the federal government and the purchase is greater than \$100,000.

APPENDIX A, 44 C.F.R. PART 18 – CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, Election Systems & Software Inc., certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. Chap. 38, Administrative Remedies for False Claims and Statements, apply to this certification and disclosure, if any.

Signature of Contractor's Authorized Official

Name and Title of Contractor's Authorized Official

Date



STATE OF MICHIGAN
CENTRAL PROCUREMENT SERVICES
 Department of Technology, Management, and Budget
 525 W. ALLEGAN ST., LANSING, MICHIGAN 48913
 P.O. BOX 30026 LANSING, MICHIGAN 48909

CONTRACT CHANGE NOTICE

Change Notice Number **5**

to

Contract Number **071B7700120**

CONTRACTOR	ELECTION SYSTEMS & SOFTWARE INC
	11208 John Galt Blvd
	Omaha, NE 68137
	Wil Wesley
	954-816-0042
	wil.wesley@essvote.com
	CV0056231

STATE	Program Manager	David Tarrant	MDOS
		517-373-2543	
		tarrantd2@michigan.gov	
	Contract Administrator	Sue Ciecwa	DTMB
		(517) 249-0458	
		ciecwas@michigan.gov	

CONTRACT SUMMARY				
VOTING SYSTEM HARDWARE, FIRMWARE, SOFTWARE AND SERVICES - DEPARTMENT OF STATE				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE	
March 1, 2017	February 28, 2027	0 - 0 Year	February 28, 2027	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45 Days		Refer to Section 2.1 Time Frames		
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-Card ☐ PRC ☐ Other			☒ Yes ☐ No	
MINIMUM DELIVERY REQUIREMENTS				
There is no minimum delivery requirement.				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		February 28, 2027
CURRENT VALUE	VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE		
\$5,000,000.00	(\$163,237.39)	\$4,836,762.61		
DESCRIPTION				
Effective March 24, 2020, this Contract is decreased by \$163,237.39.				
Effective March 24, 2020, the parties agree to amend this Contract under Section 4. Change Control Process at Schedule A, Statement of Work at Section 5.1 Authorizing Document and Section 8.1 Invoice Requirements. (Changes are in bold)				
5.1 Authorizing Document				
The appropriate authorizing document for the Contract will be a written Purchase Order, which will be initiated at the State level for each county for each planned purchase period. All orders are subject to the State’s standard contract terms.				
Initial purchase orders will be placed by State purchasing officials. Counties and local jurisdiction election officials (county, city and township clerks) will be eligible to purchase additional voting systems and voting system components, over and above what is included in the State-issued purchase order at the established Contract prices and terms. Refer to Contract Terms, Section 14 Extended Purchasing Program. Also, Refer to Section 7.1 Acceptance, Inspection and Testing “Counties will work with the State to finalize the list of jurisdictions that will accept delivery and implement the new voting system for each planned purchase phase. The State will initiate each county-based Purchase Order (PO) for each purchase phase based on this plan.”				

The State will generate each Purchase Order only after a finalized funding plan has been established for each county and local jurisdiction in the county; after a Grant Agreement has been executed with the county and each local jurisdiction which specifies ownership and payment obligations for the county and each local jurisdiction; and the State has received payment from the county and each local jurisdiction for their individual portions of the county/local funding plan.

As an alternative to counties and local jurisdictions making direct payments to the State for the local funding component, the Contractor may execute an agreed upon payment plan between the Contractor, county, and local jurisdictions within the county. Any separate agreements of this type must be transmitted to the State Program Manager prior to issuance of the Purchase Order.

Upon issuance of each State-issued PO on behalf of the county, the Contractor will work with each county to finalize each jurisdiction's delivery plan, including timeframes and locations.

In some years, the State may offer cost share incentives. When this occurs, purchases may be initiated at the State, County or Local level for each county or local jurisdiction and may be authorized by the MDOS, Bureau of Elections through an application process, in lieu of a purchase order. This process would conclude with a Contractor's proposal signed by the parties. When cost share incentives are offered, the Contractor must include the following on the Contractor's proposal, prior to sending it to the jurisdiction: "Terms and Conditions are Pursuant to Contract No. 071B7700120."

Section 8.1 Invoice Requirements

All invoices submitted to the State must include: (a) contract number; (b) Purchase Order number; (c) county name; (d) listing of all delivered components, itemized and listed by jurisdiction; (e) unit prices; (f) total price per item, per jurisdiction; (g) ship to address; (h) jurisdiction contact; (i) total price per jurisdiction; and (k) total price per county / Purchase Order (less any agreed upon payment arrangement made between the Contractor and the County).

Invoices must be forwarded to the State only after all equipment and components listed on the Purchase Order have been delivered. The State will release payment to the Contractor for the State portion of the invoice amount, upon the successful completion of acceptance testing and submission of completed Receipt/Acceptance forms from the county and each local jurisdiction listed on the Purchase Order. Note that the State portion of the invoice amount will equal 100% of the total invoice if the State has collected the local funding component up front.

In some years, the full payment may be made by the State, but when the State offers cost share Incentives, all or a portion of the payment may be made by counties or local jurisdictions. When counties and/or local jurisdictions will be responsible for payment, a separate written invoice between the Contractor and county/local jurisdiction must also be issued. When this occurs, one invoice must be issued to the local jurisdiction or county making the purchase. The other invoice must be submitted monthly to the State and include all election equipment purchased during that calendar month, listing each local jurisdiction/County that made the purchase and the dollar amount the State has agreed to pay. Invoices must also include the required information listed in paragraph one above of Section 8.1 Invoice Requirements. The Contractor's proposal may be used in lieu of a purchase order, as specified in paragraph six of Section 5.1 Authorizing Document. The percentage the State pays may vary between years, at the State's discretion.

All other terms, conditions, specifications, and pricing remain the same. Per Contractor and agency agreement, and DTMB, Central Procurement Services approval.

STATE OF MICHIGAN
CENTRAL PROCUREMENT SERVICES
 Department of Technology, Management, and Budget
 525 W. ALLEGAN ST., LANSING, MICHIGAN 48913
 P.O. BOX 30026 LANSING, MICHIGAN 48909



CONTRACT CHANGE NOTICE

Change Notice Number **4**
 to
 Contract Number **071B7700120**

CONTRACTOR	ELECTION SYSTEMS & SOFTWARE INC
	11208 John Galt Blvd
	Omaha, NE 68137
	Wil Wesley
	954-816-0042
	wil.wesley@essvote.com
	CV0056231

STATE	Program Manager	David Tarrant	MDOS
		517-373-2543	
		tarrantd2@michigan.gov	
	Contract Administrator	Sue Cieciva	DTMB
		(517) 249-0458	
		ciecivas@michigan.gov	

CONTRACT SUMMARY					
VOTING SYSTEM HARDWARE, FIRMWARE, SOFTWARE AND SERVICE - DEPARTMENT OF STATE					
INITIAL EFFECTIVE DATE		INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE	
March 1, 2017		February 28, 2027	0 - 0 Year	February 28, 2027	
PAYMENT TERMS			DELIVERY TIMEFRAME		
Net 45 Days			Refer to Section 2.1 Time Frames		
ALTERNATE PAYMENT OPTIONS				EXTENDED PURCHASING	
☐ P-Card		☐ PRC	☐ Other	☒ Yes ☐ No	
MINIMUM DELIVERY REQUIREMENTS					
There is no minimum order requirement.					
DESCRIPTION OF CHANGE NOTICE					
OPTION	LENGTH OF OPTION		EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐			☐		February 28, 2027
CURRENT VALUE		VALUE OF CHANGE NOTICE		ESTIMATED AGGREGATE CONTRACT VALUE	
\$5,000,000.00		\$0.00		\$5,000,000.00	

DESCRIPTION
Effective June 12, 2019, certain hardware and component parts of ES&S ExpressVote Hardware Version 1.0 Accessible Voting System have reached end of life. Therefore, ES&S ExpressVote Hardware Version 1.0 is no longer available for purchase by counties and local jurisdictions and is replaced with ES&S ExpressVote Hardware Version 2.1, per attached ES&S ExpressVote Hardware Changes and Pricing Summary and revised Schedule C-Pricing, Cost Table 1, in accordance with Section 9. Invoicing and Payment, paragraph e. Firm Pricing in the Contract Terms. <u>ExpressVote Version 1.0 Repairs and Replacements</u> Contractor must continue to provide all service and maintenance work on ExpressVote Version 1.0 units currently in the field under warranty without additional cost under the service and maintenance obligations under this Contract, including as set forth in Section 1.6 of the Statement of Work. Contractor maintains an inventory of ExpressVote Version 1.0 units for the purpose of servicing units in the field to be used in the event a repair or replacement needs to be made. After this inventory is depleted, Contractor must provide ExpressVote Hardware Version 2.1 at no charge to the county or jurisdiction in the event a replacement is needed. Effective February 8, 2019, the following change is made to Schedule A Statement of Work and in accordance with the Contract Terms, Section 10. Performance of Services, paragraph d. Contractor's Key Personnel:

The State Customer Service Manager appointed by the Contractor specified in Section 3.1 Contractor Representatives and Section 9.6 Key Personnel has been changed to:

State Customer Service Manager

Lauri Braid

Phone: 586-292-6735

Email: lauri.braid@essvote.com

Lauri Braid, a Corunna, Michigan resident, will work with and support counties and local jurisdictions on an ongoing basis.

Contract Terms, Section 33. Nondiscrimination is hereby changed to:

33.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.

All other terms, conditions, specifications and pricing remain the same. Per Contractor and agency agreement and DTMB, Central Procurement Services approval.

ES&S ExpressVote Hardware Changes and Pricing Summary

Description of the Major Hardware Changes as Highlighted Below:

- Replaced and upgraded end of life CPU
 - o 1.0 GHz to 1.6 GHz
 - o Operating System upgraded from WinCE 6.0 to WinEmb7
 - o Expanded USB memory
- Replaced and upgraded end of life Display
 - o Moved from Compact Fluorescent Backlight to LED
 - o Improved cabling to support the LED Display
- Election Result Security
 - o Added thumb drive cover
- FCC / Electromagnetic Compatibility
 - o Added ferrite cores, EMI gasketing, cable shielding and routing
 - o Relocated USB memory

Bill of Material Component Changes

Component Description	Version 1.0		Version 2.1	
	Part #	Cost	Part #	Cost
BKT M217 Power Inlet & USB SPCC ZP	01-072-00567	\$0.43	01-072-00727	\$1.94
CVR M208 INNO Disk & USB Port SPCC ZP	01-072-00660	\$0.71	01-097-00500	\$1.59
ASSY MECH M217 PMB-SPE Power CBL w/Ferrite	01-094-00175	\$1.91	01-097-00332	\$3.15
ASSY CBL M208 BACKLIGHT INVERTER	01-094-00179	\$1.91		
ASSY MECH M217 FPB DSA-LED CBL w/Ferrite Core	01-094-00181	\$2.25	01-097-00343	\$3.41
ASSY CBL M217 SPE DATA USB A TO B 200mmL BLK w/ Ferrite	01-094-00183	\$1.14	01-094-00296	\$6.74
ASSY MECH M217 ExpVt Video CBL w/Ferrite Core	01-097-00268	\$4.65	01-097-00336	
ASSY CBL M208 Ethernet RJ45 Jack TO Plug L381mm	01-094-00201	\$3.25		
ASSY CBL M217 IOB-KEYPAD W/Core	01-094-00203	\$0.64	01-094-00420	\$1.62
ASSY CBL M217 USB IOB TO Rear PNL BKT 380mmL			01-094-00281	\$1.99
ASSY CBL M217 PMB TO Rear Panel			01-094-00294	\$6.48
ASSY MECH M217 IOB With SBC Installed	01-096-00157	\$256.00	01-097-00323	\$455.95
ASSY PCB M217 FPB (Front Panel Board)	01-096-00161	\$6.97	01-096-00265	\$12.03
ASSY PCB M217 PMB (Power Management Board)	01-096-00221	\$48.08	01-096-00268	\$66.53
ASSY MECH M217 Paper Path Module(PPM)	01-097-00167	\$245.87	01-097-00328	\$375.28
ASSY MECH M217 Top Housing & LCD/Touch	01-097-00233	\$185.35	01-097-00499	\$203.69
ASSY MECH M217 BOTTOM HOUSING	01-097-00234	\$26.59	01-097-00341	\$56.28
ASSY MECH M217 INNO DISK & USB COVER w/ nut	01-097-00235	\$21.61	01-097-00331	\$15.58
S/W M208 Windows Embedded CE 6.0 Pro		\$14.00		
S/W M217 Windows Embedded 7				\$79.00
		\$821.36		\$1,291.26

Cost Table 1. Precinct Tabulators and Accessible Voting Systems

	PURCHASE AND INITIAL SERVICE / MAINTENANCE PERIOD (ACQUISITION YEAR + 4 YEARS)			EXTENDED SERVICE / MAINTENANCE PERIOD (ANNUAL PAYMENT – UP TO 5 ADDITIONAL YEARS)
	Per-Unit Purchase Price	Incentive Program (existing equipment per-unit trade- in discount) See Schedule A Section 1.9	Per-Unit Purchase Price with Discount	Per-Unit Annual Extended Service/Maintenance Price
Precinct Tabulators – • 1 at State level (no charge) • 1 per county • 1 per precinct • AVCB Tabulators ES&S DS200 Tabulator Includes: - Plastic Ballot Box with Steel Door and e-Bin - Internal Backup Battery - Paper Roll - 4GB USB Memory Device	\$5,299.00	(\$1,106.00)	\$4,193.00	\$220.00
Accessible Voting System Version 2.1 (1 per polling place)** ES&S ExpressVote Includes: - Soft-sided Case - Internal Backup Battery - Detachable ADA Keypad - 4GB USB Memory Device - Headphones - Privacy Screen <u>which attaches to the AutoMARK table.</u>	\$3,720.00	(\$0.00)	\$3,720.00	\$175.00

Polling places with more than 2 precincts may receive an additional accessible voting system at the price listed above.

Note: ES&S will provide one (1) each of the DS200 Tabulator and ExpressVote Accessible Voting Terminal to each County at no charge. Additional backup units may be purchased from ES&S at a price no higher than the prices shown in Cost Table 1 above.



STATE OF MICHIGAN
ENTERPRISE PROCUREMENT
Department of Technology, Management, and Budget
525 W. ALLEGAN ST., LANSING, MICHIGAN 48913
P.O. BOX 30026 LANSING, MICHIGAN 48909

CONTRACT CHANGE NOTICE

Change Notice Number **3**

to

Contract Number **071B7700120**

CONTRACTOR	Election Systems & Software, LLC
	11208 John Galt Blvd
	Omaha, NE 68137
	Wil Wesley
	954-816-0042
	wil.wesley@essvote.com
	CV0056231

STATE	Program Manager	David Tarrant	DOS
		517-373-2543	
		tarrantd2@michigan.gov	
	Contract Administrator	Sue Cieciva	DTMB
		(517) 249-0458	
		ciecivas@michigan.gov	

CONTRACT SUMMARY				
VOTING SYSTEM HARDWARE, FIRMWARE, SOFTWARE AND SERVICE - DEPARTMENT OF STATE				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
March 1, 2017	February 28, 2027	0 - 0 Year	February 28, 2027	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45 Days		Refer to Section 2.1 Time Frames		
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-Card ☐ Direct Voucher (DV) ☐ Other			☒ Yes ☐ No	
MINIMUM DELIVERY REQUIREMENTS				
There is no minimum order requirement.				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		February 28, 2027
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE	
\$5,000,000.00		\$0.00	\$5,000,000.00	
DESCRIPTION				
Effective March 28, 2018, the Program Manager has been changed to David Tarrant. All other terms, conditions, specifications and pricing remain the same. Per contractor and agency agreement, and DTMB Procurement approval.				



STATE OF MICHIGAN
ENTERPRISE PROCUREMENT
 Department of Technology, Management, and Budget
 525 W. ALLEGAN ST., LANSING, MICHIGAN 48913
 P.O. BOX 30026 LANSING, MICHIGAN 48909

CONTRACT CHANGE NOTICE

Change Notice Number **2**

to

Contract Number **071B7700120**

CONTRACTOR	Election Systems & Software, LLC
	11208 John Galt Blvd
	Omaha, NE 68137
	Wil Wesley
	954-816-0042
	wil.wesley@essvote.com
	*****7567

STATE	Program Manager	Sally Williams	DOS
		517-373-2540	
		WilliamsS1@Michigan.gov	
	Contract Administrator	Sue Cieciva	DTMB
		(517) 284-7007	
		cieciwas@michigan.gov	

CONTRACT SUMMARY				
VOTING SYSTEM HARDWARE, FIRMWARE, SOFTWARE AND SERVICE - DEPARTMENT OF STATE				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
March 1, 2017	February 28, 2027	0 - 0 Year	February 28, 2027	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45 Days		Refer to Section 2.1 Time Frames		
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-Card ☐ Direct Voucher (DV) ☐ Other			☒ Yes ☐ No	
MINIMUM DELIVERY REQUIREMENTS				
There is no minimum order requirement.				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		February 28, 2027
CURRENT VALUE	VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE		
\$5,000,000.00	\$0.00	\$5,000,000.00		
DESCRIPTION				
Effective January 30, 2018, the following item is added to this Contract, per Schedule C Pricing, Cost Table 4 Component Replacement / Additional Parts attached.				
Ballot Container Seals (Item #97-10021-00) DS2, Zip Tie State of MI Serialized w/Security Housing \$3.27 each. Serialized random (no beginning/ending numbers specified). 5' long by 1/4" wide x 1/16" thick - Red snap seal. State of Michigan indicated on seal. Very heavy-duty plastic. Purpose is to seal ballot containers after an election. Serial number and "State of Michigan" embossed on seal.				
All other terms, conditions, specifications, and pricing remain the same. Per Contractor and Agency agreement, and DTMB Procurement approval.				

**Cost Table 4. Component Replacement / Additional Parts**

All applicable and available component parts for the Contractor's system are listed below. For each component part, the Contractor has identified the source for obtaining the part and whether the part is available commercially off the shelf (COTS).

NOTE: If alternative purchase sources are available, the State, counties and local jurisdictions reserve the right to purchase from those sources.

Contractor must also list all other system features available in their proposed system, if the cost for such features have not been included elsewhere in this Cost Proposal.

Product	Estimated Life (Years)	Purchase Source (Indicate if COTS)	Per-Unit Price
Memory Devices (specify make/model)	Note: ES&S has listed Optional Items, Consumable/Replacement Parts, and COTS Components of the System by Equipment Type Below.		
Printer Cartridges			
Paper Rolls			
Backup Batteries			
Components specific to the Accessible Voting System (list each separately)			
Components specific to the high-speed AVCB tabulator, if offered (list each separately)			
Security Seals / Other Security items			
OTHER (list any/all other available component / replacement parts, including all COTS available systems/components):			
DS200:			
Optional Items:			
Landline Modem (Item #57601)	Life of DS200	Avnet	\$150.00 Price is based upon factory install with initial order
Wireless Modem (Select from AT&T (#57607), Sprint (#57603), or Verizon (#57605) wireless capability)	Life of DS200	Avnet	\$249.00 Price is based upon factory install with initial order
DS200 Blue Tote Bin/Ballot Storage Box (Item #00074)	N/A. Replace if damaged	Pivot International	\$175.00
UPS Battery Backup-BR24BPG (Item #7500)	Average Battery Life of Three (3) to Five (5) Years depending upon usage	Varies COTS	\$205.00
Consumable/Replacement Items:			
Printer Ink/Ribbon	Not Required	Not Required	Not Required
Paper Roll (Item #2320)	N/A. Replace as needed.	NCNR 9078-1514	\$1.12
Ballot Marking Pens (Item #6100)	N/A. Replace as needed.	BIC Grip Roller Ball Pen, 0.7mm,	\$0.95



Product	Estimated Life (Years)	Purchase Source (Indicate if COTS)	Per-Unit Price
		Black COTS – Custom ES&S Logo	
Tamper Evident Seal/Label: 100 Label Roll, Barcode 1" x 3-3/8" Non-Residue Tamper Evident Labels – Blue (Item #800-0084)	As Needed	Intab COTS	\$44.95
8.4" Numbered Pull-Tite Seal-Blue (Item #RINS2)	As Needed	Rifkin COTS	\$0.31
Ballot Container Seals (Item #97-10021-00) DS2, Zip Tie State of MI Serialized w/Security Housing, each.	As Needed	ES&S	\$3.27
DS200 Back-Up Battery (Installed by Trained ES&S Personnel Only)-Price if Installed During a Scheduled Preventative Maintenance Visit (Item #290-00038)	Average Life of 5-Years	Zeus Battery Products, Inc.	\$170.00
DS200 Coin Cell Motherboard Battery (Installed by Trained ES&S Personnel Only)-Price if Installed During a Scheduled Preventative Maintenance Visit	Average Life of 5-Years	Energizer Coin Cell; CR 2032 COTS	Included in Hardware Maintenance
DS200 4GB Thumb Drive (Additional) (Item #2396)	Up to 10,000 writes/erases	Delkin Devices with ES&S Logo and Special Coding	\$105.00
DS200 Ballot Box Key (Item #340-00030)	As needed if lost or broken	Varies COTS	\$0.58
DS200 Unit Key (Item #2213)	As needed if lost or broken	Varies COTS	\$4.25
DS200 AC Power Cord (Item #2288)	As needed if lost or broken	Varies COTS	\$4.00
COTS Components of the System:			
None			
DS850:			
Consumable/Replacement Items:			
OkiData B432DN Toner	N/A. Replace as needed.	Varies COTS	\$121.50
OkiData ML420 Printer Ribbon	N/A. Replace as needed.	Varies COTS	\$8.26
1-Part Printer Paper (Item #ES-PP1)	N/A. Replace as needed.	Varies COTS	\$48.10
8 1/2" x 11" Standard Printer Paper (500 Sheets) (Item #ES-PP)	N/A. Replace as needed.	Varies COTS	\$3.55



Product	Estimated Life (Years)	Purchase Source (Indicate if COTS)	Per-Unit Price
DS850 Tool Kit (Item #ES-850TOOL)	N/A. Replace if lost.	Varies. ES&S Assembled Kit	\$140.56
DS850 Table/Cart Assy (Item #6823)	N/A. Replace if damaged.	SourceOne	\$1,465.00
UPS Battery Backup (Item #6969)	Average Battery Life of Three (3) to Five (5) Years depending upon usage	APC Power Saving Back-UPS Pro 1500 -Futureware Dist., Inc. Proprietary (Sourced from ES&S)	\$240.00
Motherboard Battery (Installed by Trained ES&S Personnel Only)-Price if Installed During a Scheduled Preventative Maintenance Visit	Average Battery Life of 6-10 Years	Energizer Coin Cell; CR 2032 COTS	Included in Hardware Maintenance
DS850 8GB Thumb Drive (Additional) (Item #2397)	Up to 10,000 writes/erases	Delkin Devices with ES&S Logo and Special Coding	\$165.00
COTS Components of the System:			
Okidata B432DN Printer	N/A. Replace if damaged or no longer functioning	Varies COTS	\$445.75
Okidata ML420 Printer	N/A. Replace if damaged or no longer functioning	Varies COTS	\$474.25
DS450:			
Consumable/Replacement Items:			
OkiData ML420 Printer Ribbon	N/A. Replace as needed.	Varies COTS	\$8.26
Dell 2810 Toner	N/A. Replace as needed.	Varies COTS	\$69.10
1-Part Printer Paper (Item #ES-PP1)	N/A. Replace as needed.	Varies COTS	\$48.10
8 1/2" x 11" Standard Printer Paper (500 Sheets) (Item #ES-PP)	N/A. Replace as needed.	Varies COTS	\$3.55
UPS Battery Backup (Item #6969)	Average Battery Life of Three (3) to Five (5) Years depending upon usage	APC Power Saving Back-UPS Pro 1500 -Futureware Dist., Inc. Proprietary (Sourced from ES&S)	\$240.00
Motherboard Battery (Installed by Trained ES&S Personnel Only)-Price if Performed During a Scheduled Preventative Maintenance Visit	Average Battery Life of 6-10 Years	Energizer Coin Cell; CR 2032 COTS	Included in Hardware Maintenance
DS450 8GB Thumb Drive (Additional) (Item #2397)	Up to 10,000 writes/erases	Delkin Devices with ES&S Logo and Special Coding	\$165.00
COTS Components of the System:			
Dell 2810 Printer	N/A. Replace if damaged or no longer	Varies	\$198.50



Product	Estimated Life (Years) functioning	Purchase Source (Indicate if COTS) COTS	Per-Unit Price
Okidata ML420 Printer	N/A. Replace if damaged or no longer functioning	Varies COTS	\$474.25
ExpressVote:			
Optional Items:			
ExpressLink Activation Card Printer (Item #4200)	N/A. Replace if damaged or no longer functioning	Microcom Corporation	\$725.00
Consumable/Replacement Items:			
Printer Ink/Ribbon	Not Required	Not Required	Not Required
Tamper Evident Seal/Label: 100 Label Roll, Barcode 1" x 3-3/8" Non- Residue Tamper Evident Labels – Blue (Item #800-0084)	As Needed	Intab COTS	\$44.95
8.4" Numbered Pull-Tite Seal-Blue (Item #RINS2)	As Needed	Rifkin COTS	\$0.31
Privacy Screen for ExpressVote Unit (Attaches to existing AutoMARK Table) (Item #59-00003-01)	N/A. Replace if damaged	Election Data Corporation	\$25.00
Thermal Activation Cards- <u>Numbered and Stubbed</u> (Sold in packages of 250)	One use per Voter		
ExpressVote Thermal Activation Card-11 inch	One use per Voter	Varies COTS (Must Meet ES&S Specifications)	\$28.10/pkg
ExpressVote Thermal Activation Card-14 inch	One use per Voter	Varies COTS (Must Meet ES&S Specifications)	\$34.00/pkg
ExpressVote Thermal Activation Card-17 inch	One use per Voter	Varies COTS (Must Meet ES&S Specifications)	\$40.35/pkg
ExpressVote Thermal Activation Card-19 inch	One use per Voter	Varies COTS (Must Meet ES&S Specifications)	\$43.65/pkg



Product	Estimated Life (Years)	Purchase Source (Indicate if COTS)	Per-Unit Price
Thermal Activation Cards- Blank (Sold in packages of 250)	One use per Voter		
ExpressVote Thermal Activation Card-11 inch (Item #70-00001)	One use per Voter	Varies COTS (Must Meet ES&S Specifications)	\$22.50/pkg
ExpressVote Thermal Activation Card-14 inch (Item #70-00002)	One use per Voter	Varies COTS (Must Meet ES&S Specifications)	\$23.75/pkg
ExpressVote Thermal Activation Card-17 inch (Item #70-00003)	One use per Voter	Varies COTS (Must Meet ES&S Specifications)	\$26.25/pkg
ExpressVote Thermal Activation Card-19 inch (Item #70-00004)	One use per Voter	Varies COTS (Must Meet ES&S Specifications)	\$30.00/pkg
Headphone/Headset (Item #86002)	N/A. Replace as headphones become damaged or excessively dirty	Avid COTS (Must Meet ES&S Specifications)	\$3.95
Headphone Sanitary Ear Cover (Item #ES-EARCOVER)	One use per Voter	Avid COTS (Must Meet ES&S Specifications)	\$0.15
ExpressVote 4GB Thumb Drive (Additional) (Item #2396)	Up to 10,000 writes/erases	Delkin Devices with ES&S Logo and Special Coding	\$105.00
ExpressVote Back-Up Battery (Installed by Trained ES&S Personnel Only)-Price if Installed During a Scheduled Preventative Maintenance Visit (Item #290- 00038)	Average Battery Life of Five (5) Years	5S2PESS1	\$170.00
ExpressVote Coin Cell Battery (Installed by Trained ES&S Personnel Only)-Price if Installed During a Scheduled Preventative Maintenance Visit	Average Battery Life of Five (5) Years	Energizer Coin Cell; CR 2032 COTS	Included in Hardware Maintenance
COTS Components of the System:			
None			



Product	Estimated Life (Years)	Purchase Source (Indicate if COTS)	Per-Unit Price
General Supplies:			
Touch Screen Cleaning Kit (Item #6500)	N/A. Replace as needed.	Varies COTS	\$8.05
Wire Roto 8" Tooless Seal (Used if sealing the flashcard door) (Item #10002)	N/A. Replace as needed.	Varies COTS	\$0.89
ADA Stylus-Ball Gripper w/tip (Item #91706)	N/A. Replace as needed.	Varies COTS	\$5.31
Alcohol Isopropyl (Item #ES-AL)	N/A. Replace as needed.	Varies COTS	\$3.95
Canned Air (Item #ES-AR)	N/A. Replace as needed.	Varies COTS	\$5.25
Optional Services:			
Initial EMS Software Installation	N/A	ES&S Service	\$2,300.00/day
Firmware/Software Update Installation	N/A	ES&S Service	No-Charge (See Note 4)
Additional Training	N/A	ES&S Service	\$1,250.00/day

Optional Software:			
Regional Results Transmission (5-Year Initial License Fee is a COUNTY ONLY FEE) Annual Fee for Years 6-10	N/A	ES&S Software	\$22,700.00 \$5,210 per county
ExpressLink (5-Year Initial License Fee)	N/A	ES&S Software	\$15,250.00
Ballot On Demand Items:			
Balotar Ballot-On-Demand System Includes: - Compact Printer w/Firmware - Laptop Computer - Printer/Software Training - Installation - Single Request Software (SRS) - eBalotar for Automated eMail Software - Multiple Request Software (MRS) - Shipping and Handling to Customer Loading Dock	5+ Years depending upon usage	OkiData Device with Special ES&S Features and Firmware	\$13,995.00



Additional Printer for Balotar BOD System (Includes Shipping and Handling to Customer Loading Dock)	5+ Years depending upon usage	OkiData Device with Special ES&S Features and Firmware	\$2,975.00
Balotar Ballot Processing Fee (Black Ink Only) See Note 2	N/A	ES&S Service Fee	\$0.45 per ballot
Balotar Ballot Processing Fee (Color Ink) See Note 2	N/A	ES&S Service Fee	\$0.55 per ballot
Election Set-Up Fee per Election Event	N/A	ES&S Service Fee	Remote Access: \$250.00 per election set-up + \$1.00 per unique PDF (up to 4 computers) \$40.00 per computer over 4 units On-Site: \$1,575.00 per day per person

Cost Table 4 Notes:

Note 1: Contractor has included pricing for the most commonly requested optional items and consumable items purchased from ES&S in support of the specific equipment offerings. There may be other items the Jurisdictions may want to purchase that are not listed above. Should a Jurisdiction decide to order any product not listed in our above pricing, ES&S will invoice the Jurisdiction at the then current price.

Note 2: Balotar Ballot Processing Fees include toner, waster toner boxes, drums, transfer belts, fusers, blank ballot stock, hardware break/fix maintenance, and consumables and blank ballot stock shipping and handling.

Note 3: Shipping and Handling is not including in pricing in Cost Table 4 unless specifically stated and will be billed as a separate line item on the invoice.

Note 4: Firmware/Software updates will be installed as part of a preventative maintenance visit. Should circumstances warrant installation prior to the next scheduled preventative maintenance service date, the updates will be installed on a date mutually agreed upon between ES&S and the County.

Note 5: Buy one get one FREE. For those Counties selecting ES&S as their vendor, and making a buying decision before June 30, 2017; ES&S will provide one free DS200 Blue Tote Bin/Ballot Storage Box for every DS200 Blue Tote Bin/Ballot Storage Box purchased at regular price (\$175.00 per unit).

Note 6: Regional Results Transmission is a software application that can be installed on any Windows 7 computer. It can be used to transmit results from a DS200 election stick directly to the county. It is very similar to using a DS200 with an internal wireless modem to transfer results, only instead of using an internal wireless modem, the stick with results is removed from the DS200 after poll closing and inserted into a computer running the Regional Results application. Regional Results processes the data on the stick and automatically transfers the results to the county. It does this by establishing a direct Secure File Transfer Protocol (SFTP) connection to the county's secure server.

Using Regional Results Transmission is not mandatory but has many helpful uses that could benefit Michigan counties and local jurisdictions. The first example involves a county that chooses not to use internal wireless modems in their DS200's. After the polls have been closed, the DS200 results sticks could be driven to the local jurisdiction's election headquarters. Using Regional Results, the locals could quickly and securely transmit all of their election results directly to the county just by inserting the sticks into the Regional Results computer. A second example involves Michigan Counties using the DS200 at their AV Counting Board locations, who could transmit results directly to the county using Regional Results. And finally, the Regional Results application can be used to supplement wireless modemming directly from the DS200's. Many of our customers who modem from the DS200 choose to set up a few "regional transmission sites" around their county. These locations are for



emergency use only should the DS200 be unable to connect to a cellular tower due to a weak signal. In that situation, the pollworker removes the results USB stick from the DS200 and brings it to the nearest regional site, where the data can be securely transferred to the county using the Regional Results application.

Note 7: ExpressLink works with the ExpressVote Activation Card Printer. It is a software application that is typically used at the voter check in station. It is used to print a small header on the ExpressVote card that identifies the voter's ballot style. When inserted into the ExpressVote, the correct ballot style is automatically displayed on the screen without any assistance from a pollworker. If a county chooses not to use ExpressLink, voters would insert a completely blank card into the ExpressVote and the voter's correct ballot style must be selected on the touchscreen.



STATE OF MICHIGAN
ENTERPRISE PROCUREMENT
 Department of Technology, Management, and Budget
 525 W. ALLEGAN ST., LANSING, MICHIGAN 48913
 P.O. BOX 30026 LANSING, MICHIGAN 48909

CONTRACT CHANGE NOTICE

Change Notice Number **1**

to

Contract Number **071B7700120**

CONTRACTOR	Election Systems & Software, LLC
	11208 John Galt Blvd
	Omaha, NE 68137
	Wil Wesley
	954-816-0042
	wil.wesley@essvote.com
	*****7567

STATE	Program Manager	Sally Williams	DOS
		517-373-2540	
		WilliamsS1@Michigan.gov	
	Contract Administrator	Sue Ciecwa	DTMB
		(517) 284-7007	
		ciecwas@michigan.gov	

CONTRACT SUMMARY				
VOTING SYSTEM HARDWARE, FIRMWARE, SOFTWARE AND SERVICE - DEPARTMENT OF STATE				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
March 1, 2017	February 28, 2027	0 - 0 Year	February 28, 2027	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45 Days		Refer to Section 2.1 Time Frames		
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-Card ☐ Direct Voucher (DV) ☐ Other			☒ Yes ☐ No	
MINIMUM DELIVERY REQUIREMENTS				
There is no minimum order requirement.				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		February 28, 2027
CURRENT VALUE	VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE		
\$0.00	\$5,000,000.00	\$5,000,000.00		
DESCRIPTION				
Effective April 18, 2017, this Contract is increased by \$5,000,000.00 for Department of State use. All other terms, conditions, specifications and pricing remain the same. Per contractor and agency agreement, DTMB Procurement approval, and State Administrative Board approval on January 24, 2017.				



STATE OF MICHIGAN ENTERPRISE PROCUREMENT

Department of Technology, Management, and Budget

525 W. Allegan, Lansing MI 48913
P.O. Box 30026, Lansing, MI 48909

CONTRACT NO. **071B7700120**

between

THE STATE OF MICHIGAN
and

CONTRACTOR	Election Systems & Software, LLC
	11208 John Galt Blvd.
	Omaha, NE 68137
	Wil Wesley
	954-816-0042
	wil.wesley@essvote.com
	7567

STATE	Program Manager	Sally Williams	MDOS
		517-373-2540	
		WilliamsS1@michigan.gov	
	Contract Administrator	Sue Ciecwa	DTMB
		517-284-7007	
		ciecwas@michigan.gov	

CONTRACT SUMMARY			
DESCRIPTION: Voting System Hardware, Firmware, Software and Service – Department of State			
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW
March 1, 2017	February 28, 2027	None	February 28, 2027
PAYMENT TERMS		DELIVERY TIMEFRAME	
Net 45 Days		Refer to Section 2.1 Time Frames	
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING
☐ P-card ☐ Direct Voucher (DV) ☐ Other			☒ Yes ☐ No
MINIMUM DELIVERY REQUIREMENTS			
There is no minimum order requirement.			
MISCELLANEOUS INFORMATION			
ESTIMATED CONTRACT VALUE AT TIME OF EXECUTION			\$0.00

FOR THE CONTRACTOR:

Company Name

Authorized Agent Signature

Authorized Agent (Print or Type)

Date

FOR THE STATE:

Signature

Sharon Walenga-Maynard, Sourcing Director

DTMB Procurement

Date



STATE OF MICHIGAN

VOTING SYSTEM HARDWARE, SOFTWARE AND SERVICES CONTRACT TERMS

This VOTING SYSTEM, HARDWARE, SOFTWARE AND SERVICES CONTRACT ("**Contract**") is agreed to between the State of Michigan (the "**State**") and Election Systems & Software, LLC ("**Contractor**"), a limited liability company. This Contract is effective on March 1, 2017 ("**Effective Date**"), and unless terminated, expires on February 28, 2027 (the "**Term**").

The parties agree as follows:

1. Definitions. For the purposes of this Contract, the following terms have the following meanings:

"**Acceptance**" has the meaning set forth in **Section 8.e**.

"**Audit Period**" has the meaning set forth in **Section 30**.

"**Authorized Users**" means all Michigan counties, cities, or townships.

"**Business Day**" means a day other than a Saturday, Sunday or other day on which the State is authorized or required by Law to be closed for business.

"**Change**" has the meaning set forth in **Section 4**.

"**Change Notice**" has the meaning set forth in **Section 4.b**.

"**Change Proposal**" has the meaning set forth in **Section 4.a**.

"**Change Request**" has the meaning set forth in **Section 4**.

"**Confidential Information**" has the meaning set forth in **Section 28.a**.

"**Configuration**" means State-specific changes made to the Software without Source Code or structural data model changes occurring.

"**Contract**" has the meaning set forth in the preamble.

"**Contract Administrator**" is the individual appointed by each party to (a) administer the terms of this Contract, and (b) approve any Change Notices under this Contract. Each party's Contract Administrator will be identified in the Statement of Work.

"**Contractor**" has the meaning set forth in the preamble.

"**Contractor Personnel**" means all employees of Contractor and any Permitted Subcontractors involved in the performance of Services hereunder.

"**Deliverables**" means the voting system tabulators and all related components, and the accessible voting system components, and all other materials that Contractor is required to or otherwise does provide to the State or Authorized Users under this Contract and otherwise in connection with any Services, including all items specifically identified as Deliverables in the Statement of Work. Notwithstanding the foregoing, the term Deliverable shall not include the EMS Software or System Software.

"**Dispute Resolution Procedure**" has the meaning set forth in **Section 39**.



"Documentation" means all user manuals, operating manuals, technical manuals and any other instructions, specifications, documents or materials, in any form or media, that describe the functionality, installation, testing, operation, use, maintenance, support, technical or other components, features or requirements of any Deliverable.

"Effective Date" has the meaning set forth in the preamble.

"EMS Software" means the Election Management System (EMS) software provided by Contractor under the Statement of Work, and any Maintenance Releases or New Versions provided to the State and any Configurations or Modifications made by or for the State pursuant to this Contract, and all copies of the foregoing permitted under this Contract and the License Agreement.

"Extended Service Period" has the meaning set forth in Section 1.6 of the Statement of Work.

"Fees" means the prices for Services, EMS Software and Deliverables set forth in an attachment to the Statement of Work.

"Harmful Code" means any: (a) virus, trojan horse, worm, backdoor or other software or hardware devices the effect of which is to permit unauthorized access to, or to disable, erase, or otherwise harm, any computer, systems or software; or (b) time bomb, drop dead device, or other software or hardware device designed to disable a computer program automatically with the passage of time or under the positive control of any Person, or otherwise prevent, restrict or impede the State's or any Authorized User's use of such software.

"Initial Service Period" has the meaning set forth in Section 1.6 of the Statement of Work.

"Intellectual Property Rights" means any and all intellectual property rights in any part of the world, whether registered or unregistered, and all applications for and renewals or extensions of such rights, including rights comprising or relating to: (a) patents, patent disclosures and inventions (whether patentable or not); (b) trademarks, service marks, trade dress, trade names, logos, corporate names and domain names, together with all of the goodwill associated therewith; (c) works of authorship, designs, copyrights and copyrightable works (including computer programs), mask works and rights in data and databases; (d) trade secrets, know-how and other confidential information; and (e) all similar or equivalent rights or forms of protection.

"Key Personnel" means any Contractor Personnel identified as key personnel in the Statement of Work.

"License Agreement" has the meaning set forth in **Section 5**.

"Maintenance Release" means any update, upgrade, release or other adaptation or modification of the Software, including any updated Documentation, that Contractor may generally provide to its licensees from time to time during the Term, which may contain, among other things, error corrections, enhancements, improvements or other changes to the user interface, functionality, compatibility, capabilities, performance, efficiency or quality of the Software.

"Modification" means State-specific changes made to the Source Code of the Software to enhance, improve or otherwise create derivative works of the Software.

"New Version" means any new version of the Software that the Contractor may from time to time introduce and market generally as a distinct licensed product, as may be indicated by Contractor's designation of a new version number.

"Operating Environment" means, collectively, the platform, environment and conditions on, in or under which the EMS Software is intended to be installed and operate, as set forth in the Statement of Work, including such structural, functional and other features, conditions and components as hardware, operating software and system architecture and configuration.

"Permitted Subcontractor" has the meaning set forth in **Section 10.e**.

"Person" means an individual, corporation, partnership, joint venture, limited liability company, governmental authority, unincorporated organization, trust, association or other entity.



"Program Manager" is the individual appointed by each party to (a) monitor and coordinate the day-to-day activities of this Contract, and (b) for the State, to co-sign off on its notice of Acceptance for Services, the EMS Software and Deliverables. Each party's Program Manager will be identified in the Statement of Work.

"Purchase Order" means an order for EMS Software, Services or Deliverables to be provided by Contractor and the corresponding fees to be paid by the State or Authorized User, issued by the State or Authorized User, and subject to these terms and conditions.

"Representatives" means a party's employees, officers, directors, partners, shareholders, agents, attorneys, third-party advisors, successors and permitted assigns.

"Services" means any of the services Contractor is required to or otherwise does provide under this Contract or the Statement of Work (including any exhibits or attachments), as more fully described in the body of this Contract and the Statement of Work.

"Software" means both the EMS Software and the System Software.

"Source Code" means the human readable source code of the Software to which it relates, in the programming language in which the Software was written, together with all related flow charts and technical documentation, including a description of the procedure for generating object code, all of a level sufficient to enable a programmer reasonably fluent in such programming language to understand, build, operate, support, maintain and develop modifications, upgrades, updates, adaptations, enhancements, new versions and other derivative works and improvements of, and to develop computer programs compatible with, the EMS Software.

"Specifications" means, for the Software, the specifications collectively set forth in the Business Requirements Specification and Technical Specification, together with any other specifications set forth in the Statement of Work or Documentation.

"State" means the State of Michigan.

"State Data" has the meaning set forth in **Section 27**.

"Statement of Work" means the statement of work attached as **Schedule A** to this Contract, including all attachments and exhibits thereto.

"State Resources" means all materials and information, including documents, data, know-how, ideas, methodologies, specifications, software, content and technology, in any form or media, directly or indirectly provided or made available to Contractor by or on behalf of the State or Authorized Users in connection with this Contract.

"System Software" means the operating system code, including software, firmware and microcode, (object code version) for each Deliverable, including any subsequent revisions, as well as any applicable Documentation.

"Term" has the meaning set forth in the preamble.

"Third Party" means any Person other than the State, an Authorized User, or Contractor.

"Third-Party Products" software or hardware that are not Contractor's proprietary software or hardware, provided by Contractor's distributors or other Third Parties to State.

"Transition Period" has the meaning set forth in **Section 22**.

"Transition Responsibilities" has the meaning set forth in **Section 22**.

"Unauthorized Removal" has the meaning set forth in **Section 10.d.ii**.

"Unauthorized Removal Credit" has the meaning set forth in **Section 10.d.iii**.

2. **Statement of Work.** Contractor shall provide the Deliverables, EMS Software and Services, pursuant to the executed License Agreement (defined below) and to the executed Statement of Work, which is attached as **Schedule A** to this Contract. The terms and conditions of this Contract will apply at all times to the Statement of Work.



3. **Statement of Work Requirements.** The Statement of Work will include the following:

- a. A detailed description of the Services to be provided by Contractor, including any service and maintenance obligations and training obligations of Contractor;
- b. A detailed description of the EMS Software to be provided by Contractor;
- c. A detailed description of the Deliverables to be provided by Contractor;
- d. Names and contact information for Contractor's Contract Administrator, Program Manager and Customer Service Manager, and any other Key Personnel of Contractor;
- e. Names and contact information for the State's Contract Administrator and Program Manager;
- f. An exhibit detailing the Fees payable under the Statement of Work, the manner in which such Fees will be calculated, any invoicing requirements, including any time frames on which any such Fees are conditioned, and such other information as the parties deem necessary; and
- g. A detailed description of all State Resources required to complete the Services and Deliverables set forth in the Statement of Work.

4. **Change Control Process.** The State may at any time request in writing (each, a "**Change Request**") changes to the Statement of Work, including changes to the Services, EMS Software (subject to Section 1.5D Statement of Work) and Deliverables (each, a "**Change**"). Upon the State's submission of a Change Request, the parties will evaluate and implement all Changes in accordance with this **Section 4**.

- a. As soon as reasonably practicable, and in any case within twenty (20) Business Days following receipt of a Change Request, Contractor will provide the State with a written proposal for implementing the requested Change ("**Change Proposal**"), setting forth:
 - i. a written description of the proposed Changes to any Services, EMS Software or Deliverables;
 - ii. a schedule for commencing and completing any additional or modified Services, EMS Software or Deliverables, and the effect of such Changes, if any, on completing any other Services under the Statement of Work;
 - iii. any additional State Resources Contractor deems necessary to carry out such Changes; and
 - iv. any increase or decrease in Fees resulting from the proposed Changes, which increase or decrease will reflect only the increase or decrease in time and expenses Contractor requires to carry out the Change.
- b. Within thirty (30) Business Days following the State's receipt of a Change Proposal, the State will by written notice to Contractor, approve, reject, or propose modifications to such Change Proposal. If the State proposes modifications, Contractor must modify and re-deliver the Change Proposal reflecting such modifications, or notify the State of any disagreement, in which event the parties will negotiate in good faith to resolve their disagreement. Upon the State's approval of the Change Proposal or the parties' agreement on all proposed modifications, as the case may be, the parties will execute a written agreement to the Change Proposal ("**Change Notice**"), which Change Notice will be signed by the State's Chief Procurement Officer (or his or her designee), and will constitute an amendment to the Statement of Work.
- c. If the parties fail to enter into a Change Notice within fifteen (15) Business Days following the State's response to a Change Proposal, the State may, in its discretion:
 - i. require Contractor to perform the Services under the Statement of Work without the Change;
 - ii. require Contractor to continue to negotiate a Change Notice;
 - iii. initiate a Dispute Resolution Procedure; or
 - iv. if the Change Request is initiated due to changes in the applicable federal or state certification standards or laws, then, notwithstanding any provision to the contrary in the Statement of Work,



terminate this Contract for cause under **Section 20**, or otherwise, terminate this Contract for convenience under **Section 21**.

- d. No Change will be effective until the parties have executed a Change Notice. Except as the State may request in its Change Request or otherwise in writing, Contractor must continue to perform its obligations in accordance with the Statement of Work pending negotiation and execution of a Change Notice. Contractor will use its best efforts to limit any delays or Fee increases from any Change to those necessary to perform the Change in accordance with the applicable Change Notice. Each party is responsible for its own costs and expenses of preparing, evaluating, negotiating, and otherwise processing any Change Request, Change Proposal, and Change Notice.
 - e. The performance of any functions, activities, tasks, obligations, roles and responsibilities comprising the Services or Deliverables as described in this Contract are considered part of the Services and Deliverables and, thus, will not be considered a Change. This includes the delivery of all Deliverables in accordance with their respective specifications, and the diagnosis and correction of non-conformities discovered in Deliverables prior to their Acceptance by the State or, subsequent to their Acceptance by the State, as necessary for Contractor to fulfill its associated service and maintenance obligations under this Contract.
 - f. Contractor may, on its own initiative and at its own expense, prepare and submit its own Change Request to the State. However, the State will be under no obligation to approve or otherwise respond to a Change Request initiated by Contractor.
5. **EMS Software and System Software Licenses.** Contractor hereby grants to the State and Authorized Users the right and license to use the EMS Software, System Software and related Documentation in accordance with the terms and conditions of this Contract and the License Agreement set forth in **Schedule B** (the "**License Agreement**").
6. **Scope of Use for Deliverables.** The State and Authorized Users may use the Deliverables, and any software licensed in connection with such Deliverable, on a worldwide basis for the benefit of themselves. Contractor further authorizes use of the Deliverables by third parties who are under contract with the State or the Authorized User to provide outsourcing services for the benefit of the State or the Authorized User. There are no restrictions on subsequent resale or distribution of Deliverables that the State or Authorized User had paid for in full.
7. **Support and Maintenance.** Contractor shall provide support and maintenance for the EMS Software and all Deliverables in accordance with the applicable service level agreement set forth in the Statement of Work, Section 1.6, and the licensing restrictions set forth in the License Agreement and the terms and conditions of this Contract.
8. **Purchase, Delivery, Installation and Acceptance.**
- a. Purchase Orders. The State or Authorized User will order the EMS Software, Services or Deliverables pursuant to a signed Purchase Order issued by the State or an Authorized User. The State or Authorized User reserves the right to cancel any Purchase Order at any time prior to shipment of the Deliverables or delivery of the Services and shall not be subject to any charges or other fees whatsoever as a result of such cancellation. The State or Authorized User may by written communication cancel or make changes to any Purchase Order subject to an equitable adjustment in the price, delivery schedule, or both, where appropriate. THE TERMS AND CONDITIONS OF THIS CONTRACT WILL APPLY AT ALL TIMES TO ANY PURCHASE ORDERS ISSUED BY THE STATE OR ANY AUTHORIZED USER UNDER THIS CONTRACT. ALL CONTRACTUAL OBLIGATIONS UNDER THIS CONTRACT IN CONNECTION WITH A PURCHASE ORDER PLACED BY AN AUTHORIZED USER ARE THE SOLE OBLIGATION OF THE AUTHORIZED USER PLACING THE ORDER AND NOT THE RESPONSIBILITY OF THE STATE.
 - b. Delivery Procedure for Deliverables. Contractor shall deliver all Deliverables within the timeframe set forth in the applicable Purchase Order, FOB destination, with such destination being the "ship to" address as specified in the applicable Purchase Order. Contractor shall bear all risk of loss of or damage to the Deliverable until receipt of delivery at the "ship to" address, and shall arrange and pay for all transportation and insurance sufficient to fully protect the Deliverable while in transit. Each shipment shall include a packing slip indicating the Authorized User's order number, a description of the Deliverable shipped and the quantity shipped. If any loss to, or damage of, the Deliverable occurs prior to receipt of delivery at the "ship to" address by the Authorized User, Contractor shall immediately provide a replacement Deliverable. Title shall pass upon receipt of delivery. Contractor shall make available all appropriate or related user Documentation at the time of delivery of the first



unit of each different Deliverable type. Deliverables delivered without the appropriate and required Documentation shall be considered "shipped short" until the applicable Documentation has been received.

c. EMS Software Installation.

- i. Unless otherwise set forth in the Statement of Work or the applicable Purchase Order, Contractor will deliver, install, and configure the EMS Software in accordance with the criteria set forth in the Statement of Work.
- ii. Unless otherwise set forth in the Statement of Work or applicable Purchase Order, Contractor is responsible for ensuring the relevant Operating Environment is set up and in working order to allow Contractor to deliver and install the EMS Software. Contractor will provide the Authorized User with such notice as is specified in the Statement of Work, prior to delivery of the EMS Software to give the Authorized User sufficient time to prepare for Contractor's delivery, and if applicable, installation of the EMS Software. If the Authorized User is responsible for site preparation or installation, Contractor will provide such assistance as Authorized User requests to complete such preparation and installation on a timely basis.
- iii. During the Term, Contractor shall provide the State with all Maintenance Releases and New Versions in accordance with the Statement of Work (Section 1.5D, Modification Requirements), each of which will constitute EMS Software and be subject to the terms and conditions of this Contract and the License Agreement.
- iv. The State has no obligation to install or use any Maintenance Release or New Version. If the State wishes to install any Maintenance Release or New Version, the State shall have the right to have such Maintenance Release or New Version installed, in the State's discretion, by Contractor or other authorized party as set forth in the Statement of Work.

d. Deliverable Installation. Unless otherwise specified in the Statement of Work or applicable Purchase Order, Contractor shall provide the initial installation of all Deliverables at no additional charge. Installation shall include: unpacking, removal of all shipping and packing materials from the premises, positioning, connecting to internal utility services, and related necessary services to allow for Testing and Acceptance by the Authorized User. All Deliverable installations shall comply with building and facilities standards established by the State or Authorized User. If the Authorized User installs the Deliverable, Contractor shall provide all reasonably necessary telephone assistance at no additional cost during installation.

e. Acceptance. Acceptance procedures for Services, EMS Software and Deliverables is set forth in the Statement of Work. Upon completion of testing set forth in the Statement of Work, the State or Authorized User will notify Contractor of its acceptance ("**Acceptance**"), provided such Acceptance occurs and is completed within fifteen (15) calendar days of delivery to the ship to address, after which it will be deemed accepted by the Authorized User or the State, as applicable.

9. **Invoicing and Payment.**

a. Invoicing. Contractor will invoice the State or Authorized user for Fees in accordance with the requirements set forth in the Statement of Work. Contractor must submit each invoice in electronic format, via such delivery means and to such address as are specified by the State or Authorized User. Each separate invoice must:

- i. clearly identify this Contract;
- ii. list each Fee item separately;
- iii. include sufficient detail for each line item to enable the State or Authorized User to satisfy its accounting and charge-back requirements;
- iv. for Fees determined on a time and materials basis, report details regarding the number of hours performed during the billing period, the skill or labor category for such Contractor Personnel and the applicable hourly billing rates;



- v. include such other information as may be required by the State or Authorized User; and
 - vi. any other requirements set forth in the Statement of Work.
- b. Payment. Invoices are due and payable by the State, within forty-five (45) calendar days after Acceptance, provided the State determines that the invoice was properly rendered. 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/cpexpress> to receive electronic fund transfer payments. If Contractor does not register, the State is not liable for failure to provide payment. Invoices are due and payable by Authorized Users in accordance with the Authorized User's standard payment procedures.
- c. Payment Disputes. The State or Authorized User may withhold from payment any and all payments and amounts it disputes in good faith, pending resolution of such dispute, provided that the State or Authorized User:
- i. timely renders all payments and amounts that are not in dispute;
 - ii. notifies Contractor of the dispute prior to the due date for payment, specifying in such notice (A) the amount in dispute; and, (B) the reason for the dispute set out in sufficient detail to facilitate investigation by Contractor and resolution by the parties;
 - iii. works with Contractor in good faith to resolve the dispute promptly; and
 - iv. promptly pays any amount determined to be payable by resolution of the dispute.
- d. Not to Withhold Services. Contractor shall not withhold any Services or Deliverables or fail to perform any obligation hereunder by reason of the State's or Authorized User's good faith withholding of any payment or amount or any dispute arising therefrom.
- e. Firm Pricing. Unless otherwise set forth in the Statement of Work, all Fees set forth in this Contract are firm and will not be increased during the Term, or any renewal thereof. For purpose of clarity, the parties may negotiate pricing for replacement hardware or components that reach end of life.
- f. Taxes. The State is exempt from State sales tax for direct purchases and may be exempt from federal excise tax, if Services or Deliverables purchased under this Contract are for the State's exclusive use or Authorized users. Notwithstanding the foregoing, all Fees are inclusive 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.
- g. Right of Setoff. Without prejudice to any other right or remedy it may have, the State and Authorized Users reserve the right to set off at any time any amount owing to it by Contractor against any amount payable by the State or Authorized User to Contractor under this Contract.
- 10. Performance of Services.** Contractor will provide all Services and Deliverables in a timely, professional and workmanlike manner and in accordance with the terms, conditions, and specifications set forth in this Contract and the Statement of Work.
- a. State Standards**
- i. To the extent that Contractor has access to the State's computer system or will be handling State Data, Contractor must adhere to all existing standards as described within the comprehensive listing of the State's existing technology standards at <http://www.michigan.gov/dmb/0,4568,7-150-56355-108233--,00.html>
 - ii. To the extent that Contractor has access to the State's computer system, Contractor must comply with the State's Acceptable Use Policy, see http://michigan.gov/cybersecurity/0,1607,7-217-34395_34476--,00.html. All Contractor personnel will be required, in writing, to agree to the



State's Acceptable Use Policy before accessing the State's system. The State reserves the right to terminate Contractor's access to the State's system if a violation occurs.

b. Contractor Personnel

- i. Contractor is solely responsible for all Contractor personnel and for the payment of their compensation, including, if applicable, withholding of income taxes, and the payment and withholding of social security and other payroll taxes, unemployment insurance, workers' compensation insurance payments and disability benefits.
- ii. Prior to any Contractor personnel performing any Services, Contractor will:
 1. ensure that such Contractor personnel have the legal right to work in the United States; and
 2. require such Contractor personnel to execute written agreements, in form and substance acceptable to the State or Authorized User, that bind such Contractor personnel to confidentiality provisions that are at least as protective of the State's information (including all Confidential Information) as those contained in this Contract.
- iii. Contractor and all Contractor Personnel will comply with all rules, regulations, and policies of the State or Authorized User that are communicated to Contractor in writing, including security procedures concerning systems and data and remote access, building security procedures, including the restriction of access by the State or Authorized User to certain areas of its premises or systems, and general health and safety practices and procedures.
- iv. The State or Authorized User reserves the right to require the removal of any Contractor Personnel found, in the judgment of the State or Authorized User, to be unacceptable. The request must be written with reasonable detail outlining the reasons for the removal request. Replacement personnel for the removed person must be fully qualified for the position. If the State or Authorized User exercises this right, and Contractor cannot immediately replace the removed personnel, the parties agree to negotiate an equitable adjustment in schedule or other terms that may be affected by the required removal.

- c. **Background Checks.** Upon request, 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 or Authorized User and documentation must be provided as requested. Contractor is responsible for all costs associated with the requested background checks. The State or Authorized User, in its sole discretion, may also perform background checks.

d. Contractor's Key Personnel

- i. The State has the right to recommend and approve in writing the initial assignment, as well as any proposed reassignment or replacement, of any Key Personnel. Before assigning an individual to any Key Personnel position, Contractor will notify the State of the proposed assignment, introduce the individual to the State's Program Manager, and provide the State with a resume and any other information about the individual reasonably requested by the State. The State reserves the right to interview the individual before granting written approval. In the event the State finds a proposed individual unacceptable, the State will provide a written explanation including reasonable detail outlining the reasons for the rejection.
- ii. Contractor will not remove any Key Personnel from their assigned roles on this Contract without the prior written consent of the State, not to be unreasonably withheld. The Contractor's removal of Key Personnel without the prior written consent of the State is an unauthorized removal ("**Unauthorized Removal**"). An Unauthorized Removal does not include replacing Key Personnel for reasons beyond the reasonable control of Contractor, including illness, disability, leave of absence, personal emergency circumstances, resignation, or for cause termination of the Key Personnel's employment. Any Unauthorized Removal may be considered by the State to be



a material breach of this Contract, in respect of which the State may elect to terminate this Contract for cause under **Section 20**.

iii. It is further acknowledged that an Unauthorized Removal will interfere with the timely and proper completion of this Contract, to the loss and damage of the State, and that it would be impracticable and extremely difficult to fix the actual damage sustained by the State as a result of any Unauthorized Removal. Therefore, Contractor and the State agree that in the case of any Unauthorized Removal in respect of which the State does not elect to exercise its rights under **Section 20**, Contractor will issue to the State the corresponding credits set forth below (each, an **"Unauthorized Removal Credit"**):

1. For the Unauthorized Removal of any Key Personnel designated in the Statement of Work, the credit amount will be \$1,000.00 per individual if Contractor identifies a replacement approved by the State and assigns the replacement to shadow the Key Personnel who is leaving for a period of at least 30 calendar days before the Key Personnel's removal.
2. If Contractor fails to assign a replacement to shadow the removed Key Personnel for at least 30 Calendar Days, in addition to the \$1,000.00 credit specified above, Contractor will credit the State \$1,000.00 per Business Day for each day of the 30 calendar Day shadow period that the replacement Key Personnel does not shadow the removed Key Personnel, up to \$30,000.00 maximum per individual. The total Unauthorized Removal Credits that may be assessed per Unauthorized Removal and failure to provide 30 Calendar Days of shadowing will not exceed \$31,000.00 per individual.

iv. Contractor acknowledges and agrees that each of the Unauthorized Removal Credits assessed under **Subsection iii** above: (i) is a reasonable estimate of and compensation for the anticipated or actual harm to the State that may arise from the Unauthorized Removal, which would be impossible or very difficult to accurately estimate; and (ii) may, at the State's option, be credited or set off against any Fees or other charges payable to Contractor under this Contract.

e. **Subcontractors.** Contractor will not, without the prior written approval of the State, which consent may be given or withheld in the State's sole discretion, engage any Third Party to perform Services. The State's approval of any such Third Party (each approved Third Party, a **"Permitted Subcontractor"**) does not relieve Contractor of its representations, warranties or obligations under this Contract. Without limiting the foregoing, Contractor will:

- i. be responsible and liable for the acts and omissions of each such Permitted Subcontractor (including such Permitted Subcontractor's employees who, to the extent providing Services or Deliverables, shall be deemed Contractor Personnel) to the same extent as if such acts or omissions were by Contractor or its employees;
- ii. name the State a third party beneficiary under Contractor's Contract with each Permitted Subcontractor with respect to the Services;
- iii. be responsible for all fees and expenses payable to, by or on behalf of each Permitted Subcontractor in connection with this Contract, including, if applicable, withholding of income taxes, and the payment and withholding of social security and other payroll taxes, unemployment insurance, workers' compensation insurance payments and disability benefits

11. **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:
Sue Ciecwa DTMB Procurement	Wil Wesley Election Systems and Software, LLC



Constitution Hall
525 West Allegan Street
PO Box 30026
Lansing, MI 48909
Email: cieciwas@michigan.gov
Phone: (517) 284-7007

11208 John Galt Blvd
Omaha, NE 68137
Email: wil.wesley@essvote.com
Phone: 954-816-0042

- 12. Insurance Requirements.** Contractor must maintain the insurances identified below and is responsible for all deductibles. All required insurance must: (a) protect the State from claims that may arise out of, are alleged to arise out of, or result from Contractor's or a subcontractor's performance; (b) be primary and non-contributing to any comparable liability insurance (including self-insurance) carried by the State; and (c) be provided by a company with an A.M. Best rating of "A" or better and a financial size of VII or better.

Insurance Type	Additional Requirements
Commercial General Liability Insurance	
<u>Minimal Limits:</u> \$1,000,000 Each Occurrence Limit \$1,000,000 Personal & Advertising Injury Limit \$2,000,000 General Aggregate Limit \$2,000,000 Products/Completed Operations <u>Deductible Maximum:</u> \$50,000 Each Occurrence	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 2010 07 04 and CG 2037 07 0.
Automobile Liability Insurance	
<u>Minimal Limits:</u> \$1,000,000 Per Occurrence	
Workers' Compensation Insurance	
<u>Minimal Limits:</u> Coverage according to applicable laws governing work activities.	Waiver of subrogation, except where waiver is prohibited by law.
Employers Liability Insurance	
<u>Minimal Limits:</u> \$500,000 Each Accident \$500,000 Each Employee by Disease \$500,000 Aggregate Disease.	
Crime Insurance	
<u>Minimal Limits:</u> \$1,000,000 Employee Theft Per Loss	Contractor must have their policy: (1) cover forgery and alteration, theft of money and securities, robbery and safe burglary, computer fraud, funds transfer fraud, money order and counterfeit currency, and (2) endorsed to add "the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees, and agents" as Loss Payees.
Professional Liability (Errors and Omissions) Insurance	
<u>Minimal Limits:</u> \$5,000,000 Each Occurrence \$5,000,000 Annual Aggregate <u>Deductible Maximum:</u>	



\$50,000 Per Loss	
Property Insurance	
The Contractor is responsible for Property Insurance covering any loss or damage to State-owned owned property that results from this agreement including cargo while in transit, and State-owned office space used by the Contractor for any reason under this Contract, together with State-owned equipment, software and other contents of the office space, including without limitation, those contents used by the Contractor to provide the Services to the State, up to its replacement value, where the property is under the care, custody and control of the Contractor.	The State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees and agents must be endorsed on the policy as a loss payee as its interests appear.

If any of the required policies provide claim-made coverage, the Contractor must: (a) provide coverage with a retroactive date before the effective date of the contract or the beginning of Services; (b) maintain coverage and provide evidence of coverage for at least three (3) years after completion of the Services; and (c) if coverage is canceled or not renewed, and not replaced with another claims-made policy form with a retroactive date prior to the contract effective date, Contractor must purchase extended reporting coverage for a minimum of three (3) years after completion of work.

Contractor must: (a) provide insurance certificates to the Contract Administrator, containing the agreement or purchase order number, at Contract formation and within 20 calendar days of the expiration date of the applicable policies; (b) require that subcontractors maintain the required insurances contained in this Section; (c) notify the Contract Administrator within 5 business days if any insurance is cancelled; and (d) waive all rights against the State for damages covered by insurance. Failure to maintain the required insurance does not limit this waiver.

This Section is not intended to and is not 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).

13. Reserved

14. 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. Upon written agreement between the State and Contractor, this Contract may also be extended to: (a) State of Michigan employees and (b) other states (including governmental subdivisions and authorized entities).

If extended, Contractor must supply all Services, EMS Software and Deliverables at the established Contract prices and terms. The State reserves the right to 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. ALL CONTRACTUAL OBLIGATIONS UNDER THIS CONTRACT IN CONNECTION WITH A PURCHASE ORDER PLACED BY A MIDEAL MEMBER ARE THE SOLE OBLIGATION OF THE MIDEAL MEMBER PLACING THE ORDER AND NOT THE RESPONSIBILITY OF THE STATE

15. Independent Contractor. Contractor is an independent contractor and assumes all rights, obligations and liabilities set forth in this Contract. 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.

16. Assignment. Contractor may not assign this Contract to any other party without the prior written 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.

17. Change of Control. Contractor will notify the State, within 90 calendar days of the effective date, 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 resulting in a circumstance described by (e); (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 more than 50% 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.

18. **Liquidated Damages.** Liquidated damages, if applicable, will be assessed as described in the Statement of Work.
19. **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. The State will not pay for Services or Deliverables, Contractor's lost profits, or any additional compensation during a stop work period. The State or Authorized User, as applicable will pay for any Services or Deliverables that have been ordered, prior to the issuance of the Stop Work Order.
20. **Termination for Cause.** The State may terminate this Contract for cause, in whole or in part, if Contractor, as determined by the State: (a) endangers the value, integrity, or security of any State or Authorized User location, data, or personnel; (b) becomes insolvent, petitions for bankruptcy court proceedings, or has an involuntary bankruptcy proceeding filed against it by any creditor; (c) engages in any conduct that may expose the State or an Authorized User to liability; (d) breaches any of its material duties or obligations under this Contractor, including but not limited to obtaining and maintaining, throughout the Term of the Contract, Federal and/or State voting system certification; or (e) fails to cure a breach within the time stated in a notice of breach provided Contractor shall be afforded no less than thirty (30) days to cure any such breach under this Contract unless otherwise mutually agreed upon by the parties. Any reference to specific breaches being material breaches within this Contract will not be construed to mean that other breaches are not material.

If the State terminates this Contract under this Section, the State will issue a termination notice specifying whether Contractor must: (a) cease performance immediately, or (b) 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 21**.

The State will only pay for amounts due to Contractor for Services and Deliverables 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 for support and maintenance services. Further, Contractor must pay all reasonable costs incurred by the State in terminating this Contract for cause, including administrative costs, attorneys' fees, and court costs. For purposes of clarity, Contractor will not be responsible for any transition costs or costs of obtaining substitute Services or Deliverables.

21. **Termination for Convenience.** Upon thirty (30) days prior written notice, the State may terminate this Contract in whole or in part without penalty and for any reason, including but not limited to, appropriation or budget shortfalls. The termination notice will specify whether Contractor must: (a) cease performance of the Services immediately, or (b) continue to perform the Services in accordance with **Section 22**. 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. The State or Authorized User, as applicable will pay for any Services or Deliverables that have been Accepted, prior to the effective date of the termination.
22. **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)(the "**Transition Period**"), provide all reasonable transition assistance requested by the State, to allow for the expired or terminated portion of the Services and Deliverables to continue without interruption or adverse effect, and to facilitate the orderly transfer of such Services and Deliverables to the State or its designees. Such transition assistance may include, but is not limited to: (a) continuing to perform the Services at the established Contract rates; (b) taking all reasonable and necessary measures to transition performance of the work, including all applicable Services and Deliverables, training, reports and other documentation,



to the State or the State's designee; (c) taking 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 Contractor by any entity, agent, vendor, or employee of the State; (d) 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 (e) 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.

23. **General 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 third party claims arising out of: (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, excluding any Third-Party Products; and (c) any bodily injury, death, or damage to real or tangible personal property occurring wholly or in part due to the negligence or misconduct 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; and (iii) employ its own counsel. Contractor will not, without the State's 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. To the extent that any State employee, official, or law may be involved or challenged, the State may, at its own expense, control the defense of that portion of the claim; provided that, in such event, Contractor will be relieved of its obligations under this Section with respect to that particular claim.

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.

24. **Infringement Remedies; Exclusions.** Excluding any Third-Party Products, if, in either party's opinion, any of the Services, EMS Software or Deliverables 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 do one of the following at State's option: (a) procure for the State the right to continue using the Services or Deliverables, or if this option is not reasonably available to Contractor, (b) replace or modify the same so that it becomes non-infringing, or if this option is not reasonably available to Contractor, (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. Contractor will not defend or indemnify the State if any claim of infringement or misappropriation (a) is asserted by an affiliate of the State; (b) results from the State's design or alteration of any Services, EMS Software or Deliverables; (c) results from use of any Deliverable or EMS Software in combination with any non-Contractor product, except to the extent, if any, that such use in combination is restricted to the EMS Software system designed by Contractor or Contractor has directed such use; (d) relates to Third-Party Products; or (e) arises from State-specified customization work undertaken by Contractor or its designees that are made in response to State specifications. THIS SECTION 24 AND THE STATE'S INDEMNIFICATION RIGHTS UNDER SECTION 23 STATES THE ENTIRE LIABILITY OF CONTRACTOR AND STATE'S SOLE AND EXCLUSIVE REMEDIES FOR INFRINGEMENT AND INTELLECTUAL PROPERTY MISAPPROPRIATION; PROVIDED THAT, THE STATE MAY ALSO TERMINATE THIS CONTRACT FOR CAUSE.

25. **Limitation of Liability.** NEITHER PARTY WILL BE LIABLE, 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 FOR CONSEQUENTIAL, INCIDENTAL, INDIRECT, OR SPECIAL DAMAGES, INCLUDING WITHOUT LIMITATION LOST PROFITS AND LOST BUSINESS OPPORTUNITIES. IN ADDITION, IN NO EVENT WILL THE STATE'S OR THE CONTRACTOR'S AGGREGATE LIABILITY TO THE OTHER OR TO ANY AUTHORIZED USER UNDER THIS CONTRACT EXCEED THE MAXIMUM AMOUNT OF FEES SPECIFIED IN THE STATEMENT OF WORK WITH RESPECT TO THE STATE OR THE



MAXIMUM AMOUNT OF FEES SPECIFIED IN THE APPLICABLE PURCHASE ORDER FOR SUCH AUTHORIZED USER.

26. **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 and that could reasonably be expected to affect Contractor's ability to comply with this Agreement, 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 (e) a Proceeding involving any license that Contractor is required to possess in order to perform under this Contract.
27. **State Data.** The State's data ("**State Data**"), which will be treated by Contractor as Confidential Information, includes all of the State's or Authorized User's data collected, used, processed, stored, or generated as the result of the Services. Contractor is provided a limited license to State Data for the sole and exclusive purpose of providing the Services, including a license to collect, process, store, generate, and display State Data only to the extent necessary in the provision of the Services. Contractor must: (a) keep and maintain State Data in strict confidence, using such degree of care as is appropriate and consistent with its obligations as further described in this Contract and applicable law to avoid unauthorized access, use, disclosure, or loss; (b) use and disclose State Data solely and exclusively for the purpose of providing the Services, such use and disclosure being in accordance with this Contract, any applicable Statement of Work, and applicable law; and (c) not use, sell, rent, transfer, distribute, or otherwise disclose or make available State Data for Contractor's own purposes or for the benefit of anyone other than the State without the State's prior written consent. This Section survives the termination of this Contract.
28. **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. The provisions of this Section survive the termination of this Contract.
- 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; and, (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) by the receiving party; (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) the receiving party obligates the subcontractor in a written contract to maintain the disclosing party's Confidential Information in confidence. At a party's request, any employee 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, the immediate termination without penalty to the terminating party, 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. 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.

29. Data Privacy and Information Security. Without limiting Contractor's obligation of confidentiality as further described, Contractor is responsible for establishing and maintaining a data privacy and information security program, including physical, technical, administrative, and organizational safeguards, that is designed to: (a) ensure the security and confidentiality of State Data; (b) protect against any anticipated threats or hazards to the security or integrity of State Data; (c) protect against unauthorized disclosure, access to, or use of State Data; (d) ensure the proper disposal of State Data; and (e) ensure that all employees, agents, and subcontractors of Contractor, if any, comply with all of the foregoing.

30. Records Maintenance, Inspection, Examination, and Audit. 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 financial and accounting 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 Services are being performed, and examine, copy, and audit all records related to this Contract. Contractor must cooperate and provide reasonable assistance. If any 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 Services in connection with this Contract.

31. Warranties and Representations.

- a. Authority. Contractor represents and warrants to the State that:
 - i. It is duly organized, validly existing, and in good standing as a corporation or other entity as represented under this Contract under the laws and regulations of its jurisdiction of incorporation, organization, or chartering;
 - ii. It has the full right, power, and authority to enter into this Contract, to grant the rights and licenses granted under this Contract, and to perform its contractual obligations;
 - iii. The execution of this Contract by its Representative has been duly authorized by all necessary organizational action; and
 - iv. When executed and delivered by Contractor, this Contract will constitute the legal, valid, and binding obligation of Contractor, enforceable against Contractor in accordance with its terms.
- b. Pass through Warranties. Contractor further represents and warrants to the State that:



- i. it shall pass through all manufacturer supplied end-user warranties to the Authorized User or the State, as applicable, and that with respect to all of the Deliverables provided hereunder, it has obtained from manufacturers of such Deliverables provided hereunder and will assign or pass through to each Authorized User the following representations and rights from said manufacturers: that said manufacturers agree to defend, indemnify and hold harmless Contractor and the end user customer at manufacturer's expense from and against any claim, charge, demand, proceeding, suit, liability, loss, cost, expense, order, decree, attorneys fees, court costs, trial or appeal and judgments including damages of any kind resulting from, arising out of or in connection with any actual or claimed: (a) personal injury (including death), property damage or loss of any nature whatsoever alleged to have occurred as a result of the use of any of the Deliverable, (b) any defect in material, workmanship or design and (c) patent, trademark or copyright infringement with respect to any of the Deliverables. Notwithstanding the foregoing, the State and Authorized Users acknowledge that all Third Party Products which have been purchased by the Contractor for the State or Authorized Users hereunder are owned by parties other than Contractor. The State and Authorized Users further acknowledge that except for the payment to Contractor for the Third Party Products, all of its rights, warranties and obligations with respect thereto flow from and to the Third Parties. Contractor is only obligated to pass through the foregoing rights, warranties and obligations as may be provided by the Third Party.
 - c. EMS Software and Deliverable Representations and Warranties. Contractor further represents and warrants to the State that:
 - i. except for any Third Party Products used in conjunction with the EMS Software or any Deliverable (including System Software) provided hereunder, it is the legal and beneficial owner of the entire right, title and interest in and to the EMS Software and Deliverables (including any System Software), including, all Intellectual Property Rights relating thereto necessary to perform hereunder;
 - ii. it has, and throughout the license term, will retain the unconditional and irrevocable right, power and authority to grant and perform the license hereunder;
 - iii. the EMS Software and Deliverables (including any System Software), and the State's use thereof, is and throughout the license term will be free and clear of all encumbrances, liens and security interests of any kind;
 - iv. when used by the State or any Authorized User in accordance with this Contract, the EMS Software or Deliverable (including any System Software) as delivered or installed by Contractor does not or will not infringe, misappropriate or otherwise violate any Intellectual Property Right or other right of any third party;
 - v. Contractor uses industry standard software and tools designed to ensure that the EMS Software or any System Software does not or will not at any time during the license term contain any Harmful Code;
 - vi. when delivered, the EMS Software and System Software shall be at the current State certified release level unless otherwise requested by the State or Authorized Users; and
 - vii. all Documentation is and will be complete and accurate in all material respects when provided to the State such that at no time during the license term will the EMS Software or any Deliverables (including any System Software) have any material undocumented feature.
 - d. Performance Warranty.
 - i. Contractor warrants that during the Term of the Contract: (A) the EMS Software and the Deliverables (including System Software, but, excluding any Third-Party Products) will function in conformity with this Contract, the specifications set forth in the Statement of Work, and the Documentation; and (B) all Deliverables (but excluding any Third-Party Products) will be free of



damage or defect in design, material and workmanship, and will remain so under ordinary use as contemplated by this Contract, the specifications set forth in the Statement of Work, and the Documentation. Contractor will, at the State's discretion, replace or repair any Contractor hardware that does not comply with this warranty, at no additional charge to State. The foregoing warranty shall not include the repair or replacement of any Deliverable components that are consumed in the normal course of operating the Deliverables, including printer ribbons, printer cartridges, paper rolls, backup batteries, removable media storage devices or marking devices. These warranties are effective provided that (I) the State or Authorized User promptly notifies Contractor of the failure of performance or defect and is otherwise in compliance with its obligations hereunder, (II) the Deliverable, EMS Software or System Software to be repaired or replaced has not been repaired, changed, modified or altered except as authorized or approved by Contractor, (III) the Deliverable, EMS Software or System Software to be repaired or replaced is not damaged as a result of accident, theft, vandalism, neglect, abuse, use which is not in accordance with instructions or specifications furnished by Contractor or causes beyond the reasonable control of Contractor or the State or Authorized User, including, but not limited to, acts of God, fire, riots, acts of war, terrorism or insurrection, labor disputes, power failures, surges or electrical damage, transportation delays, governmental regulations and utility or communication interruptions, and (IV) the State or Authorized User has installed and is using the most recent Update, provided to it by Contractor. This warranty is void for any units of a Deliverable which: (i) have not been stored or operated in a temperature range according their specifications, (ii) have been severely handled so as to cause mechanical damage to the unit, or (iii) have been operated or handled in a manner inconsistent with reasonable treatment of an electronic product.

- ii. Contractor further warrants that the EMS Software and the Deliverables (including System Software) will operate in conjunction with the Third Party Products during the Term of the Contract, provided that (i) the State or Authorized User has installed and is using the most recent State certified update provided to it by Contractor, and (ii) the Third Party Products are performing in accordance with their own specifications and documentation in all material respects and are not defective in material or workmanship. In the event of a breach of this warranty, Contractor will, in accordance with Section 1.6 of the Statement of Work, use commercially reasonable efforts to remedy or provide a suitable workaround for defects, errors or malfunctions in the EMS Software or the Deliverables (including System Software) that is causing such breach to occur. The State and Authorized Users acknowledge that Contractor has merely purchased the Third Party Products for resale to State or Authorized User, and that the proprietary and intellectual property rights to the Third Party Products are owned by parties other than Contractor. Subject to the Statement of Work, the State and Authorized User further acknowledge that except for the payment to Contractor for the Third Party Products, all of its rights and obligations with respect thereto flow from and to the Third Parties.
- iii. If the Contractor breaches any of the warranties set forth in this **Subsection d** Contractor will, upon written notice from the State, remedy such breach in accordance with its service and maintenance obligations set forth in Section 1.6 of the Statement of Work, including the time periods set forth in such section. In the event Contractor fails to remedy such breach on a timely basis, the State will be entitled to such remedies as are specified in the Statement of Work or as may otherwise be available under this Contract, at law or in equity for breach of its service and maintenance obligations. During the Initial Service Period (as that term is defined under the Statement of Work), Contractor's obligations under this section shall be at Contractor's sole cost and expense. Upon expiration of the Initial Service Period, the State will pay in accordance with the fees set forth in the Statement of Work.
- e. CONTRACTOR DISCLAIMS ALL OTHER REPRESENTATIONS AND WARRANTIES, WHETHER WRITTEN, ORAL, EXPRESS, IMPLIED OR STATUTORY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY BASED ON A COURSE OF DEALING, COURSE OF PERFORMANCE OR USAGE OF TRADE. OTHER THAN THE WARRANTIES SET FORTH ABOVE REGARDING COMPATIBILITY, CONTRACTOR MAKES NO REPRESENTATIONS OR WARRANTIES AS TO THIRD PARTY PRODUCTS, IF ANY, PROVIDED BY CONTRACTOR TO STATE, ALL OF WHICH IS SOLD, LICENSED, OR SUBLICENSED TO STATE "AS



IS," OTHER THAN AS MAY BE PROVIDED IN ANY PASS-THROUGH WARRANTY. CONTRACTOR HAS NO RESPONSIBILITY OR LIABILITY FOR THIRD PARTY PRODUCTS, IF ANY, PROVIDED BY CONTRACTOR'S DISTRIBUTORS OR OTHER THIRD PARTIES TO STATE. STATE AND AUTHORIZED USERS ARE SOLELY RESPONSIBLE FOR ASSURING AND MAINTAINING THE BACKUP OF ALL CUSTOMER DATA. UNDER NO CIRCUMSTANCES WILL CONTRACTOR BE LIABLE TO CUSTOMER OR ANY THIRD PARTY FOR THE LOSS OF OR DAMAGE TO CUSTOMER DATA

32. **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 Services in connection with this Contract.
33. **Nondiscrimination.** Under the Elliott-Larsen Civil Rights Act, 1976 PA 453, MCL 37.2101, *et seq.*, and the Persons with Disabilities Civil Rights Act, 1976 PA 220, MCL 37.1101, *et seq.*, 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, height, weight, marital status, or mental or physical disability. Breach of this covenant is a material breach of this Contract.
34. **Unfair Labor Practice.** Under MCL 423.324, the State may void any Contract with a Contractor or subcontractor who appears on the Unfair Labor Practice register compiled under MCL 423.322.
35. **Schedules.** All Schedules that are referenced herein and attached hereto are hereby incorporated by reference. The following Schedules are attached hereto and incorporated herein:
- | | |
|-------------------|-------------------|
| Schedule A | Statement of Work |
| Schedule B | License Agreement |
| Schedule C | Pricing |
36. **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 Michigan Court of Claims. Contractor consents to venue in Ingham County, and waives any objections, such as lack of personal jurisdiction or *forum non conveniens*. Contractor must appoint agents in Michigan to receive service of process.
37. **Non-Exclusivity.** Nothing contained in this Contract is intended nor will be construed as creating any requirements contract with Contractor. This Contract does not restrict the State or its agencies from acquiring similar, equal, or like Services or Deliverables from other sources.
38. **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.
39. **Dispute Resolution.** The parties will endeavor to resolve any Contract dispute in accordance with this provision (the "**Dispute Resolution Procedure**"). 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.

40. **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 prior written State approval, and then only in accordance with the explicit written instructions of the State.
41. **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.
42. **Waiver.** Failure to enforce any provision of this Contract will not constitute a waiver.
43. **Survival.** The provisions of this Contract that impose continuing obligations, including warranties and representations, termination, transition, insurance coverage, indemnification, limitations of liability, and confidentiality (and any surviving provisions in the License Agreement), will survive the expiration or termination of this Contract.
44. **Entire Agreement.** This Contract, including its Schedules, constitutes the sole and entire agreement of the parties to this Contract with respect to the subject matter contained herein, and supersedes all prior and contemporaneous understandings and agreements, both written and oral, with respect to such subject matter. In the event of any conflict between the terms of this Contract and those of the Statement of Work or other Schedule, the following order of precedence governs: (a) first, this Contract; and (b) second, the Statement of Work or other Schedule. NO TERMS ON CONTRACTOR'S WEBSITE, BROWSE-WRAP, SHRINK-WRAP, CLICK-WRAP, CLICK-THROUGH OR OTHER NON-NEGOTIATED TERMS AND CONDITIONS PROVIDED WITH ANY OF THE SERVICES, EMS SOFTWARE, DELIVERABLES, OR DOCUMENTATION HEREUNDER 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 SUCH SERVICE, EMS SOFTWARE, DELIVERABLE OR DOCUMENTATION REQUIRES AFFIRMATIVE ACCEPTANCE OF SUCH TERMS AND CONDITIONS.



STATE OF MICHIGAN

Contract No. 071B7700120
Voting System Hardware, Firmware, Software and Service

SCHEDULE A STATEMENT OF WORK CONTRACT ACTIVITIES

This Contract is for voting systems approved for use in Michigan for the Michigan Department of State (MDOS) and includes hardware and firmware (tabulators and all related components, including those for use by voters with disabilities); related Election Management System (EMS) software provided to counties and select local jurisdictions; initial and extended service and maintenance; training and training documentation for county/local jurisdiction clerks and election staff and replacement components/consumables.

This is a multiple-vendor contract award with vendor selection coordinated at the county level and will be a gradual rollout. The rollout is anticipated to begin in conjunction with the August 2017 election, with the anticipated statewide completion by the August 2018 primary election. These schedules will be coordinated at the county level. The accessible voting system component will be rolled out in conjunction with the new voting system. Ownership will be granted directly to the counties and local jurisdictions. Upon agreement with jurisdictions in a county, ownership may be granted to the county for jurisdictions within the county.

A detailed list of the voting system components covered by this Contract, along with associated firmware and EMS software (including version numbers), is included in Exhibit 1 to Schedule A, Federal Voting System Testing / Certification Matrix.

BACKGROUND

In Scope:

This Contract includes:

- Purchase of voting system tabulators and all related components (Election Day precincts: one tabulator per precinct; and Absent Voter Counting Board based on a formula determined by the State.) In addition, one tabulator per county.
- Purchase of accessible voting system components, for use by voters with disabilities (one per Election Day polling location [with some exceptions].) In addition, one accessible device per county.
- Related Election Management System or 'EMS' software. Two EMS software options will be available at the county level:
 - o 1) **Full EMS ("Program Your Own")**, for counties that fully program their elections internally (without reliance on the voting system Contractor/subcontractor for programming); and
 - o 2) **Accumulation-Only EMS**, for counties that rely on the voting system Contractor/subcontractor for programming; the accumulation-only functionality for these counties includes the capability to burn media, read media, transmit results and produce accumulation reports.
- Initial training and training documentation for county/local jurisdiction clerks and election staff.
- Voting System component / consumables costs (replacement or additional components not already covered in initial purchase).
- Initial system/software service and maintenance (acquisition year + four years).
- Extended service and maintenance (after the expiration of the initial service period, + 5 years). Note: in the absence of a State appropriation, local counties and jurisdictions will be solely responsible for the cost of extended service and maintenance.



- Preventative maintenance (every two years).
- NOTE: The Contractor shall provide the State with one full set of all system components at no charge (precinct tabulator; AVCB tabulator; accessible voting device; full EMS software ("Program Your Own" version); all related training and documentation).

Anticipated Key Implementation Timeframes:

Initial acquisition and implementation is expected to progress over the following anticipated planned phases:

- Early to Mid-2017: For counties / jurisdictions that plan to implement the new system's first use in Michigan's August 8, 2017 election;
- Mid-2017: For counties / jurisdictions that plan to implement the new system's first use in Michigan's November 7, 2017 election;
- Early 2018: For counties / jurisdictions that plan to implement the new system's first use in Michigan's May 8, 2018 election;
- Mid-2018: For counties / jurisdictions that plan to implement the new system's first use in Michigan's August 7, 2018 primary election.
- Statewide implementation is expected to be completed by August 2018.

Detailed Specifications

1. Specifications

Exhibit 2, Attachments 1.1-1.4 to Schedule A - Technical Requirements contain detailed technical specifications and requirements for Michigan's next generation voting system.

1.1 Voting System HARDWARE Technical Requirements

Exhibit 2, Attachment 1.1 to Schedule A lists detailed voting system **hardware** technical specifications and requirements. This attachment is broken into several categories, including:

- A. Ballot Counter / Tabulator Requirements
- B. Ballot Requirements
- C. Memory Device Requirements
- D. Ballot Box Requirements
- E. COTS (Commercial Off the Shelf) Options
- F. Reliability Requirements
- G. Security Requirements

Refer to Exhibit 2, Attachment 1.1 to Schedule A for additional details of these requirements.

1.2 Voting System ELECTION MANAGEMENT SYSTEM (EMS) SOFTWARE Technical Requirements

Exhibit 2, Attachment 1.2 to Schedule A lists detailed voting system **Election Management System (EMS) software** technical specifications and requirements. This attachment is broken into several categories, including:

- A. Election Management System (EMS) General Requirements
- B. EMS Programming Requirements
- C. Ballot Programming and Layout Requirements
- D. Election Night Reporting (ENR) Capabilities / Requirements
- E. Reports Requirements
- F. Audit Capabilities / Requirements
- G. System / Software Ownership Requirements

Refer to Exhibit 2, Attachment 1.2 to Schedule A for additional details of these requirements.

1.3 Voting System ABSENTEE VOTING (AV) Technical Requirements

Exhibit 2, Attachment 1.3 to Schedule A lists detailed voting system **absentee voting (AV)** technical specifications and requirements. This attachment is broken into the following categories:



A. AV Processing General Requirements

B. High Speed AVCB Tabulator Requirements

Refer to Exhibit 2, Attachment 1.3 to Schedule A for additional details of these requirements.

1.4 Voting System ACCESSIBLE VOTING SYSTEM COMPONENT Technical Requirements

Exhibit 2, Attachment 1.4 to Schedule A lists detailed voting system **Accessible Voting System Component** technical specifications and requirements. This attachment is broken into several categories, including:

A. Accessible Voting System General Requirements

B. Accessible Voting System – Use of Touch Screen Interface Requirements

C. Accessible Voting System – Use of Paper Ballots (Requirements related to 3 possible scenarios)

D. Reliability Requirements

Refer to Exhibit 2, Attachment 1.4 to Schedule A for additional details of these requirements.

1.5 State and Federal Testing / Certification Requirements

A. Federal Testing and Certification Requirements

Contractor's system shall have been tested and successfully completed all certification steps required by the U.S. Election Assistance Commission (EAC) before the system will be approved for implementation in Michigan. Documentation detailing the system to be implemented in Michigan is included in **Exhibit 1 to Schedule A, Federal Voting System Testing / Certification Matrix**.

Contractor authorizes the State of Michigan to independently verify the status of any system's (or upgrades) Federal testing and certification status with the identified VSTL and the EAC, and authorize the identified VSTL and the EAC to provide information to the State of Michigan.

NOTE: Also see Section **1.5 D – Modification Requirements** (below), related to compliance requirements with future Federal standards.

B. State Testing and Certification Requirements

All voting systems approved for use in Michigan must complete the State voting system certification process, as required by Michigan Election Law.

In sum, this process is designed to ensure that that all voting systems approved for use in Michigan comply with all applicable requirements of Michigan Election Law, 1954 PA 116, MCL 168.1 *et seq.*, and related Rules for Electronic Voting Systems, Mich Admin Code R 168.771 *et seq.*

C. State Uniform Data Format

Contractor agrees and will comply with Michigan-specific uniform data format requirements and Federal IEEE Standards. **Exhibit 6 to Schedule A, Michigan QVF Export File Format** contains the State's current uniform data structure for use with Contractor's voting system EMS software.

Federal IEEE Standards: Upon finalization of voting system uniform data format standards currently under development at the Federal level (commonly referred to as IEEE standards), Contractor shall work with the State to seamlessly convert the State uniform data structure to comply with and implement the IEEE uniform data format at an agreed-upon time.

D. Modification Requirements

In the event that any modifications become available and/or necessary after delivery due to changes in the applicable Federal and/or State certification standards and/or laws that occur during the Contract period, the Contractor and the State will jointly review and agree upon the scope of, and cost for, any modifications required by such subsequent changes in Federal and/or State certification requirements and/or law. As part of this determination process, the Contractor shall thoroughly review the impact of such changes and develop a scope of work and cost analysis for review and approval by the State before proceeding with any applicable modifications.

System changes that are implemented through this process shall be accepted through the change notice process and included in the Contract as described in **Section 4** in the Contract Terms.

The Contractor shall provide written notice to the State Program Manager of any system modifications made on behalf of jurisdictions outside the State of Michigan. Such notice shall be provided no later than one month after the modification is made available.



1.6 Service and Maintenance

The Contractor shall maintain a physical presence in Michigan. The Contractor shall maintain a Michigan regional office with additional offices to open as deemed necessary to assist Michigan customers in conducting elections. The Michigan regional office will include:

- Office Manager to assist in managing contract help; assigning duties and functions
- Michigan Programmer/Coder responsible for coding for Michigan customers and assisting Michigan customers on site and in office via phone or WebEx, etc.
- Personnel who can assist clerks on-site with test charts, test decks, coding, logistics and accuracy testing, election site support, etc. Personnel will have extensive experience in elections and Contractor's hardware and software to perform these duties.

The Contractor's **Regional Service and Maintenance Plan** is as follows.

SERVICE TECHNICIANS

The Contractor's three (3) full-time Service Technicians, currently Michigan residents, will continue to live in and service Michigan jurisdictions. The Contractor may add additional technicians, both Michigan residents and certified Contractor technicians who live in other states, along with contractors, to meet the needs of Michigan customers at any time. If additional staff are to be added, Contractor shall notify Program Manager as specified in Section 3.3 Disclosure of Subcontractors.

The Upper Peninsula of Michigan is currently serviced by the Contractor's technician noted below, who lives in Neenah, Wisconsin.

Michigan technicians are:

Technician	Address	Territory	In State/ Out of State
Dennis Rzepka	Vandalia, MI 49095	Southwest to mid-west Michigan	In state
Charles Seets	Orion, MI 48359	Southeast to mid-east Michigan	In state
Brian Stark	Cadillac, MI 49601	Upper and lower Michigan	In state
Dan Detampel	Neenah, WI 54956	Upper Michigan	Out of state

The Contractor's technicians also travel to other areas when necessary (coverage for vacations, to assist with large customer preventative maintenance events). They attend annual, company required training meetings and already have knowledge of the DS200; ExpressVote and DS450. They will receive further training on this equipment, and on Electionware software.

The Contractor's service technicians are available daily from 8 a.m. to 5 p.m., with extended hours at Election time.(See Section 1.6.C)

If a subcontractor is to be used for service and maintenance, the subcontractor must be identified, along with any Key Personnel (see **Section 3.3**); as well as relevant experience the subcontractor has with relation to the service and maintenance of the system being proposed.

All of Contractor's employees and subcontractors are required to pass a background check. The Contractor uses the following methods for training subcontractors:

- o Subcontractors visit Contractor's headquarters in Omaha to receive extensive hands-on equipment training and testing from Contractor's technical trainers, which ultimately results in certification on the given equipment.
- o Contractor also secures classroom training space within a State. In such an instance, the Contractor provides technical trainers and the equipment to be used for training. Instruction includes hands-on time with the equipment and testing of knowledge transfer before individuals are certified.

Note: Technicians in training work alongside Contractor's technicians in the field before they visit a customer's site alone.



This Contract includes initial, ongoing and extended service and maintenance to include all of the following:

A. Service and Maintenance

The Contract shall cover an initial service and maintenance period on all Deliverables, System Software, and EMS Software (as those terms are defined under the Contract Terms) that shall be in effect throughout the acquisition year + 4 years (the "**Initial Service Period**"), and shall be provided at no additional cost. Extended service and maintenance on all Deliverables, System Software, and EMS Software shall cover the time period from the expiration of the Initial Service Period + 5 years (the "**Extended Service Period**"). Both the Initial Service Period and the Extended Service Period must cover all Deliverables, System Software and EMS Software, including any parts and labor. During the contract period, the Contractor shall repair or replace any Deliverable, System Software and/or EMS Software that becomes inoperable, is defective in material or workmanship, or otherwise fails to perform substantially in accordance with the Documentation and Contract requirements.

Deliverables and System Software:

During the term of the Contract, Contractor shall provide the following support and maintenance services (including unlimited telephonic support and all necessary travel and labor) to maintain the Deliverables and associated System Software in accordance with the Documentation and Contract requirements:

1. Upgrades to System Software. Make available to the State and any Authorized User no later than the first day of general release, or such other time as may be mutually agreed upon by the parties, copies of the System Software and documentation revised to reflect any enhancements (including New Versions and upgrades) to the System Software.

During the **Initial Service Period and Extended Service Period**, Contractor will provide new releases, upgrades or maintenance patches to the System Software or EMS Software, together with appropriate Documentation ("Updates"), on a schedule defined by Contractor as may be mutually agreed upon by the parties. The State or Authorized User is responsible for obtaining any upgrades or purchases of Third Party Products required to operate the Updates. Information on new required Third Party Products shall be provided to the State and Authorized Users prior to a decision being made on whether, or when to implement the Update. The State or Authorized User may install the Updates in accordance with Contractor's recommended instructions or may request that Contractor install the Updates. If the State or an Authorized User requests that Contractor install the Updates and Contractor is unable to install the Update in conjunction with a routine maintenance event or other previously scheduled repair visit, Contractor may charge the State or Authorized User to install such Updates in accordance with the pricing set forth in Schedule C-Pricing. In addition, in the event the State or Authorized User requests that the Contractor train the State or Authorized User on the Updates, the Contractor may charge the State or Authorized User for such training in accordance with the pricing set forth in Schedule C-Pricing.

Acceptance of system upgrades will proceed as outlined in **Section 1.5D, Modification Requirements.**

2. Known Defects. Contractor shall promptly notify the State and any Authorized User of any defects or malfunctions in the Deliverable, associated System Software or Documentation of which it learns from any source, correct any such defects or malfunctions or provide a workaround until corrected within five (5) Business Days of knowledge of such defect or malfunction and provide the State or Authorized User with corrections of same, at no additional cost to the State or Authorized User. If the correction of known defects requires Federal or State certification, acceptance of the correction will proceed as outlined in **Section 1.5D, Modification Requirements.**
3. Coverage. See Section 1.6(C)(1) below.
4. Service Levels. Contractor shall respond to problems with the Deliverable identified by the State or an Authorized User in no more than two (2) hours after notification during periods in which the Contractor's help desk support is open and staffed. (See Section 1.6.C.) Resolve all problems as specified in Section 1.6(C)(2) below. For purposes of this section, "resolve" means that Contractor has provided all parts, components and services required to correct the defect and restore such Deliverable so that it functions as warranted, and the State or Authorized User has confirmed such correction and its acceptance of it in writing; or Contractor shall replace it, so that it functions as warranted, and the State or Authorized User has confirmed such replacement and its acceptance of it in writing. Services provided by Contractor to correct the defect shall be on-site, and Contractor shall be solely responsible for any shipping cost to return any Deliverable to Contractor.
5. Remedies. If Contractor is unable to make the Deliverable conform, in all material respects, to the Contract requirements and Documentation within thirty (30) calendar days following written notification by the State or an Authorized User, Contractor shall, at the State's or such Authorized User's request, return all monies paid by the State or such Authorized User per the direction of the State Program Manager for the non-conforming Deliverable and Documentation and such other related Service(s) rendered unusable, including any prepaid maintenance fees associated with that Deliverable.



Contractor will accept return of the Deliverable and refund to the State a pro rata portion of the purchase price paid to Contractor for the defective Deliverable, such refund based on a straight line depreciation over a ten (10) year term beginning on the date of purchase.

EMS Software: During the term of the Contract, Contractor shall provide the following support and maintenance services (including unlimited telephonic support and all necessary travel and labor) to maintain the EMS Software in accordance with the Documentation and Contract requirements:

1. Maintenance Releases and New Versions. Contractor shall provide to the State and Authorized Users, at no additional charge, and no later than the first day of general release or such other time as may be mutually agreed upon by the parties, with all Maintenance Releases and New Versions (as those terms are defined in the Contract Terms) of the EMS Software.

In addition, during the **Initial Service Period and Extended Service Period**, Contractor will provide new releases, upgrades or maintenance patches to the System Software or EMS Software, together with appropriate Documentation ("Updates"), on a schedule defined by Contractor as may be mutually agreed upon by the parties. The State or Authorized User is responsible for obtaining any upgrades or purchases of Third Party Products required to operate the Updates. Information on new required Third Party Products shall be provided to the State and Authorized Users prior to a decision being made on whether, or when to implement the Update. The State or Authorized User may install the Updates in accordance with Contractor's recommended instructions or may request that Contractor install the Updates. If the State or an Authorized User requests that Contractor install the Updates and Contractor is unable to install the Update in conjunction with a routine maintenance event or other previously scheduled repair visit, Contractor may charge the State or Authorized User to install such Updates in accordance with the pricing set forth in Schedule C-Pricing. In addition, in the event the State or Authorized User requests that Contractor train the State or Authorized User on the Updates, Contractor may charge the State or Authorized User for such training in accordance with the pricing set forth in Schedule C-Pricing.

Acceptance of maintenance releases and new versions will proceed as outlined in **Section 1.5D, Modification Requirements.**

2. Known Defects. Promptly notify the State and all Authorized Users of any defects or malfunctions in the EMS Software or Documentation of which it learns from any source other than the State or an Authorized User and provide to all Authorized Users a correction of any such defects or malfunctions, or a work around until a correction is available, within five (5) days of Contractor's knowledge of such defect or malfunction. If the correction of known defects requires Federal or State certification, acceptance of the correction will proceed as outlined in **Section 1.5D, Modification Requirements.**
3. Coverage. See Section 1.6(C)(1) below.
4. Service Levels. Respond to problems with the EMS Software identified by the State or an Authorized User in no more than two (2) hours after notification. Resolve all problems according to the following:
 - Priority 1 (EMS Software inoperable) within one week.
 - Priority 2 (certain processing interrupted or malfunctioning but EMS Software able to process) within two weeks.
 - Priority 3 (minor intermittent malfunctioning, EMS Software able to process data) within 30 days.

The level of severity (e.g., Priority 1, 2, or 3), shall be defined by the State or Authorized User. For purposes of this section, "resolve" means that Contractor has corrected the problem that prompted the support request so that the EMS Software functions as warranted, and that the State or Authorized User has confirmed such correction and its acceptance of it in writing; or Contractor shall reinstall the EMS Software, so that it functions as warranted, and the State or Authorized User has confirmed such reinstallation and its acceptance of it in writing.

5. Remedies. If Contractor is unable to make the EMS Software conform, in all material respects, to the Contract requirements and Documentation within thirty (30) calendar days following written notification by the State or an Authorized User, Contractor shall, at the State's or such Authorized User's request, cancel the license to such EMS Software, accept return of such EMS Software and Documentation, if applicable, rendered unusable, and return all monies paid by the State or such Authorized User per the direction of the State Program Manager for the non-conforming EMS Software and Documentation and such other related Service(s) rendered unusable, including any prepaid maintenance fees associated with the EMS Software.

Contractor will accept return of the EMS Software and refund to the State a pro rata portion of the license fee paid to Contractor for the EMS Software, such refund based on a straight line amortization over a ten (10) year term beginning on the date of purchase.

B. Preventative Maintenance (Tabulators/accessible voting system components only)



- Biennial (every two years) preventative maintenance package
- Preventative maintenance must consist of standard steps and checklists for each tabulator/accessible voting system component

Service and maintenance also includes preventative maintenance (PM) for tabulators / accessible voting system components on a biennial basis under Contractor's Silver coverage plan, throughout the contract term.

Silver Maintenance Program

Under Contractor's Silver Maintenance Program, Contractor provides an onsite routine preventative maintenance service event once every twenty-four (24) months. Contractor's Silver Maintenance Program also includes ongoing phone support, parts, and onsite repair services by certified trained ES&S technicians.

Contractor's service technicians carry diagnostic programs, specialized tools, an ample inventory of certified spare parts, and test ballots allowing them to service and test the product according to the hardware specifications and the maintenance agreement. Under this maintenance plan, hardware repairs are covered when failures are considered to be system-related.

The routine preventative maintenance service event includes the cleaning and lubrication of each unit of equipment and all labor and parts (except consumable items such as printer cartridges, paper rolls, batteries – except motherboard batteries, which shall be included, removable memory devices, or marking instruments).

Core features for the Silver coverage plan include the use of certified replacement parts, technical help desk support, priority status for repair services, software and firmware upgrades, repairs by trained and certified technicians, and one annual invoice that provides budgeting peace of mind.

Refer to Schedule C-Pricing for pricing on all consumables, as well as information on how and when to obtain replacement consumables, and consumables that are available commercially off-the-shelf (COTS).

Contractor reserves the right to update the consumable items as may be necessary from time to time in the event such consumable items reach end of life or new manufacturers/supplies are needed to support Contractor's voting system products. Contractor shall notify the State as soon as practicable when such changes are necessary and shall provide the State with updated information regarding any new consumable items and/or manufacturers/supplies. In addition, Contractor will ensure that all new consumable items and manufacturers/supplies meet all applicable requirements under the Contract and applicable law.

If counties and/or local jurisdictions request additional on-site preventative maintenance services, these additional services are not covered under this Contract. Counties and/or local jurisdictions are free to negotiate with Contractor for additional preventative maintenance services.

Because any Third Party Product warranties pass through to the State or Authorized User, Contractor does not maintain or replace such products. However, Contractor provides support in assisting the State and Authorized Users in resolving any Third Party Product warranty claims the State or Authorized User may have with respect to any Third Party Products provided by Contractor under this Contract.

Counties and/or local jurisdictions should not remove or alter the serial number from any product. If it is removed, Contractor is not obligated to repair the product. Serial numbers are firmly affixed to Contractor's equipment on electronic industry service tags. These electronic service tags are affixed in the same manner as electronic industry service tags found on PCs and purpose-based electronics.

Preventative maintenance schedules for individual counties shall be finalized with input and approval by the individual counties. See **Section 1.6C(4)** below.

Preventative maintenance must consist of standard steps and checklists for each tabulator / AVCB tabulator and accessible voting system component. Refer to Exhibit 3 to Schedule A, Preventative Maintenance Checklists (DS200, ExpressVote, and DS450). The State has final approval over all preventative maintenance checklists.

Sole Provider; Access. The State or Authorized User shall not permit any individual other than Contractor personnel to provide maintenance or repairs with respect to the Contractor voting system tabulator or accessible voting system device for so long as the Initial Service Period and the Extended Service Period is in effect. The State or Authorized User shall provide Contractor personnel with all information necessary to enable them to provide Maintenance and Support Services. The State or Authorized User shall likewise provide full access to the voting system tabulators or accessible voting system devices and adequate working space for all Maintenance and Support Services performed at its Designated Location, including sufficient heat, lights, ventilation, electric current and outlets.

Storage. When not in use, voting system tabulators and accessible voting systems devices should be stored in a clean, secure environment. During operation of the voting system tabulators and accessible voting systems devices, the facility temperature range should be 50° to 104° and the moisture range should be 10% to 50% relative humidity.



C. Technical Support Response Requirements

- Help Desk Telephone Support
- Equipment Repair/Replace
- Reporting Requirements
- Support Personnel

NOTE: Counties and local jurisdictions may contract and pay separately for Election Day Support, which will entail dedicated Election Day support resources and specific additional requirements beyond what is listed here. Counties and local jurisdictions will not be limited in the number of help desk calls.

1. Help Desk Telephone Support

- a. Toll-Free Number: 877-ESS-VOTE (877-377-8683)

This toll-free number must allow callers to speak directly to live support representatives that are equipped to handle Michigan customer service, technical support, and other needs identified in the Contract.

- b. Timeframe availability: Help Desk support is available from 8 a.m. to 8 p.m. (Eastern Time), Monday through Friday, and, on Election Day, for a 24-hour period beginning at 5 a.m. Eastern Time. During Federal and statewide election-critical periods (Election Day and 2 weeks prior), Contractor will augment their Help Desk staff and hours to ensure availability.

Contractor offers multiple support channels to assist the State and Authorized Users with issues and concerns ranging from simple "how-to" questions to complex hardware and software troubleshooting assistance when needed. In addition, Contractor provides support in assisting the State and Authorized Users in resolving any Third Party Product warranty claims the State or Authorized User may have with respect to any Third Party Products provided by Contractor under this Contract. The multiple channels for contacting the Contractor include:

* E-mail support – Customers can communicate directly with Contractor's dedicated Account Manager or specialized Help Desk support and technical representatives via e-mail at hardware@essvote.com and software@essvote.com.

* FAX support – Facsimile support is available at Contractor's corporate headquarters at (402) 970-1276. Customer requests or inquiries arriving at this number are distributed to the appropriate office within Contractor's organization for immediate response.

In the event the State or an Authorized User experiences an issue with its Third Party Products provided by Contractor under this Contract, the State or Authorized User may call into Contractor's help desk support for assistance. Contractor's help desk support will troubleshoot the issue and attempt to resolve the issue. If it is determined that the Third Party Product must be repaired or replaced, Contractor will assist the State or Authorized User in contacting the Third Party developer or manufacturer in order to resolve the issue associated with the Third Party Product. Although Contractor will assist the State or Authorized User in contacting the Third Party developer or manufacturer in order to help resolve the matter, all rights, remedies, warranties and obligations with respect to the Third Party Products are directly between State or Authorized User and the Third Party.

- c. Response time for calls: Response to calls is required within two hours of receipt of the call.

Contractor's process for escalating and ensuring all Election Day support calls are handled and resolved as expeditiously as possible, is as follows:

NOTE: On Election Day, customers are encouraged to contact the help desk first for the most rapid response since it is augmented with additional support staff during election periods.

Tier 1: The State of Michigan Customer Service Manager will provide basic technical and procedural election phone support to the State, Counties and local jurisdictions. Support also is available through the Contractor's other State of Michigan Project Team members.

Tier 2: The State of Michigan customer will contact the Help Desk in Omaha, Nebraska, to report an incident. The Help Desk can be reached on weekdays between the hours of 8am – 8pm Eastern or a message can be left at any time for the on-call hardware/software representative. On Election Day, hours are extended for a 24-hour period beginning at 5 a.m. Eastern. As soon as it becomes clear that the Help Desk is unable to resolve the incident itself, the incident will be escalated to Tier 3 support.

Tier 3: This level of escalation typically includes consultation with Contractor's internal departments responsible for hardware and software engineering and development. If the incident is significant or appears to be taking longer than



desired by the customer, the Contractor's appropriate managers will be notified so that they can take appropriate actions necessary to resolve any resource allocation conflicts impeding the resolution of the incident. Responsibility for tracking the incident remains with the Tier 2 service support level. Tier 2 is responsible for notifying the State of Michigan customer the status of the resolution. Follow up to the State should occur on a daily basis from the State of Michigan Project Manager.

- d. For local jurisdictions contracting for Election Day support, an after-hours "emergency" toll-free number must be available for on-call service and support.

Contractor's dedicated toll-free customer support telephone number is 877-ESS-VOTE (877-377-8683) for all customers under this Contract. On Election Day, the support line is staffed for 24 hours starting at 5 a.m. Eastern Time.

2. Equipment Repair/Replace

- a. Contractor must maintain a reasonable supply of certified manufacturer replacement parts and components necessary to repair malfunctioning equipment and return it to service as soon as possible. Technicians must be equipped with all commonly required spare parts.
- b. During the Initial Service Period and so long as the State or Authorized User is covered under the Extended Service Period, equipment repair shall occur on-site, unless there is a demonstrable need to ship the equipment off-site for service, repair, or replacement. (See paragraph e. below.)
- c. Equipment shall be repaired or replaced within ten business days. Contractor shall have a process for escalating and ensuring all Election Day equipment problems are handled and repaired/replaced as expeditiously as possible. Prior to Election Day, repaired/replaced equipment shall be available to allow for adequate time for pre-election testing and successful use on Election Day.

On Election Day, equipment shall be repaired as soon as possible that day or within ten (10) days following Election Day. The process for Election Day repairs is as follows: The customer contacts hardware support to request repair; telephone support personnel attempts to assist the customer in making the repairs over the phone; if unable to resolve over phone, a technician is dispatched. A technician will make every attempt to complete the repair on Election Day; If unable to repair and restore the equipment to normal working condition on Election Day, the technician will make arrangements for a loaner unit to be provided to the Authorized User and complete the repair of the replaced unit within the 10-day term required. Contractor agrees and will comply in that all repairs reported prior to Election Day will be completed.

To improve the efficiency of the use of Contractor's field technicians, Contractor encourages jurisdictions to complete all testing before contacting Contractor's Hardware Support for repairs. This practice will result in the most efficient utilization of Contractor's field technicians, thereby, providing better and faster service to customers.

In addition to the provision of a loaner unit (as specified above), Contractor recommends jurisdictions determine their own contingency plan. With a reliable contingency plan, if a machine goes down, voting can continue. For example, the jurisdiction may tabulate ballots at a later time from the auxiliary bin from the inoperable machine using extra equipment on hand, or tabulate ballots from the auxiliary bin on an operable machine at the end of the day (after tapes and totals are produced on that machine).

Contractor will provide hardware maintenance and software maintenance and support during the Initial Service Period and Extended Service Period. During the Initial Service Period and Extended Service Period, Contractor will repair or replace any of their proprietary equipment or software that is defective in material or workmanship, or otherwise fails to perform substantially in accordance with Contractor's documentation. All upgrades, new releases, and maintenance patches for Contractor's proprietary software will be provided without additional charge during the Initial Service Period and Extended Service Period.

- d. At the State's or Authorized User's request, Contractor shall promptly make available to the State or Authorized User on Election Day a product that is the same as, or substantially similar to, the Product for which Remedial Maintenance Services are being performed (a "Loaner Unit"). If Contractor is substituting a different product for the Loaner Unit, such product must be fully compatible with Authorized User's system. The Loaner Unit shall be provided to State or Authorized User at no charge unless the repair services for the original unit are being provided as a result of an act or omission by the State or Authorized User or as a result of a force majeure event as set forth in Section 38 of the Contract.

Note: The Contractor will provide one (1) each of the DS200 Tabulator and ExpressVote Accessible Voting Terminal to each County at no charge. Additional backup units may be purchased from Contractor at the contract price shown in Schedule C- Pricing, Cost Table 1.



- e. If a demonstrable need exists to ship equipment for service, repair, or replacement, the Contractor shall pay the full cost of shipping and all related expenses, including packing materials. Shipping costs for third party non-ES&S proprietary hardware and software are paid pursuant to such third party manufacturer's warranty terms.

All COTS components of Contractor's systems have been identified in Schedule C – Pricing, Cost Table 4. The non-consumable/replacement COTS components consist of the Reports and Audit printers for the DS850 and DS450 Central Scanners/Tabulators. These printers are not covered by Contractor's Warranty and/or Service and Maintenance Programs and are therefore subject to the warranty terms and conditions of the COTS purchase source. Although Contractor will inspect the COTS components of our systems to determine if they require repairs, any costs associated with the repair/replacement of these items shall be borne by the State or its authorized users.

3. Reporting Requirements

- a. Contractor shall promptly provide the counties and local jurisdictions with written information on any tabulator/accessible voting system hardware, firmware and/or EMS software problems that are encountered wherever the equipment is in use (inside or outside of Michigan), along with written instructions explaining the solution to those problems. Copies of these communications shall also be provided to the State's Contract Administrator and Program Manager at the time of issuance to the counties and local jurisdictions. The State's Contract Administrator and Program Manager shall also receive prompt written notice whenever a problem exists that may affect multiple jurisdictions.

Contractor's Technical Support uses an internal ticketing system to capture all incidents. Upon request by the State's Contract Administrator and Program Manager, the Contractor can provide all tickets. Contractor's ESynergy Customer Portal can notify all customers immediately when a new Product Advisory explaining the issue and resolution is published related to their equipment and version.

- b. Contractor shall provide written reports on a monthly basis (or on a regular timeframe mutually agreed upon between the State and the Contractor) that summarize all service and maintenance work completed during the reporting period; all service and maintenance work scheduled for the upcoming reporting period; and any unresolved problems or other issues that may affect multiple jurisdictions. These reports shall be submitted via email to the State's Program Manager.
- c. Contractor shall promptly notify the State's Contract Administrator and Program Manager in writing of any material errors or defects in the tabulator/accessible voting system hardware, firmware, software and/or EMS software deliverables known, or made known to Contractor from any source (inside or outside of Michigan) during the Contract term that could cause the production of incomplete, inaccurate, or otherwise materially incorrect, results. Contractors shall immediately initiate actions as may be commercially necessary or proper to effect corrections of any such errors or defects.

4. Support Personnel

The Contractor shall provide well-trained and knowledgeable election service technicians for all activities that are the Contractor's responsibility. The Contractor is staffed with veteran certified technical support personnel, including six (6) Software Support technicians and four (4) full-time Hardware Support technicians, three which live in Michigan.

The Contractor must maintain election service technicians in various areas of the state to meet the counties' and local jurisdictions' service and maintenance needs and to conform with response time requirements. Counties and local jurisdictions have the right of approval for any support personnel provided at the county/local level.

During peak election periods, Contractor will respond rapidly to minimize the impact of the issue on the preparation for or conduct of the election. During Election Day activities, Contractor's Omaha help desk is staffed on an extended hour schedule to meet the various poll open and closing times for their customers across North America. During election time, Contractor shall augment their technical support team to further ensure that issues will receive an immediate response when their help desk is contacted.

For on-site preventative maintenance visits and when service and maintenance needs require an in-person visit by an election service technician, Contractor staff must work with counties and local jurisdictions to establish mutually agreeable timeframes and locations for repairs and preventative maintenance services. The Contractor must develop a proposed on-site preventative maintenance schedule for review and approval by the counties and local jurisdictions; counties/local jurisdictions are not responsible for developing this schedule.

Service events are assigned to the local technician who then contacts the jurisdiction to schedule the date and time for the service event. Upon award of the contract, Contractor will develop a proposed preventative maintenance schedule for review and approval by the county and local jurisdictions. Refer to on-site preventative maintenance options included in the warranties as specified in **Section 1.6B**.

While on-site, election service technicians must establish contact with the designated jurisdiction representative upon arrival and before leaving. Contractor staff must provide jurisdiction staff with a copy of the completed Preventative Maintenance Checklist,



a written status report upon completion of support/maintenance work, indicating the work that was completed, any outstanding issues and the plan for resolving those issues.

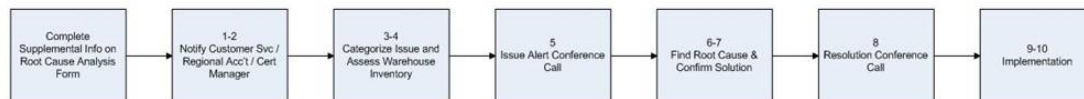
All service technicians shall:

- a. Be well trained, professional, knowledgeable and experienced in the maintenance and repair of tabulators, accessible voting components, firmware and EMS software; and capable of replacing malfunctioning equipment in county/local jurisdiction offices, storage facilities and/or the polling place.
- b. Have reliable dedicated transportation of sufficient size to accommodate the transport of voting equipment as needed.
- c. Maintain a reasonable supply of certified manufacturer replacement parts and components necessary to repair malfunctioning equipment and return it to service. Contractor's technician manages inventory assigned to them. They have access to an overnight shipment, in most areas, if they need a part not included in their inventory.
- d. Have cellular telephones or other means of real-time communication, and must provide this information to the designated jurisdiction representatives. All service calls are directed to Contractor's Technical Services at 877-377-8683 option 4 option 1. The technician will log the call into the Contractor's system and work with the jurisdiction to try to resolve the problem, if the problem is not resolved, the technician will issue a ticket to Field Service and a work order will be sent to the technician's smart phone and the technician will contact the jurisdiction, schedule a visit and update the Contractor's database with the scheduled date. After completion of the call the technician will close the service call and report any parts used and the entire record of the call is maintained in the Contractor's database.

1.7 Product Recall Requirements and Procedures

Contractor's procedures related to product recall, covering how and when it is determined that a product recall is needed, how information on product recalls is communicated to customers and how product recalls are tested, scheduled, deployed and completed are described as follows:

1. **How and when is it decided that a recall is needed?** A recall is determined through a 10-step root cause analysis process as



follows:

The Product Line Engineer uses a Field Issue Resolution form, aka Root Cause Analysis, which provides a roadmap for how to gather information, inform affected parties, find root cause, effect the change and communicate the resolution to the field.

The most critical reason for a recall is a vulnerability in the system that jeopardizes the integrity of an upcoming election. Additional justifications for a recall would be:

- a) A configuration has been delivered that does not match the certified or otherwise approved configuration in that jurisdiction
 - b) A part or manufacturing quality issue has gone undetected in the equipment delivered to a customer.
2. **How is it decided what is recalled? How is that information communicated to customers?** If Contractor sent a hardware configuration that has not been certified or otherwise approved for a particular jurisdiction, Contractor would recall that shipment and replace it with the properly configured version. In the case of a vulnerability and/or a quality issue, Contractor would prefer to perform repairs under the controlled environment of our manufacturing facility in Omaha, Nebraska. When this is not possible due to the customer's election schedule or the sizable logistics involved, the repairs would be made either on-site at the customer or in a local facility using Contractor trained staff. Contractor's first line of communication to the customer is the Customer Account Manager.
 3. **How are product recalls tested, scheduled, deployed and completed?** Not all recalls would result in a product change. In the case of inadvertently delivering a hardware configuration that hasn't been certified or otherwise approved, this equipment would simply be exchanged. Corrective action would be applied to Contractor's order entry/certification notification system.

In the case of a "bad" component or manufacturing process, Contractor would work with the part supplier/manufacturer to implement corrective action to realign their processes with the previously certified level of performance. Updates to fielded equipment would be coordinated with the affected jurisdiction while ES&S heightened the associated inspection criteria until statistical compliance was demonstrated.

Finally, if a certified configuration or otherwise approved configuration contains a part or component that does not perform sufficiently, the following resulting mitigation steps must be approved by the Elections Assistance Commission (EAC) unless an alternate process is approved by the jurisdiction:

- a) Performing a root cause analysis
- b) Thoroughly testing and documenting the solution
- c) Generating an Engineering Change Order (ECO)
- d) Submitting ECO and supporting documentation to the EAC for evaluation
- e) As required, performing additional testing at a voting system test lab
- f) EAC approval allows the ECO to be taken to the affected states for approval.



The EAC also has a "Provisional, Pre-Election Emergency Modification" process in the case when an election is eminent, not providing sufficient time to complete the certification process for a required change.

1.8 Quality Assurance Program

Contractor must have Quality Assurance programs in place for the voting system, accessible voting system components and related EMS software products, covering ongoing programs that test, validate and upgrade hardware, firmware, software and other key components.

Contractor has distinct and separate development and quality assurance (QA) departments. At different phases during the Agile development process, developers will provide a build that will be subjected to thorough testing by the QA department. As an integral part of our certification testing process, Contractor has a dedicated team of QA and Federal Certification testing specialists whose primary responsibility is to conduct stress, volume, and regression testing for all hardware and software components of the system that will be examined by the VSTL and certified by the EAC and the State certification bodies. The rigorous testing methodology allows Contractor to completely test each new release from end-to-end before it is reviewed by the Federal testing authorities. The testing plans are built to thoroughly stress each component to validate that the entire system meets or exceeds the VVSG requirements mandated by the EAC. By the time a certified release is approved by the Federal and State authorities, Contractor assures that the production hardware and software components of the system will work as required.

Contractor has 31 software development staff, 13 quality assurance analysts, and 8 dedicated Certification test specialists specifically dedicated to the development, ongoing maintenance, and compliance of Contractor's voting system. In addition, Contractor has 10 dedicated software and hardware technical support staff that are responsible for providing direct technical support to customers. As needed, Contractor can tap into additional pools of technical and development staff from other areas.

Available system upgrades shall be communicated and offered through the life of this Contract as described in **Section 1.5 D** (State Certification Process, Modification Requirements).

1.9 Incentives

The Contractor offers a trade-in discount program for all existing tabulators, including M100, AccuVote, Optech, ballot boxes and AutoMARK ADA units, whereby the Contractor would take possession and ownership of existing voting systems, to assist counties and local jurisdictions in disposing of voting systems currently in place in the State of Michigan. Pickup of trade in units will occur at a mutually agreed-upon time at Contractor's expense. Refer to **Schedule C, Pricing for trade-in discount program available under this Contract**.

2. Service Levels

2.1 Time Frames – Order Placement and Processing

Refer to the Background and Purpose section (under *KeyTimeframes*), for detail on the planned multiple purchasing phases.

After Contract execution, a vendor selection process will occur at the County level. Counties, in consultation with their local jurisdictions, will select a single system for the county. MCL 168.771a. Counties will also work with their local jurisdictions to determine a local funding plan (if necessary) and select a purchase phase for each jurisdiction.

Given the State's proposed implementation approach and timeframes, Contractor has provided details on the planned timeframes for delivery, testing and training for each purchase phase.

Refer to Section 9.9 Project Plan for further details. Also refer to Section 2.2 (Delivery), Section 2.6 (Training) and Section 5 (Ordering) for additional details.

2.2 Delivery

Contractor shall develop a county-by-county implementation plan for delivering and conducting acceptance testing in each county/jurisdiction prior to each purchasing phase. Delivery plans, timeframes and locations must be mutually agreed upon between the Contractor and the County.

Voting systems, accessible voting system components, related EMS software and all related components must be delivered and acceptance testing completed no later than 90 calendar days prior to the system's first use.

Acceptance testing will consist of accuracy tests as prescribed under the Electronic Voting System Promulgated Rules, Mich Admin Code R 168.771 *et seq.* and State standard test deck processes, for both primary and general elections.

Prior to shipment, testing will be completed by Contractor personnel per the Contractor's Acceptance Testing Checklist. Acceptance Testing will be completed by Authorized Users, for completion of system acceptance and sign-off.

2.3 RESERVED

2.4 RESERVED



2.5 RESERVED

2.6 Training

- A. Training Documentation - within 30 calendar days after Contract execution, the Contractor shall provide 10 copies of user manuals and step-by-step procedures for using the voting system and all components, accessible voting system components and EMS software to the State Program Manager or designee. This material shall be provided both in paper and electronic (e.g., pdf) form. Delivery of equipment and software to the Counties and local jurisdictions must include at least one complete set of training documentation (both electronic (e.g. pdf) and paper form) for each County and local jurisdiction.
- B. Electronic Training Modules – Within 30 calendar days after Contract execution, the Contractor shall provide an electronic training course (e.g., video, web-based, etc.) that can be viewed, downloaded, and published online by the State, county and local election officials, covering end-to-end operation of the system; step-by-step procedures covering equipment set up, processing and close-down procedures; and other relevant information related to the use of the voting system and its components, and accessible voting system components. The electronic training module must be no longer than 30 minutes in length and be suitable for use as part of a training program for election inspectors (Election Day precinct workers). The electronic training modules must be provided in a format that allows the State to utilize the content (in whole or in part) in State-specific online training courses.

Contractor will provide two training modules for each tabulation product to the State within 30 days of contract execution. Contractor's courses/modules can be provided in a format for use on State, County or local election officials website(s). Contractor's Pre-Election Day module includes setting up and testing of the equipment. Contractor's Election Day module is geared toward Election Inspectors. This module covers opening polls, voting procedures, and closing the polls. Such electronic training modules are considered Contractor's Intellectual Property. Therefore, the State and Counties may not profit from related use or distribution.

- C. In-Person Training –Contractor's plan for training State staff and local election officials (including but not limited to county and local clerks) on the operation and use of the new voting system, accessible voting system components and EMS software, include, but will not be limited to the following:
 - a. Use of the EMS to set up an election and design and layout ballots
 - b. Programming of tabulators and related component(s)
 - c. Programming of accessible voting system component(s)
 - d. Programming and use of tabulators and related component(s) used in AVCBs
 - e. Preparation of tabulators and accessible voting system components, including setup and pre-election testing
 - f. Election day operations from the opening to the closing of the polls
 - g. Processing of voters and absentee ballots
 - h. Processing write-in votes
 - i. Adjudicating ballots that may require manual review
 - j. Troubleshooting – identifying and resolving basic problems (issues that do not require a service call)
 - k. Security, including safeguards to prevent and detect tampering
 - l. Tabulation of results
 - m. Electronic transmission of election results
 - n. Printing standard reports
 - o. Customizing reports
 - p. Checks and balances – methods for ensuring the accuracy of precinct results
 - q. Full understanding of audit procedures
 - r. Any special requirements related to conducting a recount using the tabulator
 - s. Records preservation
 - t. How and when to place service calls
 - u. Any other pertinent processing steps as recommended by the Contractor

Refer to Contractor's training plan below.
- D. Refer to Contractor's course descriptions in the training plan below for details related to the conduct of in-person training, including the length of the training session; structure for the sessions (e.g., multiple day training; separate courses covering specific topics, such as EMS-only training; number of contractor staff hours per session; recommended number of participants per session; and alternative training formats, such as *train-the-trainer*).
- E. Counties shall have final approval of their individual Contractor-conducted training plans, including the number of sessions, locations and participants per session.
- F. The Contractor shall assist county and local election officials (if requested) in conducting comprehensive training for election inspectors (Election Day precinct workers) prior to the primary and general elections in the first year of use.



TRAINING PLAN OVERVIEW

The Contractor's training plan overview addresses the following topics:

- ✓ The Goal
- ✓ How We Do It – Training the ES&S Way
- ✓ Our Long-Term Commitment
- ✓ Training Subjects and Course Details

THE GOAL

The primary goal is for the State of Michigan and its local election officials to be comfortable and well trained with ES&S' solutions so they can conduct trouble-free elections.

Our voting technology was engineered with more than 36 years of customers' experiences in mind. We understand, however, that needs and laws change and election officials know their elections better than anybody. That's why ES&S' training approach connects your election practices with our technology.

TRAINING THE ES&S WAY

We customize each training program to meet the unique needs of every partner. Our efficient and effective training approach is based upon a core curriculum we have developed during more than 36 years of implementing voting systems.

COMPREHENSIVE

The ES&S training approach anticipates the wide range of skills needed to carry out trouble-free elections. Our training program covers all of the bases from effective warehouse management, to the programming and operation of voting equipment, to reporting results using various methods, to audit and canvass completion.

CUSTOMIZED

The flexible ES&S training approach accommodates Michigan's specific laws, regulations and procedures. Our full-time ES&S trainers will work with our training coordinator and the assigned Project Manager on packaging and delivering a customized training program that best meets the needs of the State of Michigan and its local jurisdictions. We plan to train county and local officials at locations in each county suitable and agreeable to county officials. We will attempt to train smaller counties with less participants together, if there are possibilities for this and it is agreeable with county officials. The number of sessions will depend upon the size of the county and number of participants to train. ES&S also agrees to assist the counties with the training of election workers for the first election using their new ES&S election system.

RELEVANT

ES&S training courses are tailored to specific audiences, increasing the relevancy of every minute any election official spends in the classroom.

HANDS-ON

The ES&S training approach places a premium on real-world experience. We use extensive hands-on instruction to simulate the election process, as much as possible.

OUR LONG-TERM COMMITMENT

With ES&S, training is not a one-time event. We offer a long-term commitment to you and your election personnel to ensure every Election Day is a success. User Groups will be established in Michigan, which will include refresher training on various topics.

TRAINING SUBJECTS AND COURSE DETAILS

Refer to the following course descriptions for more information on ES&S training subjects, course titles, descriptions, lengths, pre-requisites, audiences, and proposed schedule requested in requirements. The ES&S Project Team, upon project initiation, will work with the State, County and local jurisdictions to develop a detailed training schedule. The required number of training days in each county will vary, based on variables such as size, number of local jurisdictions, software requirements, etc.

The cost of training is built into the Contract pricing. ES&S will train State, County and Local jurisdiction staff on all aspects of the hardware components purchased. Electionware software training instruction to both county and local officials will be customized to the needs of each county or local jurisdiction. Course descriptions are as follows:



Course description		Course pre-requisite(s) and audience	
Electionware Course (Requirement 2.6 C In-Person Training, a through d, t and u)			
Course Length – 4 ½ Days			
This course of training will provide Election Personnel general knowledge of Electionware. The participant will be able to design ballots, program election hardware and produce general election reports for an election. Covered topics include the following modules within Election Systems & Software's Electionware System. The participant will gain the knowledge, skills, and abilities to perform basic system functions and the following: • Define - Build, maintain and store all election-related information (i.e., precincts, districts, offices, candidates, referenda) in one database. • Design - Create an election ballot in both electronic and paper images. • Deliver - Program the election tabulation hardware with election-specific information. • Results - Generate and display customized election reports in paper or electronic formats, as well as view and manage ballot images captured from ES&S tabulation hardware. • Manage - Administer user account and security access for the Electionware software. • Perform troubleshooting procedures, including how and when to place service calls.		Pre-Requisite(s) • None Audience – • County Coding staff Number of Participants • 1 - 10	

Course description		Course pre-requisite(s) and audience	
DS200 Operations Course (Requirement 2.6 C In-Person Training, e through m, t and u)			
Course Length – 2 hours			
This course introduces Election Personnel to the DS200 Precinct Ballot Tabulator. Participants gain the knowledge, skills and abilities to operate ES&S' DS200 Precinct Ballot Tabulation system. Covered topics include: • In-depth overview of the DS200 Tabulator, including hardware components, ballot boxes, setup, security and battery maintenance. • Pre-election preparation requirements, including performing Logic & Accuracy (L&A) testing. • Election Day operations, including opening and closing the polls, scanning voted ballots, and transmission of election results. (This includes Write-In adjudication)		Pre-Requisite(s) • None Audience • State/County staff • Local staff Number of Participants • 1 - 20	

**Course description****Course pre-requisite(s) and audience**

- Perform troubleshooting procedures, including how and when to place service calls.

Course description**Course pre-requisite(s) and audience****DS450 Operations Course**

(Requirement 2.6 C In-Person Training, e through m, t and u)

Course Length – 1 Day

The DS450 Operations course gives a nut to bolts introduction to the AVCB Central Scanner/Tabulator.

Covered topics include:

- In-depth overview of the DS450 AVCB Central Scanner/Tabulator, including hardware components, ballot outstack trays, setup, and security.
- Pre-election preparation requirements, including performing Logic & Accuracy (L&A) testing.
- Election Day operations, including scanning voted ballots, and producing election results and reports. (This includes write-In adjudication)
- Perform troubleshooting procedures, including how and when to place service calls.

Pre-Requisite(s)

- None

Audience

- State/County staff
- Local staff

Number of Participants

- 1 - 10

2.7 RESERVED**2.8 Meetings, Project Updates and Reports**

The Contractor's State Project Manager and other identified Key Personnel must attend the following meetings:

- Initial contract kick-off meeting within 10 business days of Contract execution.
- Weekly update meetings after the initial kick-off meeting through the completion of the first planned implementation phase. Decisions on whether these updates take place via phone vs. in person meetings shall be at the discretion of the State.
- Monthly update meetings after the completion of the first implementation phase, through the life of the contract. Decisions on whether these updates take place via phone vs. in person meetings shall be at the discretion of the State.
- Written weekly updates, after the initial kick-off meeting through the completion of the first planned implementation phase. Written weekly updates will summarize work completed during the reporting period; planned work for the upcoming reporting period; issues affecting the timely and/or successful completion of planned milestones, along with the effect on planned timelines and resolution plan for each issue.
- Written monthly updates, after the completion of the first implementation phase, through the life of the contract. Written monthly updates will summarize work completed during the reporting period; planned work for the upcoming reporting period; issues affecting the timely and/or successful completion of planned milestones, along with the effect on planned timelines and resolution plan for each issue.
- Written updates after each Election Day, which identify and categorize service calls, equipment failures and resolution for all issues identified 14 calendar days prior to each election (up to and including Election Day), for each election in which the Contractor's voting system is used. These updates must be provided within 14 calendar days after each election.
- Annual reports prior to billing - during the extended service/maintenance period, a listing of all counties and jurisdictions and associated annual charges shall be provided to the State Program Manager at least 30 calendar days prior to the annual billing cycle.

The State may require other meetings and reports as it deems appropriate.

3. Staffing**3.1 Contractor Representatives**

The Contractor shall appoint a **State Project Manager**, specifically assigned to State of Michigan accounts, that will respond to State inquiries regarding the Contract Activities, answering questions related to ordering and delivery, ongoing service and maintenance, warranties, Election Day support, and other key requirements covered by the Contract (the "Contractor Representative"). The State Project Manager shall maintain a presence in the State of Michigan.

**State Project Manager**

Will Wesley

Phone: (954) 816-0042

Email: wil.wesley@essvote.com

The Contractor shall also appoint a designated **State Customer Service Manager**, who will maintain a presence in the State of Michigan and shall work with and support counties and local jurisdictions on an ongoing basis through the life of the Contract.

State Customer Service Manager

Kathy Dornan

Phone: (248) 361-1840

Email: kathryn.dornan@essvote.com

The Contractor shall provide written notice to the Contract Administrator at least 30 calendar days before removing or assigning a new Contractor Representative.

3.2 Customer Service Toll-Free Number

In addition to the requirements listed in **Section 1.6** (Service and Maintenance), the Contractor shall provide a Customer Service toll-free number for the State, counties and local jurisdictions to make contact with the Customer Service Support personnel. See other support requirements lists in **Section 1.6**.

In addition to the requirements listed in **Section 1.6** (Service and Maintenance), the Contractor shall provide a Technical Support toll-free number for the State, counties and local jurisdictions to make contact with the Contractor for technical support, repairs and maintenance.

The support line is available 24 hours per day and representatives monitor the line from 8 a.m. to 8 p.m. (Eastern Time), Monday through Friday. The line is also monitored for 24 hours on Election Day starting at 5 a.m. Eastern Time. During Federal and statewide election-critical periods (Election Day minus 2 weeks), Contractor augments their Help Desk staff and hours to ensure availability.

NOTE: A single toll-free number will be used for both overall Customer Service, Help Desk Support and Technical Support.

Customer Service, Help Desk Support and Technical Support

877-ESS-VOTE (877-377-8683)

3.3 Disclosure of Subcontractors

The Contractor does not intend to utilize subcontractors to fulfill the requirements of this Contract. However, if during the Contract term the Contractor utilizes any subcontractors, the Contractor must provide prior written notice of all of the following:

The legal business name; address; telephone number; a description of subcontractor's organization and the services it will provide; names and titles of all subcontractor staff that will be assigned to the Michigan contract, along with each individual's role and responsibilities; and information concerning subcontractor's ability to provide the Contract Activities.

The relationship of the subcontractor to the Contractor.

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.

A complete description of the subcontractor's prior experience that illustrates the subcontractor's relevant qualifications for completing the planned work they will be assigned under this Contract.

Any planned change to subcontractor staff must be communicated to the State Contract Administrator and Program manager at least 30 calendar days prior to the planned change. The State has the right of approval for any subcontractors provided.

Of the total Contract value, the price of the subcontractor's work.

3.4 Security

The Contractor will be subject to the following security procedures:

On a case-by-case basis, the State may investigate the Contractor's personnel before they may have access to State facilities, data and systems. The scope of the background check is at the discretion of the State and the results shall be used to determine Contractor personnel eligibility for working within State facilities and systems. The investigations shall include Michigan State Police Background checks (ICHAT) and may include the National Crime Information Center (NCIC) fingerprints. Proposed Contractor personnel may be required to complete and submit an RI-8 Fingerprint Card for the NCIC Fingerprint Check. Any request for background checks shall be initiated by the State and shall be reasonably related to the type of work requested.

All Contractor personnel shall also be expected to comply with the State's security and acceptable use policies for State IT equipment and resources. Furthermore, Contractor personnel shall be expected to agree to the State's security and acceptable use policies before the Contractor personnel shall be accepted as a resource to perform the work for the State. It is expected the Contractor shall present these documents to the prospective employee before the Contractor presents the individual to the State as



a proposed resource. Contractor staff shall be expected to comply with all physical security procedures in place within the facilities where they are working.

The Contractor's staff may be required to make deliveries to or enter State, county and local jurisdiction facilities. The Contractor must: (a) ensure the security of State, county and local jurisdiction facilities, (b) use ID badges and shirts identifying Contractor's employees, etc., (c) performs background checks through OneSource, and (d) the background checks are in accordance with applicable laws.

4. Pricing

4.1 Price Term

Refer to the Pricing Matrix included in **Schedule C for all pricing**. Prices listed in Schedule C are fixed for the contract term, and represent the maximum prices per item. Notwithstanding the foregoing, the Contractor is authorized to negotiate pricing with individual counties that are lower than the prices listed in Schedule C. Any and all lower negotiated prices must be communicated to the Program Manager immediately as they are finalized.

4.2 Price Changes

Aside from negotiations as outlined in Section 4.1 Price Term, price changes may only be considered after the expiration of the initial service/maintenance period (acquisition year + 4 years); and **only for component replacement/additional parts** (applicable to Cost Table 4 only – see **Schedule C**.) 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 calendar 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.

5. Ordering

5.1 Authorizing Document

The appropriate authorizing document for the Contract will be a written Purchase Order, which will be initiated at the State level for each county for each planned purchase period. All orders are subject to the State's contract terms.

Initial purchase orders will be placed by State purchasing officials. Counties and local jurisdiction election officials (county, city and township clerks) will be eligible to purchase additional voting systems and voting system components, over and above what is included in the State-issued purchase order at the established Contract prices and terms. Refer to **Contract Terms, Section 14 Extended Purchasing Program**. Also, refer to Section 7.1 Acceptance, Inspection and Testing "Counties will work with the State to finalize the list of jurisdictions that will accept delivery and implement the new voting system for each planned purchase phase. The State will initiate each county-based Purchase Order (PO) for each purchase phase based on this plan."

The State will generate each Purchase Order only after a finalized funding plan has been established for each county and local jurisdiction in the county; after a Grant Agreement has been executed with the county and each local jurisdiction which specifies ownership and payment obligations for the county and each local jurisdiction; and the State has received payment from the county and each local jurisdiction for their individual portions of the county/local funding plan.

As an alternative to counties and local jurisdictions making direct payments to the State for the local funding component, the Contractor may execute an agreed upon payment plan between the Contractor, county, and local jurisdictions within the county. Any separate agreements of this type must be transmitted to the State Program Manager prior to issuance of the Purchase Order.

Upon issuance of each State-issued Purchase Order on behalf of the county, the Contractor will work with each county to finalize each jurisdiction's delivery plan, including timeframes and locations.

5.2 Order Verification

The Contractor must have internal controls to verify abnormal or excessive orders and to ensure that only authorized individuals place orders.

5.3 Minimum Order

There is no minimum order requirement.

6. Delivery

6.1 Delivery Programs



The Contractor will use the following transportation methods in delivery of the Contract Activities: For the initial shipment of large quantities, Contractor will use a third party carrier who will supply 53' semi tractor-trailers that will hold 24 pallets. Following the initial installation, Contractor will use Less Than Truck Load (LTL) shipping for shipments smaller than a truck load, approximately 4 to 8 pallets. Smaller items such as media and paper rolls will be shipped via UPS. The mode of shipping ranges from Next Day Air to ground service. This would be determined based on the needs of the State, County and local jurisdictions.

Item	Quantity/Pallet	Pallet Dimensions	Truckload Quantity
DS200	28	40 x 48 x 69	672 each
ExpressVote	28	40 x 48 x 74	672 each
DS450	1	48 x 32 x 45 1/2	
DS200 Ballot Box			
Lower Bin	5	31 x 29 x 84	330 each
Carry Case	16	40 x 50 x 78	384 each
Auxiliary Bin	80	40 x 52 x 50	1,920 each

Note: The quantities listed are what could be loaded on a semi if the total quantities were shipped to one location.

6.2 Packaging and Palletizing

Packaging must be optimized to permit the lowest freight rate. Shipments must be palletized whenever possible using manufacturer's standard 4-way shipping pallets.

7. Acceptance

7.1 Acceptance, Inspection and Testing

Counties will work with the State to finalize the list of jurisdictions that will accept delivery and implement the new voting system for each planned purchase phase. The State will initiate each county-based Purchase Order (PO) for each purchase phase based on this plan.

Upon issuance of each State-issued PO on behalf of the county, the Contractor will work with each county to finalize each jurisdiction's delivery plan, including timeframes and locations.

With respect to delivery and installation of EMS, the Contractor shall provide an EMS delivery/installation plan that allows for EMS software installation to be handled by the counties and local jurisdictions. If such an arrangement is proposed and mutually agreed upon, Contractor must provide detailed software installation instructions to counties and local jurisdictions at the time of EMS delivery. In addition, Contractor must provide technical phone support to assist counties and local jurisdictions with software installation.

The Contractor's minimum system requirements, including the required/relevant Operating System, to ensure successful operation of the EMS, are listed as follows. Contractor provides these requirements for both the full EMS and the accumulation-only EMS options.

- Microsoft Windows 7 Professional 64-bit, SP-1 – Operating System for standalone and client workstations
- Microsoft Windows Server 2008 R2 – Operating System for EMS and results servers

For more information about the EMS configuration options, including operating system and hardware/software requirements, see **Schedule C, Pricing; Cost Table 5.**

Upon receipt of the systems at the county and local jurisdiction level, each jurisdiction will be responsible for testing and accepting their designated systems, based upon a checklist developed by the State. Each county and jurisdiction receiving voting systems, accessible voting system components and related EMS software will be required to complete a *Receipt/Acceptance* form and submit it to the State. Acceptance test criteria will include a logic/accuracy test (for tabulators/accessible devices) and a confirmation of successful installation of the approved version of EMS software (where applicable). If defects are uncovered during testing that result in an unsuccessful test, affected system component(s) will be rejected and Contractor must replace and re-test the component(s) within 10 business days. Once all voting systems and EMS software are tested and accepted, a completed *Receipt/Acceptance* form (developed by the State) will be completed and returned by each jurisdiction in the county for each purchase phase documenting successful completion of required testing; at which point the State will release payment on the State-issued county-based PO.



7.2 Final Acceptance

Final acceptance of each local county and jurisdiction order will be accomplished via the receipt/acceptance process described in **Section 7.1** and **Section 8e** in the Standard Contract Terms.

8. Invoice and Payment

8.1 Invoice Requirements

All invoices submitted to the State must include: (a) contract number; (b) Purchase Order number; (c) county name; (d) listing of all delivered components, itemized and listed by jurisdiction; (e) unit prices; (f) total price per item, per jurisdiction; (g) ship to address; (h) jurisdiction contact; (i) total price per jurisdiction; and (k) total price per county / Purchase Order (less any agreed upon payment arrangement made between the Contractor and the County).

Invoices must be forwarded to the State only after all equipment and components listed on the Purchase Order have been delivered. The State will release payment to the Contractor for the State portion of the invoice amount, upon the successful completion of acceptance testing and submission of completed Receipt/Acceptance forms from the county and each local jurisdiction listed on the Purchase Order. Note that the State portion of the invoice amount will equal 100% of the total invoice if the State has collected the local funding component up front.

8.2 Payment Methods

The State will make payment for Contract Activities as outlined in **Sections 5.1, 7.1 and in Section 9, Invoicing and Payment, in the Standard Contract Terms**. Payment will be made by Electronic Funds Transfer (EFT).

9. Additional Requirements

9.1 Environmental and Energy Efficient Products

The Contractor has identified the following energy efficient, bio-based, or otherwise environmental friendly products used in the products, including relevant third-party certification.

CONTRACTOR'S PRODUCTS

Contractor encourages and participates in sustainable practices by selecting environmental-friendly companies to manufacture our products. These companies strive for energy efficiency by measuring their greenhouse gas emissions and developing a reduction strategy, as well as including energy-efficient features in their products.

All of Contractor's products are Restrictions of Use of Hazardous Substances (RoHS) compliant. Contractor's manufacturer participates in several environmental sustainability and recycling programs to reduce our impact on the environment.

All packaging for Contractor's products is recyclable; however, Contractor's products are not shipped in material containing recycled content.

The ExpressVote system does not use ink, toner, or paper rolls and consumes 70 percent less paper than traditional ballots.

The DS200 internal power supply is certified to meet Energy Star/CEC Level VI compliancy. The ExpressVote internal power supply is certified to meet Energy Star V/ErP (Stage 2)/MEPS V compliancy. The DS450 power supply is not EnergyStar rated.

CONTRACTOR'S ORGANIZATION

Waste Minimization

Contractor supports environmental awareness by encouraging recycling and waste management in its business practices and operating procedures. This support includes a commitment to the purchase, use, and disposal of products and materials in a manner that will best utilize natural resources and minimize any negative impact on the earth's environment. Special recycling receptacles have been set up to promote the severance and collection of the following recyclable materials at Contractor's organization including computer paper, white high grade or bond paper, newspaper and aluminum cans.

Energy Efficiency

Contractor promotes energy efficiency in the use of electricity, natural gas and other energy sources. Contractor's IT policy requires that each employee shut down computers and laptops at the end of each day to conserve power. In addition, Contractor has urged their building property manager to install energy efficient lighting in all of the Contractor's building and offices in the Omaha corporate complex. Employees are urged to turn off banks of office light when natural sunlight and conditions permit.

Water Efficiency

Contractor promotes water efficiency by providing office water coolers or drinking fountains in every kitchen to reduce the use of individual bottled water.

9.2 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 identifies glass cleaner and isopropyl alcohol, which are used to clean the display screens and/or transport rollers that move paper ballots through each device, as hazardous chemicals associated with the election equipment that will be provided under this Contract.

9.3 Mercury Content

Pursuant to MCL 18.1261d, mercury-free products must be procured when possible. All products containing mercury must be labeled as containing mercury. A slight amount of mercury, 751 parts per million (less than the RoHS limit of 1,000 ppm, is contained in the cold cathode fluorescent lamps (CCFL) that backlight the liquid crystal displays (LCD) for the ExpressVote. The mercury-free alternative is an LED backlit display. The Contractor is evaluating LED backlit displays to replace CCFL-lit displays for both cost and environmental reasons. This evaluation, along with the necessary Engineering Change Order and subsequent federal and state certifications are expected to be available to the market in early 2017 with the release of ES&S Voting System (EVS) 6.2.0.0.

Note: All of Contractor's products are Restrictions of Use of Hazardous Substances (RoHS) compliant. The ExpressVote, DS200 and DS450 meets RoHS standards – 500 ppm out of 1000 ppm. Refer to **Mercury Information from LG and Testing Lab** provided by the LCD manufacturer: LG. Display Model No. LB150X02-TL01 @ 500ppm Hg.

9.4 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. The Contractor continues to work on the elimination of brominated flame retardants from our products. One remaining use is in some of our internal wiring, currently used with PVC insulator per UL 1007. Migration to a non-brominated standard, such as UL 3385, is underway and should be completed by first quarter 2017 as part of ES&S Voting System (EVS) 6.2.0.0.

9.5 License Agreement

The State and Counties that receive and use EMS software will be required to sign a software license agreement. Refer to Schedule B-Software License Agreement.

9.6 Key Personnel

The Contractor must appoint a **State Project Manager** and **State Customer Service Manager**. See other details in **Section 3.1**. These individuals shall 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.

State Project Manager

Will Wesley

Phone: (954) 816-0042

Email: wil.wesley@essvote.com

Wil Wesley, a Pontiac, Michigan resident, will respond to State inquiries and other key requirements covered by this Contract.

State Customer Service Manager

Kathy Dornan

Phone: (248) 361-1840

Email: kathryn.dornan@essvote.com

Kathy Dornan, a Byron Center, Michigan resident, will work with and support counties and local jurisdictions on an ongoing basis.

Contractor's Key Personnel must be available for meetings and updates as outlined in **Section 2.8**.

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. Also refer to **Section 10** in the Standard Contract Terms.

9.7 Non-Key Personnel

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

The Contractor has designated the following individuals as Non-Key Personnel:

Heather Doxon, State of Michigan Trainer

Dennis Rzepka, State of Michigan Field Service Technician

Dan Detampel, State of Michigan Field Service Technician

Charles Seets, State of Michigan Field Service Technician

Brian Stark, State of Michigan Field Service Technician

**9.8 Organizational Chart**

The Contractor has provided an overall organizational chart that details staff members, by name and title, as well as each member's area of responsibility. Contractor does not intend to utilize any subcontractors to fulfill the requirements of this Contract. Refer to Exhibit 4 to Schedule A – Organizational Chart.

9.9 Project Plan

The Contractor will carry out this project under the direction and control of the State Program Manager. Within 30 calendar days of the Effective Date, the Contractor will submit a project plan to the Program Manager for final approval. The plan must include: (a) the Contractor's organizational chart with names and titles of personnel assigned to the project, which must align with the staffing stated in accepted proposals; and (b) the project breakdown showing sub-projects, tasks, and resources required for each planned purchase phase.



Exhibit 1 to Schedule A

Federal Voting System Testing / Certification Matrix

Contractor has provided the following detailed information on currently certified voting systems and the voting system(s) for use in Michigan.

Definitions:

- EAC: United States Election Assistance Commission
- VSTL: Voting System Test Laboratory, accredited by the US Election Assistance Commission
- Currently Certified System(s) (Table A): These are your company's end-to-end voting system(s) for which EAC certification has already been obtained, if any.
- Michigan Proposed Voting System Configuration (Seeking Federal Certification) (Table B): This is the end-to-end base voting system proposed for use in Michigan, if the proposed Michigan system has not yet obtained EAC certification.
- Proposed Modification to Base Michigan Voting System Configuration (Table C): Voting system that allows for secure electronic transmission of unofficial Election Night results from the precincts to the local counties/jurisdictions and the State. If the base voting system proposed for Michigan (Table A or B) allows for electronic transmission, please state this in your response, and leave Table C blank.

A) Currently Certified System(s)

Does your company have an existing end-to-end voting system that has completed Federal testing and the U.S. Election Assistance Commission (EAC) certification process? For these purposes, an end-to-end voting system includes use of a paper ballot, tabulator, accessible voting device (for use by individuals with disabilities) and related Election Management System (EMS) software.

Yes ☒

No ☐

If you answered "Yes", complete the following table to provide information on your company's currently-certified system(s) that utilize a paper ballot – attach additional tables/pages if necessary. If you answered "No", proceed to Table B:

	Contractor Response
Product / System Name	Election Systems & Software Voting System 5.2.2.0
Model or Version #	EVS 5.2.2.0
Components – list all system components of the currently certified end-to-end voting system(s) as described above, including Software/Firmware version or Hardware version of each component. Add lines if necessary, or provide a separate attachment, clearly labeled 'CURRENTLY CERTIFIED VOTING SYSTEM COMPONENTS'	ElectionWare v. 4.7.1.1 Paper Ballot v 4.6.1.0 Event Log Service v. 1.5.5.0 Election Reporting Manager v. 8.12.1.1 Removable Media Service v. 1.4.5.0 ExpressVote Previewer v. 1.4.1.2 DS450 v. 3.0.0.0 DS850 v. 2.10.2.0 DS200 v. 2.12.2.0 ExpressVote Universal Voting Device (UVD) v. 1.4.1.2 ExpressVote Booth ExpressVote Kiosk DS200 Plastic Ballot Box DS200 Metal Ballot Box COTS Adobe Acrobat Standard v. XI COTS RMCOBOL v. 12.06 COTS Symantec Endpoint Protection 12.1.6 COTS Windows 7 SP1 COTS Windows Server 2008 R2 SP1
Name / Location of VSTL	National Technical Systems – Huntsville
Date VSTL testing completed	January 09, 2017
Date EAC certification issued	Pending – EAC review of Final Test Report due February 13, 2017
EAC Certification Number	TBD

*NOTE: If VSTL and/or EAC reports have been issued, also attach the report(s).

C) Proposed Modification to Base Michigan Voting System Configuration

Provide information on the proposed voting system for use in Michigan that provides for secure electronic transmission of unofficial Election Night results (if different from the proposed base Michigan voting system described in Table A or B):

	Contractor Response
Product / System Name	Election Systems & Software Voting System 5.3.2.0
Model or Version #	EVS 5.3.2.0
Components – list all system components of the proposed modification to the base Michigan voting system configuration, including Software/Firmware version or Hardware version of each component. Add lines if necessary, or provide a separate attachment, clearly labeled 'PROPOSED MODIFICATION TO BASE SYSTEM COMPONENTS'	ElectionWare v. 4.7.1.3 Paper Ballot v. 4.6.1.0 Event Log Service v. 1.5.5.0 Election Reporting Manager v. 8.12.1.2 Removable Media Service v. 1.4.5.0 Regional Results v. 1.1.0.0 ExpressVote Previewer v. 1.4.1.2 DS450 v. 3.0.0.0 DS850 v. 2.10.2.0 DS200 v. 2.13.3.0 ExpressVote Universal Voting Device (UVD) v. 1.4.1.2 ExpressVote Booth ExpressVote Kiosk DS200 Plastic Ballot Box DS200 Metal Ballot Box COTS Adobe Acrobat Standard v. XI COTS RMCOBOL v. 12.06 COTS Symantec Endpoint Protection v. 12.1.6 COTS Cerberus FTP Server v 8.0.8 COTS IPSwitch WS_FTP 12 v. 12.5.1 COTS Kiwi Syslog Server v. 9.4.2 COTS Microsoft .NET 3.5 v. 3.5 COTS RJ11 landline modem (DS200 analog modem) COTS Rapid Port 4 USB Modem Bank COTS Windows 7 SP1 COTS Windows Server 2008 R2 SP1 COTS AT&T, Sprint, Verizon Modem (DS200 wireless modem) COTS AT&T, Sprint, Version Broadband modem (Region Results Transmission) COTS AT&T, Sprint, Verizon Hot Spot (Regional Results Transmission) COTS Cisco A5505, A5506X Firewall COTS Cisco AnyConnect Client Image V. 3.1.04063 COTS MicroSoft Excel Viewer v. 12.0.6129.1000
Name / Location of VSTL	National Technical Systems Huntsville
VSTL Testing Status*	Complete 1 OR 2 below: 1) VSTL testing completed: <u>January 13, 2017</u> Date 2) VSTL testing not yet complete:



	a) Date submitted or will be submitted to VSTL: _____ b) Estimated VSTL testing completion date: _____ This estimated date was determined / provided by: Vendor ☐ VSTL ☐ c) Current status (summarize, in detail, the proposed system's status with respect to VSTL testing):
Differences between proposed base Michigan voting system and the proposed modification to the base system – list, in detail, all substantive differences between the proposed BASE SYSTEM and proposed MODIFICATION TO BASE SYSTEM	EVS 5320 is a modification of the EVS 5220 that allows for the transmission of unofficial election results on election night via landline or wireless modeming from a precinct based DS200 and/or from regional collection sites to election central via the AT&T, Sprint, or Verizon network. ES&S Footnote: ES&S confirms that the only functional difference between the Base System (EVS 5.2.2.0.) and the Modified System (EVS 5.3.2.0.) is the addition of modem functionality to allow for electronic transmission of unofficial results. <i>See Final Certification documentation attached hereto.</i>

*NOTE: If VSTL report has been issued, also attach the report.



Exhibit 2 to Schedule A

Technical Requirements

See separate Excel spreadsheet document.



Exhibit 3 to Schedule A
Preventative Maintenance Checklists



DS200 PM Checklist

Contract # [ENTER HERE]

Serial #: _____ Firmware: _____ Date: _____

Jurisdiction: _____ County: _____ Technician: _____

Physical Inspection

Ensure printer paper roll is installed in printer and that there is a sufficient amount to complete PM.

Testing of Unit

- ☐ Connect A/C cord to wall power adapter. While the battery pack is charging, the rear LED, located next to the wall power adapter cord connector, will be amber in color and blink slowly. When the battery pack is fully charged, the LED will be a solid green.
- ☐ With the unit plugged in, raise the screen. The unit should boot-up automatically.
- ☐ Enter the Touch Screen Calibration by pressing **Close Polls** after boot-up.
- ☐ On the configuration printout, verify the:
Scanner Board: _____; PMB: _____; DS200 Firmware: _____
- ☐ Insert EQC thumb drive and follow EQC process on screen.
- ☐ Insert the thumb drive containing the BMW demo election into USB port B.
- ☐ Check date and time at the top of the display. Change as needed.
- ☐ Press **OPEN POLLS** to scan the BMW demo ballots.
- ☐ Ensure that the test ballots scan in all four orientations.
- ☐ Insert the 2 demo ballots to check the multi-sheet sensor (all 4 orientations). Two ballots should be rejected.
- ☐ Repeat the step above on battery power (all 4 orientations). Two ballots should be rejected.
- ☐ Test that units will accept ExpressVote ballots (all 4 orientations).
- ☐ With the unit back on A/C power, press and hold **CLOSE POLLS** for two seconds to close the polls.
- ☐ Verify that the precinct report printout should read 8 ballots cast.
- ☐ Check modem operation.
- ☐ Press **Shutdown** to turn off the unit.
- ☐ Clean top and bottom CIS's

[Type text]



DS450 PM Checklist



Doc#: 450_PMChklist_revA
Contract # [ENTER HERE]

Date: _____
Serial Number: DS45 _____

Jurisdiction: _____
County: _____
Machine ID: _____

☐ Check Reverse Belts/Gap	☐ Check Date and Time
☐ Check Output/Input Tray screws	☐ Check Thresholds 200/150
☐ Clean/Check Deflector guides	☐ Check input/out tray heights
☐ Clean/Check Transport & Rollers	☐ Check oval thickness ballot
☐ Clean/Check 3 cooling fans	
☐ Check safety covers for possible ballot catching points	Calibration needed ____ Yes ____ No
☐ Check Triple rollers	☐ Check multisheet/ Watch light on board
☐ Check all cable connections	☐ Process Test Batches/Test Deck
☐ Check CIS cables for kinks	
☐ Check Drive belt tensions	
☐ Check all set screws on pulleys	
☐ Check Pick and Output trays sensor arms for free movement	
☐ Check all USB ports	
☐ Check Serial number	

- ☐ Verify firmware - CF/Boards ----> Listed Below

CAMERA:

INTERFACE: _____

LIBRARY: _____

FIRMWARE: _____

CONTROLLER: _____

OUTPUT TRAY: _____

INPUT TRAY: _____

DETECTORS BANK 1: _____

Notes/Failure Code: _____

MAIN MOTOR: _____

SOLENOIDS: _____

IMPRINTER: _____

DETECTORS BANK 2: _____

Inspector: _____



ExpressVote PM Checklist

Contract # [ENTER HERE]

Inspector: _____
 Date: _____
 Serial #: _____
 Jurisdiction: _____

County: _____
 Firmware: _____
 Machine ID: _____

Visual Inspection:

- ☐ Inspect physical structure of unit for problems and that all parts are included

Maintenance Requirements:

- ☐ Clean CIS
- ☐ Clean Print Head
- ☐ Check and clean all rollers
- ☐ Check that all cable connections are secure and battery is connected and secure

Official Mode

- ☐ Calibrate touch screen if necessary
- ☐ Confirm firmware version
- ☐ Verify battery status/strength/charge level
- ☐ Set date/time/time zone/DST in *System Maintenance* menu and reboot (verify changes take effect)
- ☐ Verify that the Calibration Required column has all green bars with NO in them (if not, recalibrate)
- ☐ Insert USB stick containing the EQC data and enter code when prompted
- ☐ Insert USB stick containing sample Election Data and enter code when prompted.
- ☐ Verify all USB ports are functional

Voter Mode

- ☐ Plug in audio headset and listen for prompts
- ☐ Plug in keypad and verify all buttons emit a beep when pressed
- ☐ Insert a ballot activation card and perform 8 vote tests ensuring audio and all keypad buttons are operational
- ☐ Review printed card for complete, dark print
- ☐ Reinsert voted card and review summary to confirm scanner is working properly
- ☐ Attach printed paper records from ExpressVote to checklist

Notes -



Doc#: 850_PMChklist_revC

DS850 PM Checklist

Serial Number: DS85

Date

Owner

☐ Check Reverse Belts/Gap	☐ Check Date and Time
☐ Check Output/Input Tray screws	☐ Check Thresholds 200/120
☐ Clean/Check Deflector guides	☐ Check input/out tray heights
☐ Clean/Check Transport & Rollers	☐ Check oval thickness ballot
☐ Clean/Check 4 cooling fans	Calibration needed ____ Yes ____ No
☐ Check safety covers for possible ballot catching points	☐ Check multisheet/ Watch light on board
☐ Check Read head gap	☐ Run Test Deck
☐ Check Triple rollers	☐ Check Image Quality with Oval Ballot
☐ Check gas strut/ Replaced ____ Yes ____ No	
☐ Check all cable connections	
☐ Check camera cables for kinks	
☐ Check Drive belt tensions	
☐ Check all set screws on pulleys	
☐ Check Clutch Mechanism	
☐ Hand move ballot through transport	
☐ Check Pick and Output trays sensor arms for free movement	
☐ Check all USB ports	
☐ Check Serial number	
☐ Verify firmware - CF/Boards ----> Listed Below	

CAMERA:

INTERFACE: _____

LIBRARY: _____

FIRMWARE: _____

CONTROLLER: _____

OUTPUT TRAY: _____

INPUT TRAY: _____

MAIN MOTOR: _____

SOLENOIDS: _____

IMPRINTER: _____

DETECTORS BANK 1: _____

DETECTORS BANK 2: _____

Notes/Failure Code:

Inspector:_____



Exhibit 4 to Schedule A

Organizational Chart

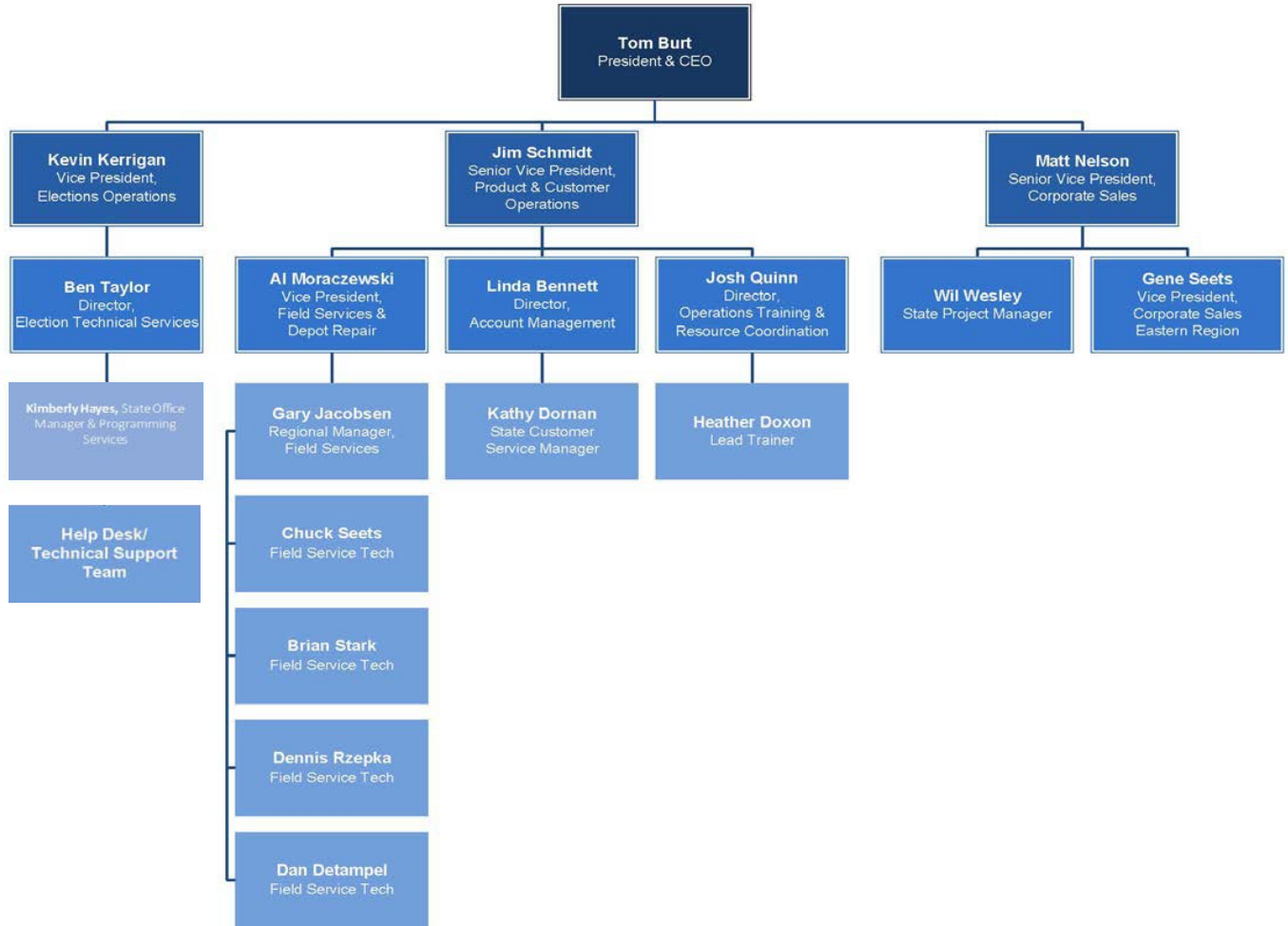




**Exhibit 5 to Schedule A
Recommended Infrastructure/Transmission Network
for Upload of Unofficial Results on Election Night**

STEP-BY STEP INSTALLATION INSTRUCTIONS

STANDALONE WORKSTATION

1. Wipe Hard Drive
2. Install and Update Windows OS
3. Harden the Standalone EMS Workstation
4. Install Virus Protection Software
5. Install COTS and Proprietary Applications
6. Secure the Standalone EMS Workstation
7. Create User Accounts
8. Secure the Administrator User Account
9. Harden the System BIOS

DATA COMMUNICATION SERVER

1. Wipe Hard Drive
2. Install and Update Windows Server OS
3. Harden the Data Communication Server
4. Install Virus Protection Software
5. Dialup Support
6. Install FTP Server Software
7. Install SysLog Server
8. Secure the Administrator User Account
9. Harden the System BIOS

EMS SERVER

1. Wipe Hard Drive
2. Install and Update Windows Server OS
3. Harden the EMS Server
4. Install Virus Protection Software
5. Install COTS and Proprietary Applications
6. Set up the Server/Share
7. Secure the EMS Server
8. Create the Share User Accounts
9. Secure the Administrator User Account
10. Harden the System BIOS

CLIENT WORKSTATION

1. Wipe Hard Drive
2. Install and Update Windows OS
3. Harden the EMS Client Workstation
4. Install Virus Protection Software
5. Install COTS and Proprietary Applications



6. Install SFTP Client Software
7. Secure the EMS Client Workstation
8. Create User Accounts
9. Secure the Administrator User Account
10. Harden the System BIOS

REGIONAL RESULTS

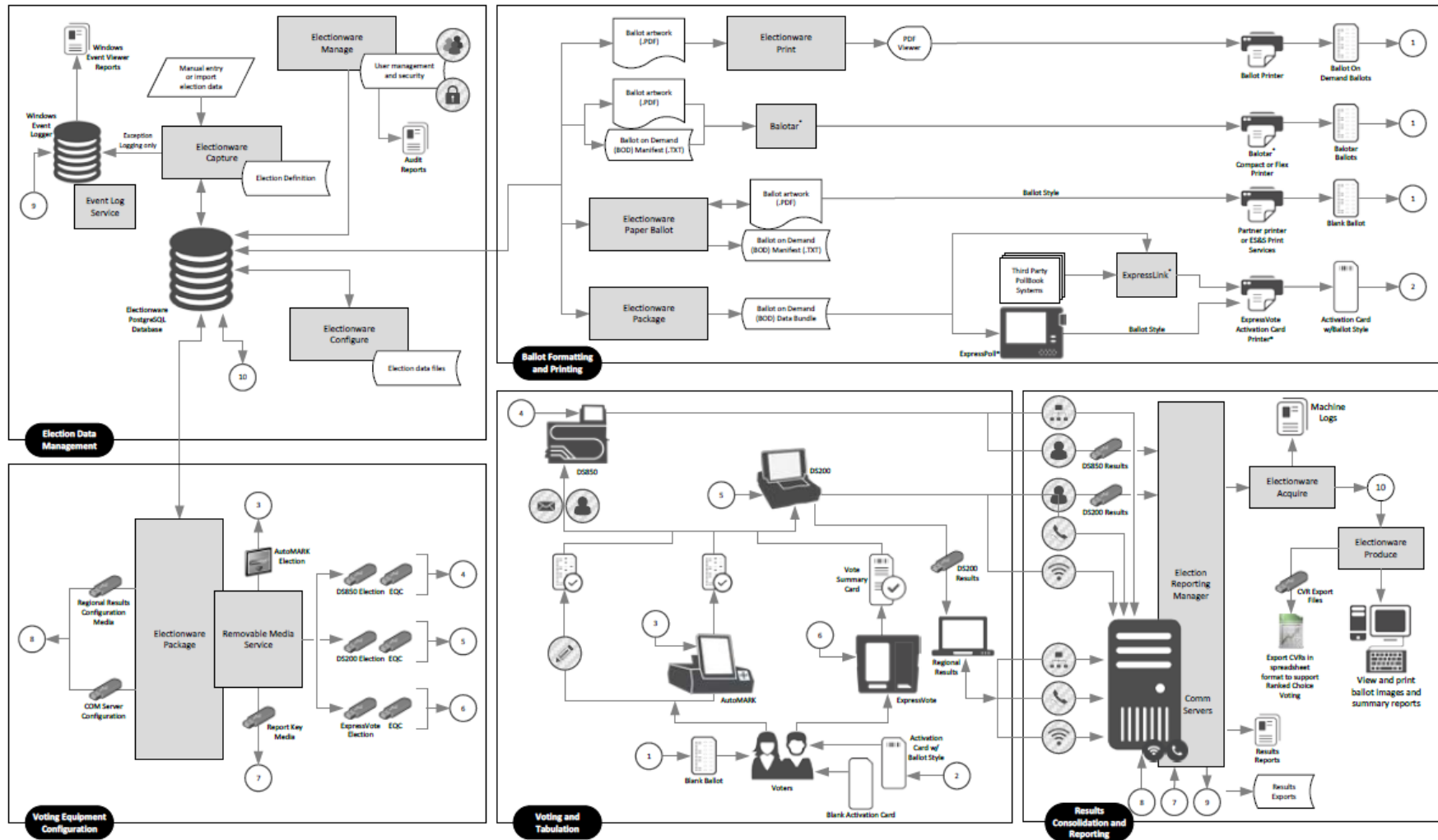
1. Wipe Hard Drive
2. Install and Update Windows OS
3. Harden Regional Results Workstation
4. Install Virus Protection Software
5. Install COTS and Proprietary Applications
6. Configure Regional Results Workstation for VPN
7. Secure Regional Results Workstation
8. Create Regional Results User Accounts
9. Secure the Administrator User Account
10. Harden the System BIOS

FIREWALL

1. Connect to the Firewall
2. Activate the Cisco ASA Device
3. Load Cisco ASA Device Software
4. Configure the Cisco ASA Device
5. Change the Default ASA Device Password

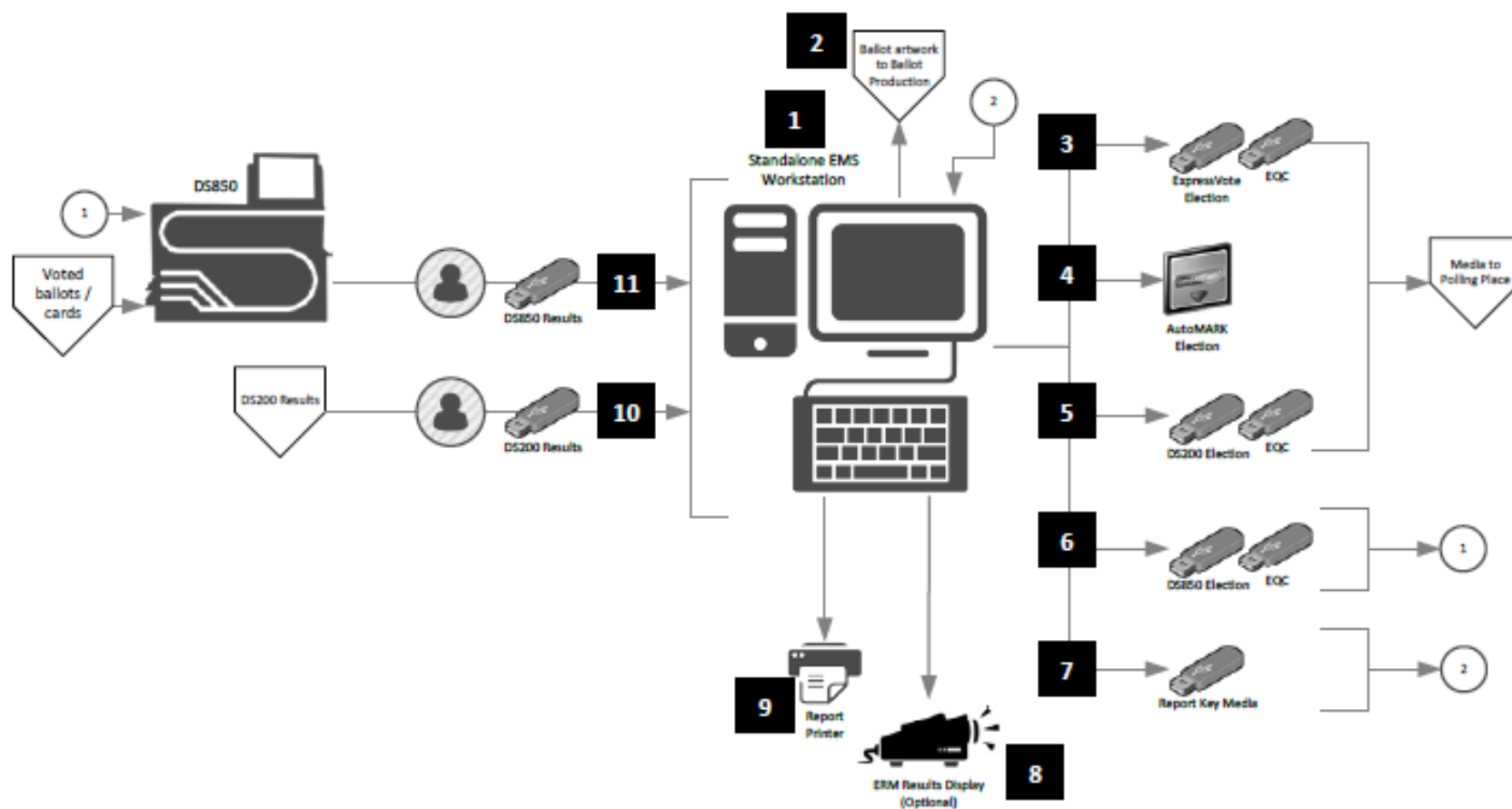


DIAGRAMS



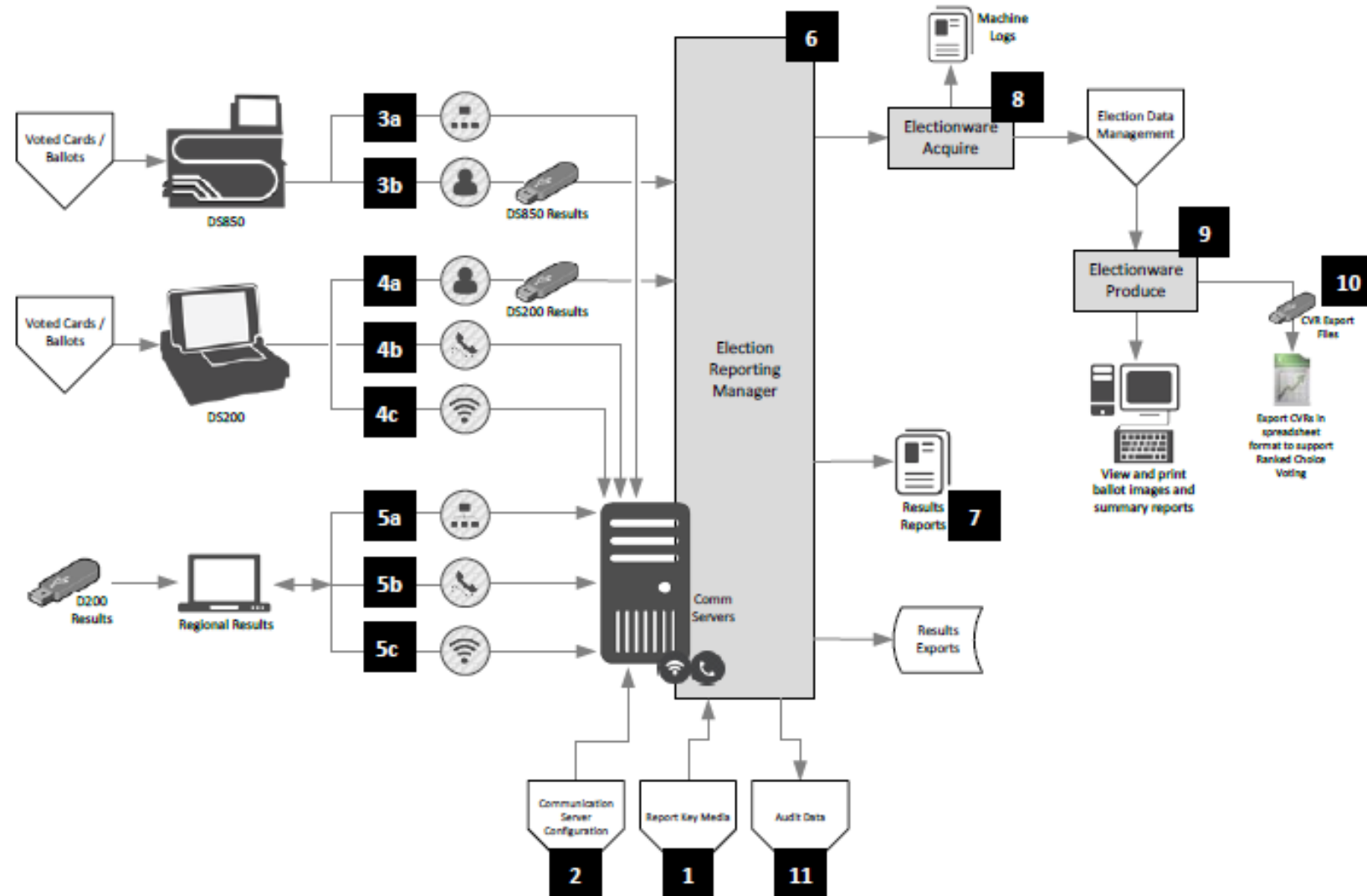


STANDALONE EMS WORKSTATION



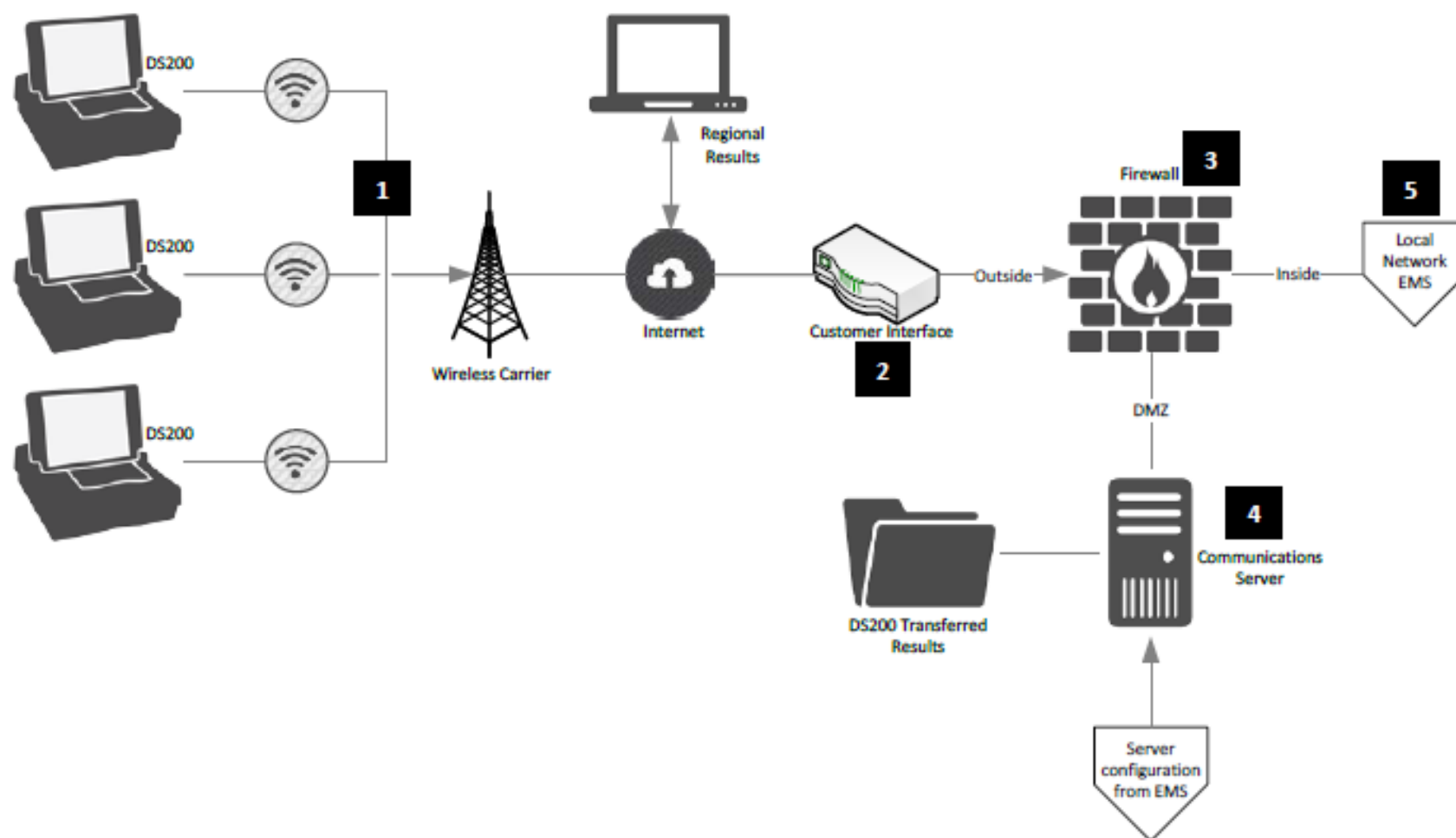


RESULTS CONSOLIDATION AND REPORTING



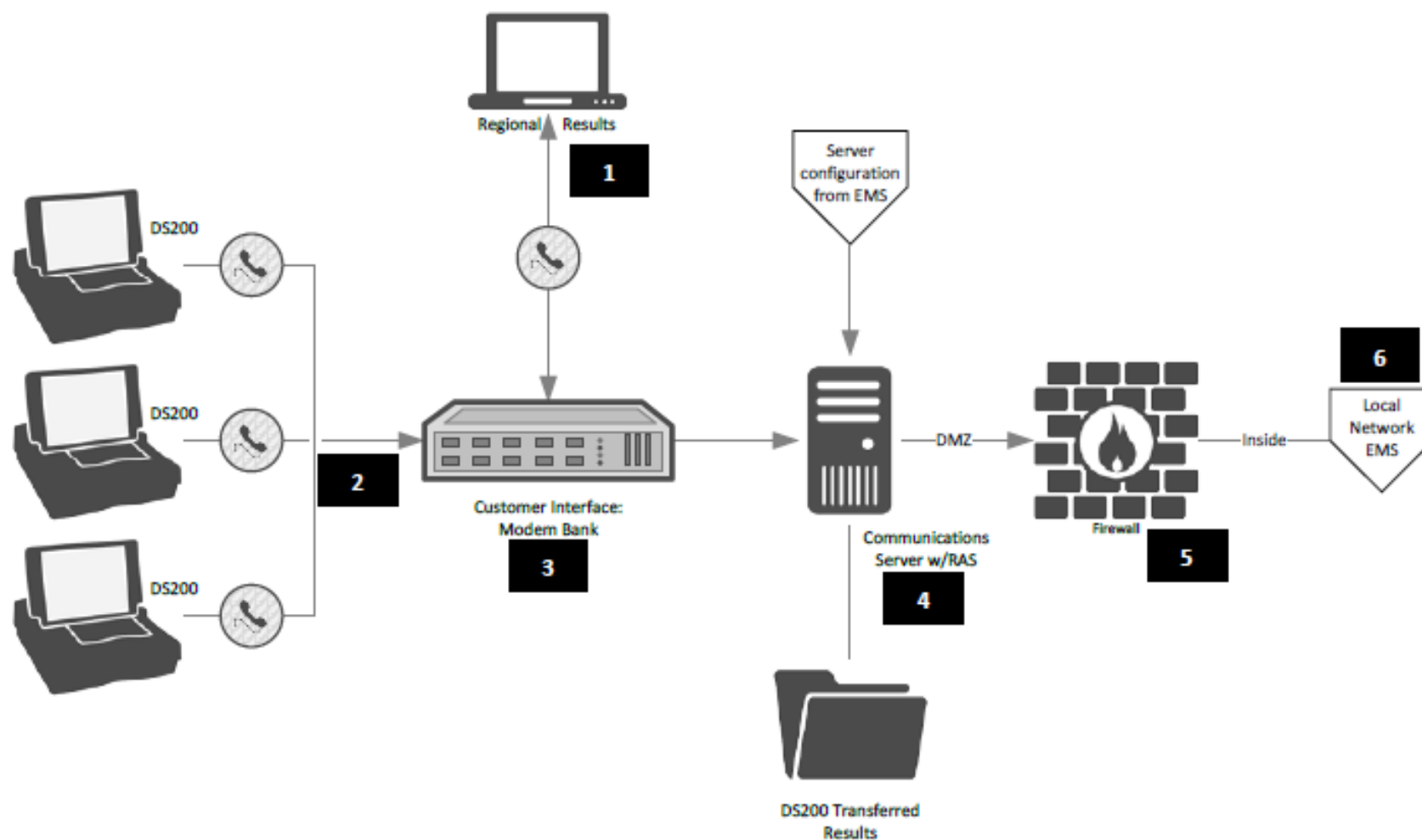


WIRELESS RESULTS NETWORK



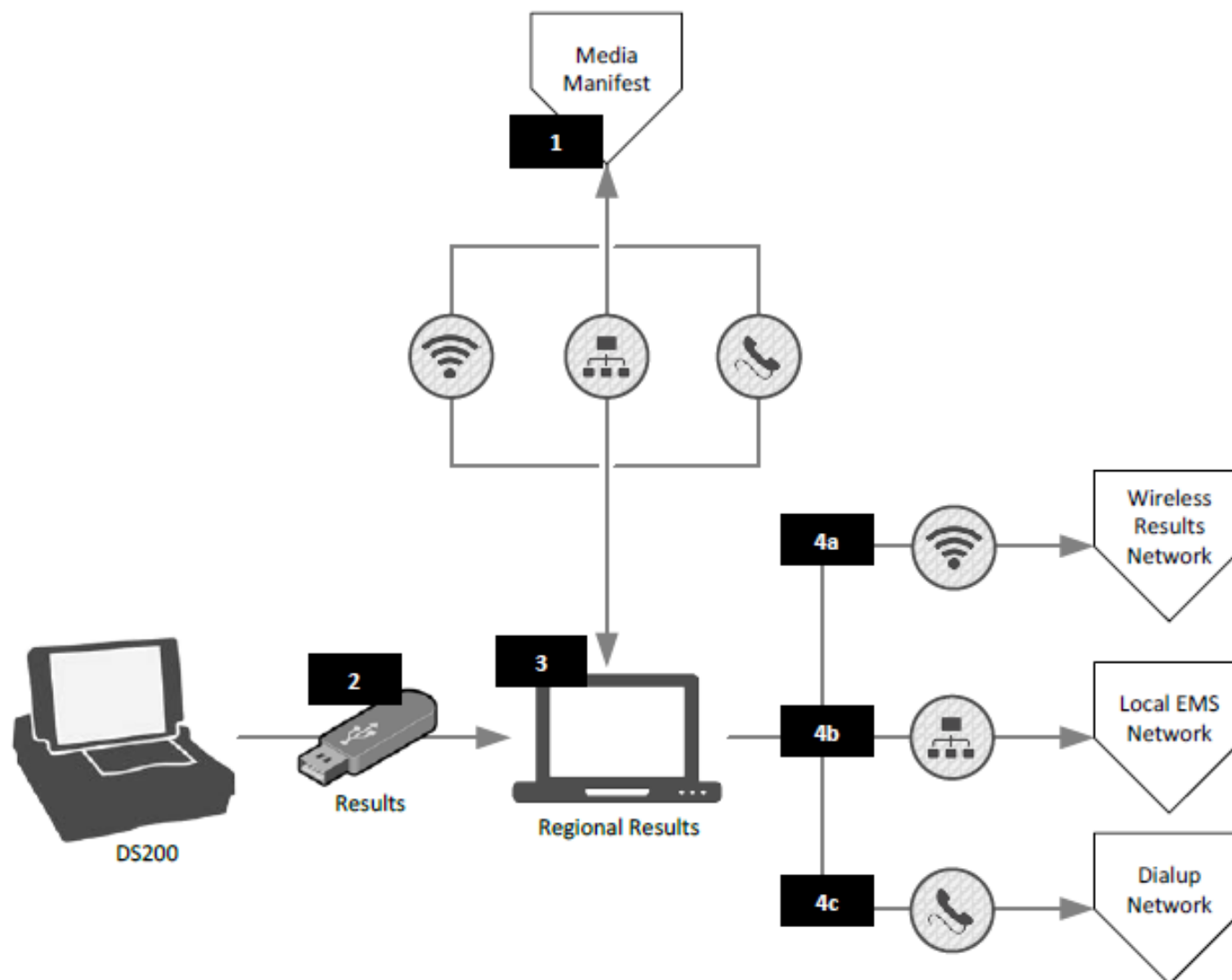


2.3.1.4 DIAL-UP RESULTS NETWORK





REGIONAL RESULTS NETWORK





REQUIRED COMPONENTS

Following are the required components for the transmission network for uploading unofficial results on election night.

COUNTY OPTION 1 – SOFTWARE FOR FULL EMS

- Election Reporting Manager
- Electionware
- Event Log Service (ELS)
- Removable Media Server (RMS)
- VAT Previewer
- ExpressVote Previewer
- PaperBallot

COUNTY OPTION 2 – SOFTWARE FOR ACCUMULATION ONLY

- Election Reporting Manager
- Event Log Service (ELS)

TRANSMISSION OPTIONS

- Dial-up
- LAN
- Wireless
- Regional Results/Transmission

BACKGROUND UTILITIES:

- Event Logging Service – Control user access and store detailed logs of actions performed in either program.
- Event Log Service (ELS)
- Removable Media Server (RMS)
- VAT Previewer
- ExpressVote Previewer

COMMERCIAL OFF-THE-SHELF (COTS) SOFTWARE:

- Microsoft Windows 7 Professional 64-bit, SP1 – Operating System for standalone and client workstations
- Microsoft Windows Server 2008 R2 SP1 – Operating System for EMS and results servers
- WSUS Microsoft Windows Offline Update Utility – Software updates (update utility)
- Cerberus SFT Server – Enterprise – File transfer server for precinct results network
- Microfocus RM/Cobol Runtime – COBOL runtime
- IPSwitch File Transfer WS_FTP Professional – File transfer client software for precinct or local results network (EMS Client)
- Kiwi Syslog Server - Receives, logs and displays system messages.
- Cisco A5505 Firewall Software (current version is 8.4.5, an ECO is currently in place to have this upgraded to 8.4.7(30) – Firewall



- Adobe Acrobat Standard
- Symantec Endpoint Protection
- AnyConnect Client Image ASA 5505 utility software

HARDWARE FOR BOTH COUNTY OPTIONS

- DS450 central tabulator
- DS850 central tabulator
- DS200 precinct tabulator
- COTS RJ11 landline modem (DS200 analog modem)
- COTS Rapid Port 4 USB Modem Bank
- COTS AT&T, Sprint, Verizon Modem (DS200 wireless modem)
- COTS AT&T, Sprint, Verizon Broadband modem (Regional Results Transmission)
- COTS AT&T, Sprint, Verizon Hot Spot (Regional Results Transmission)
- Automark (BMD)
- ExpressVote (BMD)

ELECTION MANAGEMENT SYSTEM PC WORKSTATION REQUIREMENTS - MINIMUM CONFIGURATION

- Processor Dual Core (min.)
- RAM 4 GB (min.), 8 GB recommended
- Hard Disk 150 GB
- Keyboard
- Mouse
- Monitor 1280x800 min. resolution (min.)
- CD/DVD reader 16x(min.)
- USB Ports x2 USB 2.0 (min.)
- Report Printer Network Printer w/Printer Control Language (PCL) driver
- Ethernet Port Network port

ELECTION MANAGEMENT SYSTEM SERVER REQUIREMENTS - MINIMUM CONFIGURATION

- Processor Quad Core (min.)
- RAM 4 GB (min.)
- Hard Disk 320 GB (min.)
- Keyboard
- Mouse
- Monitor 1280x800 min. resolution (min.)
- CD/DVD reader 16x(min.)
- USB Ports x2 USB 2.0 (min.)
- Report Printer Network Printer w/Printer Control Language (PCL) driver
- Ethernet Port Network port
- Back-up power supply (Universal Power Supply) 865 Watts / 1500 VA output capacity



ADDITIONAL COMMERCIAL OFF-THE-SHELF (COTS) HARDWARE

- Network Switch 1 GB throughput required
- ASA 5505 Security Appliance 10 Network Security Device
- Rapidport/4 USB Modem Bank

SYSTEM UTILITIES PC REQUIREMENTS - MINIMUM CONFIGURATION

- Processor Dual Core (min.)
- RAM 4 GB (min.)
- Hard Disk 150 GB (min.)
- Keyboard
- Mouse
- Monitor 1280x800 min. resolution (min.)
- CD/DVD reader 16x(min.)
- USB Ports x2 USB 2.0 (min.)
- Report Printer Network Printer w/Printer Control Language (PCL) driver
- Ethernet Port Network port

Additional information on other considerations that counties should take into account when planning to implement such a system.

Following are the primary considerations:

- Customers should test for wireless coverage with the cellular company of their choice
- Regional Results has the option to utilize a VPN connection or not
- Determine a disaster recovery plan (i.e. level of redundancy)
- Identify the desired number of workstations to be utilized

See Schedule C, Pricing, Cost Table 5 Additional Options/Costs - EMS Network Configuration Options.



**Exhibit 6 to Schedule A
Michigan QVF Export File Format**

See separate document (83 pgs.)



Exhibit 7 to Schedule A

Sample Reports



ELECTIONWARE SAMPLE REPORTS

The following is a sample of the many reports Electionware offers.

TABLE VIEW

Note that besides the reports pictured here, users can create personalized reports with Electionware's powerful Table View tool. It allows for custom reporting of all pre-election elements such as precincts, district, contests, ballot styles and candidates. These table views can be exported to Excel spreadsheets and contain all election data attributes handled by the Capture module. Information in the Table View can be organized for viewing, sorted, and customized by changing the column headers. The lower half of the Table View screen also displays the relationship of various selected items.

Several table views can be open at the same time to coordinate data. For example, if you want to view the precinct table to compare the complete list of districts with the list of those associated to a specific precinct, this allows you to identify possible errors and correct them immediately.

Contests and Candidates Table

Find: Find Next Find Previous Highlight all Match case Export

Candidate Order	Last Name	First Name	Full Name	Party	Contest Title	Vote For	Candidate Type	Group N...	Additional Text 1	Rotate	Contest
1	Doe	John Frank	John Frank Doe	Republican	President of the United States	1	Standard	0			
1	Brode	Billy "Bill"	Billy "Bill" Brode	Democratic	President of the United States	1	Standard	0			
2	Hammer	Timothy	Timothy Hammer	Republican	President of the United States	1	Standard	0			
2	Maddley	Drew	Drew Maddley	Democratic	President of the United States	1	Standard	0			
3	Williams	Tina L.	Tina L. Williams	Republican	President of the United States	1	Standard	0			
3	McNeal	Martha Mae	Martha Mae McNeal	Democratic	President of the United States	1	Standard	0			
4			Write-in	Republican	President of the United States	1	Write-in	0			
4			Write-in	Democratic	President of the United States	1	Write-in	0			
1	Ramirez	Jose J.	Jose J. Ramirez	Republican	U.S. Senator	1	Standard	0			
1	Bird	Frances	Frances Bird	Democratic	U.S. Senator	1	Standard	0			
2	Robertson	Donald J.	Donald J. Robertson	Republican	U.S. Senator	1	Standard	0			
2	Ramirez	Sofia	Sofia Ramirez	Democratic	U.S. Senator	1	Standard	0			
3	Webber	Tatyana	Tatyana Webber	Republican	U.S. Senator	1	Standard	0			

Relationship of the Selected Item Above

Ballot Styles Precincts/Splits

Find: Find Next Find Previous Highlight all Match case Export

Precinct/Split Order	Precinct ID	Split ID	Precinct/Split Name	Precinct Order	Language Group	Total Registered Voters	Alternate ID 1	Alternate ...	Additional ...	Additional Text 2
1	0001	00	001-001	1	All Languages	600				
1	0002	00	002-001	2	All Languages	90				
1	0003	00	003-001	3	All Languages	1320				
1	0004	00	004-001	4	All Languages	60				
1	0005	00	005-001	5	All Languages	180				
1	0006	00	006-001	6	All Languages	930				
1	0007	00	007-001	7	All Languages	140				
1	0010	01	Provisional_Ballot_Spl...	10	All Languages	0				

Top: Candidate Table View from within the software

Bottom: Candidate Table View when exported



DEFINE: CAPTURE REPORTS SAMPLES

PRECINCT REPORTS

Precincts by District

Election_ABC

August 27, 2014

Electionware County, Electionware State

Precinct ID	Precinct Name
<ElectionWide> (<ElectionWide1>)	
Total Precincts: 9	
0001	Precinct001
0002 - 01	Precinct002 SPLIT 2
0002 - 02	Precinct002 SPLIT 3
0003	Precinct003
0004 - 01	Precinct004 SPLIT 1
0004 - 02	Precinct004 SPLIT 2
0006	PrecinctXYZ
0007 - 01	PrecinctABC SPLIT 1
0007 - 02	PrecinctABC SPLIT 2

Total Reporting Precincts: 6

District 1 (DistrictTypeA)	
Total Precincts: 3	
0001	Precinct001
0002 - 01	Precinct002 SPLIT 2
0002 - 02	Precinct002 SPLIT 3

Total Reporting Precincts: 2

Precincts by District Report



Report: Precincts By Language Groups

Precincts By Language Groups
AnyCounty General Election
June 22, 2011
ElectionWare County, ElectionWare State

Precinct Name	Total Split Precincts: 5
All Languages (English)	
ANYCITY	
ANYTOWN	
ANYVILLAGE ANYVILLAGE 1	
ANYVILLAGE ANYVILLAGE 2	
ANYVILLAGE ANYVILLAGE 3	

Total Language Groups: 1
Total Languages: 1

Precincts by Language Group Report

DISTRICT REPORTS

Report: Districts By Precinct

Districts By Precinct
AnyCounty General Election
June 22, 2011
ElectionWare County, ElectionWare State

District ID	District Name	District Type	Total Districts: 1
0001 ANYCITY			
MUN001	MUNICIPAL	MUNICIPAL	
0002 ANYTOWN			Total Districts: 2
MUN001	MUNICIPAL	MUNICIPAL	
SCL001	ANY CONSOLIDATED SCHOOL DISTRICT	SCHOOL	
0003 - 01 ANYVILLAGE ANYVILLAGE 1			Total Districts: 1
MUN001	MUNICIPAL	MUNICIPAL	

Districts by Precinct Report



CONTEST REPORTS

Report: Headings

AnyCounty General Election
June 22, 2011

ElectionWare County, ElectionWare State

Heading	Contest	Total Contests
FEDERAL	FOR PRESIDENT FOR U.S. SENATE	2
STATE	FOR GOVERNOR	1
COUNTY		1

Contest Reports by Headings Report

Report: Rotations

AnyCounty Primary
June 3, 2013

ElectionWare County, ElectionWare State

Rotation #	Party	Candidate Name	Precincts	Total Rotations
1	GOVERNOR AND LT. GOVERNOR	NTYNTY V:1 T:4 R:No Rotation		1
1	REP	REP WILLIAM SULLIVAN	0001 0002 0003-01 0003-02	
	DEM	DEM STEPHEN MASSIMILIAN		
	CON	CON DOUGLAS STONE		
	LIB	LIB ANNE NEET		
	SWK	SWK FRANK L. MATTHEWS		
	SLB	SLB ROBERT MARSH		
	LAB	LAB CHRISTOPHER R. RICHARDSON		
	COM	COM THOMAS REISS		
	COU	COU WILLIAM MALICKI		
	FRE	FRE WILLIAM RHODES		

Contest Reports by Rotations Report



POLL PLACE REPORTS

Report: Poll Place Summary

AnyCounty Election Template
May 23, 2013

ElectionWare County, ElectionWare State

Poll Place ID	Poll Place Name
Election day Poll Places	
Totals: 17	
0001	Poll No. 1
0002	Poll No. 2
0003	Poll No. 3
0004	Poll No. 4
0005	Poll No. 5
0006	Poll No. 6

Poll Place Summary Report

Report: Poll Place Detail

AnyCounty Election Template
May 23, 2013

ElectionWare County, ElectionWare State

Poll Place ID	Poll Place Name	Precinct Name
Election day Poll Places		Totals: 17
0001	Poll No. 1	"AD: 40, ED: 001" 40 001 Split 1
		"AD: 40, ED: 001" 40 002 Split 2
		"AD: 40, ED: 001" 40 003 Split 3
		"AD: 40, ED: 001" 40 004 Split 4
0002	Poll No. 2	"AD: 47, ED: 001"
0003	Poll No. 3	"AD: 54, ED: 001"

Poll Place Detail Report



BALLOT STYLE REPORTS

Report: Precincts by Style

1 100%

Precincts by Ballot Style
 AnyCounty Election Template
 May 23, 2013 ElectionWare County, ElectionWare State

Ballot Set - NONPARTISAN

Precinct ID	Precinct Name	Total Reporting Precincts: 1
1 - "AD: 40, ED: 001" 40 001 Split 1		
0001 - 01	"AD: 40, ED: 001" 40 001 Split 1	
2 - "AD: 40, ED: 001" 40 002 Split 2		
0001 - 02	"AD: 40, ED: 001" 40 002 Split 2	
3 - "AD: 40, ED: 001" 40 003 Split 3		
0001 - 03	"AD: 40, ED: 001" 40 003 Split 3	

Precincts by Style Report

Report: Styles by Precinct

1 100%

Ballot Styles by Precinct
 AnyCounty General Election
 June 22, 2011 ElectionWare County, ElectionWare State

Ballot Style	Total Ballot Styles: 1
0001 ANYCITY	
1 - ANYCITY	
0002 ANYTOWN	
2 - ANYTOWN	
0003 - 01 ANYVILLAGE ANYVILLAGE 1	
3 - ANYVILLAGE ANYVILLAGE 1	
0003 - 02 ANYVILLAGE ANYVILLAGE 2	

Styles by Precinct Report



DATA VERIFICATION REPORTS

Report: Missing Language Translations

Missing Language Translations 09/21/2010 12:42PM

AnyCounty USA
AnyCounty USA General
July 4, 2009

Spanish Translations Missing: 93

Description	Field	Content
Ballot contest (District Code)	FOR GOVERNOR (NTY)	Contest Title FOR GOVERNOR Vote for Text VOTE FOR ONE Term Text FOUR Year Term
	FOR COUNTY CLERK (NTY)	Contest Title FOR COUNTY CLERK Vote for Text VOTE FOR ONE Term Text FOUR Year Term
	FOR CITY COUNCIL (001)	Contest Title FOR CITY COUNCIL Vote for Text VOTE FOR THREE Term Text FOUR Year Term

Missing Language Translations Report

Report: Field Lengths Exceeded

Field Lengths Exceeded

AnyCounty Election Template

May 23, 2013

ElectionWare County, ElectionWare State

Field Name	Input Value	Exceeds Limit By
Contest Short name	DEM [11112] Representative in Congress 10th Congressional District	26
	DEM [11194] Representative in Congress 13th Congressional District	26
	REP [11342] Representative in Congress 13th Congressional District	26
	DEM [11398] Member of Assembly Assembly District 40	11
	DEM [11398] Member of Assembly 47th Assembly District	13
Contest Long Name	DEM [11112] Representative in Congress 10th Congressional District	27
	DEM [11194] Representative in Congress 13th Congressional District	27

Field Lengths Exceeded Report



DEFINE: ELEMENTS LIBRARY REPORTS SAMPLES

Report: Missing ExpressVote System Translations

AnyCounty General
November 28, 2011

ElectionWare County, ElectionWare State

Prompt Text	Language	
Language: Spanish		Totals: 155
Insert Ballot Activation Card.	Spanish	
Please insert the Ballot Activation Card to begin the voting process. The ballot activation may take up to 30 seconds. The audio will be silent during this process.		
Display screen is on	Spanish	
Display screen is off	Spanish	
Exit now and your card will not be marked	Spanish	
Are you sure you want to exit?	Spanish	
Exit now and your card will not be marked. Press the left arrow key to return to voting. Press the right arrow key to exit and receive your unmarked card.	Spanish	

Missing ExpressVote System Translations Report

Report: Missing ExpressVote System Audio

AnyCounty Primart
July 24, 2013

ElectionWare County, ElectionWare State

Translation Text	Language	Filename
Language: English		Totals: 137
To begin the voting process, please insert the Activation Card in the correct orientation. Search for the diagonal cut mark on the card and orient the card so that the cut is in the top right corner. Then, insert the card into the machine slot which is located at the lower right. Activation of the ballot may take a few seconds. The audio will be silent during this process.	English	Prompt_1_2.wav
Display screen is on	English	Prompt_1_3.wav
Display screen is off	English	Prompt_1_4.wav
More	English	Prompt_1_6.wav

Missing ExpressVote System Audio Report



DESIGN: ACCESSIBLE BALLOT

Report: Missing Ballot Data

1 100%

Missing Ballot Data			03/12/2012 11:07AM	ElectionWare County AnyCounty Primary January 24, 2012
Language	Label Type	Text Label	Related Content	
Spanish	Office	Vote For Phrase	[11194] Representative in Congress	
Spanish	Candidate	Full Name	Channing Nelson	
Spanish	Heading	Heading Name	Candidates for Party Positions	
Chinese	Election Title	Election Title	AnyCounty Primary	
Chinese	Heading	Heading Name	Nonpartisan Ticket	
Chinese	Question	Verbiage	Referendum No. 1	
Chinese	Office	Title	[11342] Representative in Congress	
Chinese	Office	Title	[11398] Member of Assembly	
Chinese	Candidate	Response Name	No	
Spanish	Office	Vote For Phrase	[11342] Representative in Congress	

Missing Ballot Data Report

Report: Missing Ballot Audio Files

1 100%

Missing Ballot Audio Files			03/12/2012 11:10AM	ElectionWare County AnyCounty Primary January 24, 2012
Label Type	English Text	Language	Filename	Alt ID1
English				
Language Name	English	English	LangEnglish.wav	en
Election Title	AnyCounty Primary	English	ElecTitle_1.wav	
Election Authority	ElectionWare County	English	ElecAuth_1.wav	
Heading	Candidates for nomination for Public Office	English	Head_1_61_1.wav	1
Heading	Candidates for Party Positions	English	Head_1_62_1.wav	2
Heading	Nonpartisan Ticket	English	Head_1_63_1.wav	3
Contest Summary	[11112] Representative in Congress Vote for	English	Cont_1_65_0.wav	OF1

Missing Ballot Audio Files Report



DELIVER: CONFIGURE EQUIPMENT REPORTS

Report: DS200 Settings Report

1 100%

DS200 Settings [Election day]
 AnyCounty Primary
 January 24, 2012
 ElectionWare County, ElectionWare State

Option	Setting
Settings Last Changed	
User ID	admin
Date and Time	01/24/2012 10:20AM
Tabulation Settings	
Straight Party	Not Applicable
Election Type	Closed Primary
Polling Place Options	
Allow Re-opening of Polls	Selected
Ballot Handling Options Before Ballot Is Cast	
Undervoted Ballot	Query Voter Preference
Overvoted Ballot	Query Voter Preference
Blank Ballot	Query Voter Preference
Cross Over Voted Ballot	Query Voter Preference
Unreadable Marks on Ballot	Always Reject

DS200 Settings Report

Report: DS850 Settings Report

1 100%

DS850 Settings
 AnyCounty Primary
 July 25, 2013
 ElectionWare County, ElectionWare State

Option	Setting
Settings Last Changed	
User ID	admin
Date and Time	2013-07-25 12:48:06.02
Tabulation Settings	
Straight Party	Not Applicable
Election Type	Open Primary
Bin Options	
Top Bin Configuration	Not Processed
Middle Bin Configuration	Processed
Bottom Bin Configuration	Processed

DS850 Settings Report



Report: ExpressVote Settings Report

ExpressVote Settings
AnyCounty Primary
July 25, 2013
ElectionWare County, ElectionWare State

Option	Setting
Settings Last Changed	
User ID	admin
Date and Time	08/13/2013 10:23AM
Tabulation Settings	
Straight Party	Not Applicable
Election Type	Open Primary
Vote Session Properties	
Alert voter if all Contest choices have not been displayed	Selected
Alert voter of undervote condition	Selected
Force voter to view all Contest choices	Not Selected
Deselect Straight Party Candidates in Contest if manually re-voted	Not Selected
Audio Properties	
Non-Audio Election	Not Selected
Terminal Properties	
Use Party Graphics	None

ExpressVote Settings Report

Report: Jurisdiction Ballot Style Listing

Jurisdiction Ballot Style Listing
AnyCounty Primary
July 25, 2013
ElectionWare County, ElectionWare State

Precinct	Ballot Style [Sheet #]	Type	Seq	Split	District ID	District Name (Type)
0001 Poll One						
Precinct One	1 - Precinct One	01	0001	01	COUNTY	<ElectionWide> (<ElectionWide>)



Jurisdiction Ballot Style Listing Report

Report: Ballot Detail Listing Report

Ballot Detail Listing 08/13/2013 03:25PM

ElectionWare County
AnyCounty Primary
July 25, 2013

Note: You must hold the ballot in a portrait orientation to validate the row and column values in this report.

Ballot Style: 1 - Precinct One

Precinct ID	Precinct Name
0001	Precinct One

Order	Vote For	Term	Contest	Rotation	Candidate	Row	Col
1	1	2	BEST AUTOMOBILE MANUFACTURER	1	BMW	7	1
					MERCEDES	8	1
					GENERAL MOTORS	9	1
					HONDA	10	1
					FERRARI	11	1
					JAGUAR	12	1
					FORD	13	1
					VOLVO	14	1
					Write-In	15	1
2	2	2	BEST VOCAL ARTIST	1	FRANK SINATRA	18	1
					ELVIS	19	1

Ballot Detail Listing Report

DELIVER: PACKAGE REPORTS

Report: Media Creation Log Report

Media Creation Log Report
AnyCounty Primary
July 25, 2013

ElectionWare County, ElectionWare State

For Accessible Equipment the latest Data Version number is 1.

Election Media

Poll Place Name	Media ID	Data Version	Media Serial Number	Audio Enabled	Media Creation Date	User ID
N/A						

Total Media: 0

Some or all of the data for the report does not exist.

Media Creation Log Report



Report: Election Media by Poll Place

AnyCounty Election
August 20, 2012

ElectionWare County, ElectionWare State

Election Media

Poll Place Name	Media ID	Data Version	Media Serial Number	Audio Enabled	Media Creation Date
N/A					Total Media: 0

No Election Media data exists for this report.

Election Media by Poll Place Report

Report: Media Not Created

AnyCounty Primary
January 24, 2012

ElectionWare County, ElectionWare State

DS200 Election Media

Poll Place Name	Poll Place ID	Alternate ID
Poll No. 1	0001	POL0001
Poll No. 2	0002	POL0002
Poll No. 3	0003	POL0003
Poll No. 4	0004	POL0004
Poll No. 5	0005	POL0005
Poll No. 6	0006	POL0006
Poll No. 7	0007	POL0007
Poll No. 8	0008	POL0008
Poll No. 9	0009	POL0009
Poll No. 10	0010	POL0010

Media Not Created Report



RESULTS: ACQUIRE REPORTS

Media Status Report

10/03/2013 08:48AM

 ElectionWare County
 2GFLMIAM
 October 2, 2013

Media Loaded

Poll Place Name	Poll Place ID	Equipment Type	Media Serial Number	Media Load Time	ExpressVote Ballots	Total Ballots
PCT 101	54				36	72
		DS200	07A812130377	10/03/2013 07:56AM	18	36
		DS850	07A8121302FF	10/03/2013 07:56AM	18	36
ED PCT 971.0	1584				36	72
		DS850	0776174501A1	10/03/2013 07:56AM	18	36
		DS200	07B9181300BA	10/03/2013 08:26AM	18	36
PCT 100	1627				12	24
		DS200	07B9181300F9	10/03/2013 07:56AM	6	12
		DS850	07B918130091	10/03/2013 07:56AM	6	12
EARLY VOTING	584				48	96
		DS850	07A81213030F	10/03/2013 07:56AM	24	48
		DS200	07C317130701	10/03/2013 08:26AM	24	48

Total Poll Places: 4

Media Not Loaded

Poll Place Name	Poll Place ID	Equipment Type	Media Serial Number	Media Load Time	ExpressVote Ballots	Total Ballots

Media Status Report

ADMIN: SETUP REPORTS

Report: User Report

1 100%

User Report 03/01/2012 10:00AM

ElectionWare County
AnyCounty Primary
January 24, 2012

User Id	First Name	Last Name	Active	Created	Last Login
admin	ElectionWare	Administrator	true	01/24/2012 09:59AM	03/01/2012 09:05AM

User Report



Report: Admin Audit Events Report

1 100%

Admin Audit Events Report				ElectionWare County AnyCounty Primary January 24, 2012
Event	Description	Timestamp	User Id	Module
Verbose	Generating Report...	03/01/2012 10:02:52AM	admin	Setup
Info	Running report: Admin Audit Events Report	03/01/2012 10:02:52AM	admin	Setup
Verbose	Connecting...	03/01/2012 10:02:52AM	admin	Setup
Verbose	Done.	03/01/2012 10:00:29AM	admin	Setup
Verbose	Generating Report...	03/01/2012 10:00:28AM	admin	Setup
Info	Running report: User Report	03/01/2012 10:00:28AM	admin	Setup
Verbose	Connecting...	03/01/2012 10:00:28AM	admin	Setup
Info	Setup module activated.	03/01/2012 10:00:24AM	admin	Setup
Info	Election Opened: AnyCounty Primary	03/01/2012 09:21:22AM	admin	Home
Info	Home module activated.	03/01/2012 09:05:24AM	admin	Home

Admin Audit Events

Report: Election Audit Events Report

1 100%

Election Audit Events Report				ElectionWare County AnyCounty Primary January 24, 2012
Event	Description	Timestamp	User Id	Module
Info	Running report: Election Audit Events Report	03/01/2012 10:05:46AM	admin	Setup
Warning	User Response: No	03/01/2012 10:00:24AM	admin	Configure
Warning	There are pending changes. Do you want to save?	03/01/2012 10:00:22AM	admin	Configure
Info	Configure Equipment module activated.	03/01/2012 09:21:41AM	admin	Configure
Verbose	Open Election: Finding Election...	03/01/2012 09:21:22AM	admin	Home
Verbose	Open Election: Finding Jurisdiction...	03/01/2012 09:21:22AM	admin	Home
Verbose	Open Election: Finding Customer...	03/01/2012 09:21:22AM	admin	Home
Info	Election Opened: AnyCounty Primary	03/01/2012 09:21:21AM	admin	Home
Info	Election Closed: AnyCounty Primary	02/29/2012 04:21:43PM	admin	Element Library
Info	DS200 Modem Configuration successfully imported. Remember to thoroughly test the DS200 prior to your election in order to verify the modem	02/29/2012 01:21:33PM	admin	Element Library

Election Audit Events Report



BMW Future of Voting

Unofficial Results

Election Results - Summary Report

BEST AUTOMOBILE MANUFACTURER

Times Over Voted	3		
Times Under Voted	0		
Candidate	Votes	Vote%	Bar Graph
BMW	14	45.16%	
MERCEDES	9	29.03%	
GENERAL MOTORS	0	0.00%	
HONDA	0	0.00%	
JAGUAR	5	16.13%	
FORD	3	9.68%	
Write-in	0	0.00%	

BEST VOCAL ARTIST

Times Over Voted	6		
Times Under Voted	7		
Candidate	Votes	Vote%	Bar Graph
FRANK SINATRA	7	12.73%	
ELVIS	23	41.82%	
BUDDY HOLLY	8	14.55%	
BARRY WHITE	5	9.09%	
STEVIE RAY VAUGHAN	9	16.36%	
Write-in	3	5.45%	
Write-in	0	0.00%	

BEST ICE-CREAM FLAVOR

Times Over Voted	0		
Times Under Voted	0		
Candidate	Votes	Vote%	Bar Graph
CHOCOLATE	8	23.53%	
STRAWBERRY	16	47.06%	
VANILLA	4	11.76%	

Election Results Summary Report



Status	Ballots - Table View	Results Report
<pre> <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <Owner> <ReportTime>2013-11-21T09:55:29.244-08:00</ReportTime> <PartyMap> <Party partyBallotsCast="6" name="NONPARTISAN" abbrev="" id="1"/> <Party partyBallotsCast="4" name="REPUBLICAN PARTY" abbrev="" id="5"/> <Party partyBallotsCast="1" name="DEMOCRATIC PARTY" abbrev="" id="6"/> <Party partyBallotsCast="1" name="LIBERTARIAN PARTY" abbrev="" id="7"/> </PartyMap> <JurisdictionMap percentReported="0.0" reportingJurisdictions="1" totalJurisdictions="1"> <Jurisdiction precinctsReportedPercentage="0.0" precinctsReported="0" totalPrecincts="1" reportedPercentage="0.0" reportedRegistration="0" totalCastPercent age="0.0" totalRegistration="0" totalBallotsCast="12" typeld="2" title="Oconto" id="0"> <BStyle useForVoterCount="true" typeSeqSplit="01-0001-01" name="PRECINCT 1" refPtyld="1" id="122"/> <Precinct name="PRECINCT 1" regVoters="0" counted="true" castPercentage="0.0" id="8"> <PrecinctParty blanksCast="1" refBStyleld="122" castPercentage="0.0" ballotsCast="12" regVoters="0" partyld="1"/> </Precinct> </Jurisdiction> </JurisdictionMap> <Election precinctsReportedPercentage="0.0" precinctsReported="0" totalPrecincts="1" reportedPercentage="0.0" reportedRegistration="0" totalCastPercentage="0 .0" totalRegistration="0" totalBallotsCast="12" final="false" electionTitle="Demo Election" id="1001"> <ContestList> <Contest underVotes="0" overVotes="1" writeinVotes="0" castPercentage="0.0" ballotsCast="4" runoff="false" voteFor="1" typeCode="N" title="UNITED STAT ES SENATOR" stateWide="true" partyld="5" altld2="101133" id="31"> <Candidate recount="false" runoff="false" winner="true" partyld="5" name="REPUBLICAN CANDIDATE 1" pos="1" id="83"> <Votes refBStyleld="122" refPrecinctld="8">2</Votes> </Candidate> <Candidate recount="false" runoff="false" winner="false" partyld="5" name="REPUBLICAN CANDIDATE 2" pos="2" id="84"> <Votes refBStyleld="122" refPrecinctld="8">0</Votes> </Candidate> <Candidate recount="false" runoff="false" winner="false" partyld="5" name="Write-in" pos="3" id="32"> <Votes refBStyleld="122" refPrecinctld="8">1</Votes> </Candidate> </Contest> <Contest underVotes="0" overVotes="1" writeinVotes="0" castPercentage="0.0" ballotsCast="4" runoff="false" voteFor="1" typeCode="N" title="UNITED STAT ES REPRESENTATIVE IN CONGRESS" stateWide="true" partyld="5" altld2="1021223" id="34"> <Candidate recount="false" runoff="false" winner="false" partyld="5" name="REPUBLICAN CANDIDATE 1" pos="1" id="85"> <Votes refBStyleld="122" refPrecinctld="8">1</Votes> </Candidate> <Candidate recount="false" runoff="false" winner="false" partyld="5" name="REPUBLICAN CANDIDATE 2" pos="2" id="86"> <Votes refBStyleld="122" refPrecinctld="8">1</Votes> </Candidate> <Candidate recount="false" runoff="false" winner="true" partyld="5" name="Write-in" pos="3" id="35"> <Votes refBStyleld="122" refPrecinctld="8">1</Votes> </Candidate> </Contest> <Contest underVotes="0" overVotes="1" writeinVotes="0" castPercentage="0.0" ballotsCast="4" runoff="false" voteFor="1" typeCode="N" title="STATE SENA </pre>		
Show Report Save		

Elections Results/Exports

ERM SAMPLE REPORTS

The following ERM reports can be created and customized as needed:



PRECINCT REPORT		ANY COUNTY, US	UNOFFICIAL
RUN DATE: 04/06/09		GENERAL ELECTION	REPORT-EL30
RUN TIME: 03:50 PM		NOVEMBER 4, 2008	PAGE 0001-01
0001 PRECINCT 1			
REGISTERED VOTERS - TOTAL	.	.	VOTES PERCENT
BALLOTS CAST - TOTAL	.	.	10000
BALLOTS CAST - BLANK	.	.	8500
VOTER TURNOUT - TOTAL	.	.	0
VOTER TURNOUT - BLANK	.	.	85.00
Governor			
(VOTE FOR) 1			
GEORGE WASHINGTON (REP)	.	.	3500 35.11
THOMAS JEFFERSON (DEM)	.	.	2500 25.00
BEN FRANKLIN (CON)	.	.	500 5.00
JOHN ADAMS (LIB)	.	.	250 2.50
TEDDY ROOSEVELT (SNK)	.	.	150 1.50
FRANKLIN ROOSEVELT (SLB)	.	.	200 2.00
ABRAHAM LINCOLN (LAB)	.	.	1400 14.00
ULYSSES S. GRANT (COM)	.	.	200 2.00
ANDREW JACKSON (COU)	.	.	700 7.00
ROBERT E. LEE (FRE)	.	.	550 5.50
Write-In	.	.	20 .20
Total	.	.	9970
Over Votes	.	.	10
Under Votes	.	.	20

Sample ERM Precinct Results Report



PREC REPORT-GROUP DETAIL

ANY COUNTY, US
GENERAL ELECTION
NOVEMBER 4, 2009

RUN DATE: 04/06/09 04:25 PM

0001 PRECINCT 1

	TOTAL VOTES	%	Election Day	Absentee
REGISTERED VOTERS - TOTAL	10,000			
BALLOTS CAST - TOTAL	8,500		8,500	0
BALLOTS CAST - BLANK	0		0	0
VOTER TURNOUT - TOTAL		85.00		
VOTER TURNOUT - BLANK				
Governor				
(VOTE FOR) 1				
GEORGE WASHINGTON (REP)	3,600	35.19	3,500	100
THOMAS JEFFERSON (DEM)	2,550	24.93	2,500	50
BEN FRANKLIN (CON)	525	5.13	500	25
JOHN ADAMS (LIB)	250	2.44	250	0
TEDDY ROOSEVELT (SHK)	150	1.47	150	0
FRANKLIN ROOSEVELT (SLB)	200	1.96	200	0
ABRAHAM LINCOLN (LAB)	1,415	13.83	1,400	15
ULYSSES S. GRANT (COM)	220	2.15	200	20
ANDREW JACKSON (COU)	725	7.09	700	25
ROBERT E. LEE (FRE)	570	5.57	550	20
Write-In	25	.24	20	5
Total	10,230		9,970	260
Over Votes	10		10	0
Under Votes	20		20	0

Sample ERM Precinct Results Report with Group Detail



B.45 Page 1 of 1
 File Edit View Search

SUMMARY REPORT		ANY COUNTY GENERAL ELECTION NOVEMBER 4, 2008		UNOFFICIAL
RUN DATE: 04/07/09 10:17 AM				REPORT-EL45
		VOTES PERCENT		
PRECINCTS COUNTED (OF 2)		2	100.00	
REGISTERED VOTERS - TOTAL		10,000		
BALLOTS CAST - TOTAL		8,760		
BALLOTS CAST - BLANK		0		
VOTER TURNOUT - TOTAL			87.60	
VOTER TURNOUT - BLANK				
Governor				
(VOTE FOR) 1				
GEORGE WASHINGTON (REP)		3,600	35.19	
THOMAS JEFFERSON (DEM)		2,550	24.93	
ABRAHAM LINCOLN (LAB)		1,415	13.83	
ANDREW JACKSON (COU)		725	7.09	
ROBERT E. LEE (FRE)		570	5.57	
BEN FRANKLIN (CON)		525	5.13	
JOHN ADAMS (LIB)		250	2.44	
ULYSSES S. GRANT (COM)		220	2.15	
FRANKLIN ROOSEVELT (SLB)		200	1.96	
TEDDY ROOSEVELT (SWK)		150	1.47	
Write-In		25	.24	
Total		10,230		
Over Votes		10		
Under Votes		20		
Comptroller				
(VOTE FOR) 1				
ADLAI E. STEVENSON (DEM)		3,100	30.36	
CHESTER A. ARTHUR (REP)		2,050	20.08	
CALVIN COOLIDGE (LIB)		1,530	14.99	
JOHN C. BRECKENRIDGE (LAB)		1,310	12.83	
SPIRO AGNEW (SWK)		1,040	10.19	
MARTIN VAN BUREN (CON)		1,020	9.99	
Write-In		160	1.57	
Total		10,210		
Over Votes		10		
Under Votes		40		

Sample ERM Election Summary Report



EL45A Page 1 of 2

File Edit View Search

SUMMARY REPT-GROUP DETAIL

ANY COUNTY, US
GENERAL ELECTION
NOVEMBER 4, 2008

REPORT-EL45A

RUN DATE:04/07/09 10:19 AM

	TOTAL VOTES	%	Election Day	Absentee
PRECINCTS COUNTED (OF 2)	2	100.00		
REGISTERED VOTERS - TOTAL	10,000			
BALLOTS CAST - TOTAL	8,760		8,500	260
BALLOTS CAST - BLANK	0		0	0
VOTER TURNOUT - TOTAL		87.60		
VOTER TURNOUT - BLANK				
Governor				
(VOTE FOR) 1				
GEORGE WASHINGTON (REP)	3,600	35.19	3,500	100
THOMAS JEFFERSON (DEM)	2,550	24.93	2,500	50
BEN FRANKLIN (CON)	525	5.13	500	25
JOHN ADAMS (LIB)	250	2.44	250	0
TEDDY ROOSEVELT (SWK)	150	1.47	150	0
FRANKLIN ROOSEVELT (SLB)	200	1.96	200	0
ABRAHAM LINCOLN (LAB)	1,415	13.83	1,400	15
ULYSSES S. GRANT (COM)	220	2.15	200	20
ANDREW JACKSON (COU)	725	7.09	700	25
ROBERT E. LEE (FRE)	570	5.57	550	20
Write-In	25	.24	20	5
Total	10,230		9,970	260
Comptroller				
(VOTE FOR) 1				
CHESTER A. ARTHUR (REP)	2,050	20.08	2,000	50
ADLAI E. STEVENSON (DEM)	3,100	30.36	3,000	100
MARTIN VAN BUREN (CON)	1,020	9.99	1,000	20
CALVIN COOLIDGE (LIB)	1,530	14.99	1,500	30
SPIRO AGNEW (SWK)	1,040	10.19	1,000	40
JOHN C. BRECKENRIDGE (LAB)	1,310	12.83	1,300	10
Write-In	160	1.57	150	10
Total	10,210		9,950	260

Sample ERM Election Summary Report with Group Detail



EL52 Page 1 of 4

File Edit View Search

NUMBERED KEY CANVASS

RUN DATE:01/29/13 10:43 AM

STATISTICS

REPORT-EL52 PAGE 0001

01 = REGISTERED VOTERS - TOTAL	TOTAL	PERCENT	04 = BALLOTS CAST - DEMOCRAT	TOTAL	PERCENT
02 = BALLOTS CAST - TOTAL	1,054		05 = BALLOTS CAST - NONPARTISAN	305	37.47
03 = BALLOTS CAST - REPUBLICAN	814		06 = BALLOTS CAST - BLANK	100	12.29
	409	50.25		0	

	01	02	03	04	05	06
0001 PRECINCT 1	651	511	256	205	50	0
0002 PRECINCT 2	201	151	101	50	0	0
0003 PRECINCT 3	201	151	51	50	50	0
0004 PRECINCT 4	1	1	1	0	0	0

NUMBERED KEY CANVASS

RUN DATE:01/29/13 10:43 AM

REPUBLICAN

REPORT-EL52 PAGE 0002

UNITED STATES SENATOR

<Vote for no more than > 1

01 = JACK SHEPARD

02 = JOHN LOCKE

03 = JAMES FORD

235

41.67

04 = KATE AUSTEN

15

2.66

139

24.65

05 = ROSE HENDERSON

75

13.30

50

8.87

06 = HUGO REYES

50

8.87

	01	02	03	04	05	06
0001 PRECINCT 1	82	14	25	15	75	50
0002 PRECINCT 2	101	50	0	0	0	0
0003 PRECINCT 3	51	75	25	0	0	0
0004 PRECINCT 4	1	0	0	0	0	0

Sample ERM Numbered Key Canvass Report

EL52S Page 1 of 1

File Edit View Search

NUMBERED KEY CANVASS
RUN DATE:01/29/13 10:52 AM

STATISTICS

REPORT-EL52 PAGE 0001

01 = REGISTERED VOTERS - TOTAL	TOTAL	PERCENT	04 = BALLOTS CAST - DEMOCRAT	TOTAL	PERCENT
02 = BALLOTS CAST - TOTAL	1,059		05 = BALLOTS CAST - NONPARTISAN	305	37.24
03 = BALLOTS CAST - REPUBLICAN	819		06 = BALLOTS CAST - BLANK	100	12.21
	414	50.55		0	

	01	02	03	04	05	06
0001 PRECINCT 1	651	511	256	205	50	0
0002 PRECINCT 2	201	151	101	50	0	0
0003 PRECINCT 3	201	151	51	50	50	0
0004 PRECINCT 4	1	1	1	0	0	0
0005 PRECINCT 5	5	5	5	0	0	0
0006 PRECINCT 6	0	0	0	0	0	0
0007 PRECINCT 7	0	0	0	0	0	0
0008 PRECINCT 8	0	0	0	0	0	0
0009 PRECINCT 9	0	0	0	0	0	0

Sample ERM Statistics Canvass Report



EL111 Page 2 of 3

File Edit View Search

NAME HEADING CANVASS

ANY COUNTY, USA
GENERAL ELECTION
NOVEMBER 5, 2013

UNOFFICIAL

RUN DATE:01/29/13 11:05 AM

UNITED STATES SENATOR

<Vote for no more than > 1

	J S A H C E K P H A R D	J L O O H C N K E S	J F A O M R E D S	K A U I S T E N	R H O E S E N D E R S O N	H R E V O E S
0001 PRECINCT 1	82	14	25	15	75	50
0002 PRECINCT 2	101	50	0	0	0	0
0003 PRECINCT 3	51	75	25	0	0	0
0004 PRECINCT 4	1	0	0	0	0	0
CANDIDATE TOTALS	235	139	50	15	75	50
CANDIDATE PERCENT	41.66	24.64	8.86	2.65	13.29	8.86

REPRESENTATIVE IN CONGRESS, 18TH DISTRICT

<Vote for no more than > 1

	J T A I M R E S	K I R K I E S	J L P I E U I C A C A R P H E R
0001 PRECINCT 1	201	35	15
0002 PRECINCT 2	1	0	0
0003 PRECINCT 3	101	50	0
0004 PRECINCT 4	1	0	0
CANDIDATE TOTALS	304	85	15
CANDIDATE PERCENT	75.24	21.03	3.71

Sample ERM Name Heading Canvass Report

Block Style Canvass



H.86 Page 1 of 2										
File Edit View Search										
JURISDICTIONAL CANVASS										
RUN DATE:12/02/08 04:33 PM										
VOTES PERCENT					VOTES					
CHARTER AMENDMENT 08-1 FIREMAN TAX CITY OF PONTIAC					CHARTER AMENDMENT 08-4 POLICE TAX CITY OF PONTIAC					
Vote for not more than 1					Vote for not more than 1					
01 = YES					07 = YES					
02 = NO					08 = NO					
CHARTER AMENDMENT 08-2 BUDGET CITY OF PONTIAC					CHARTER AMENDMENT 08-5 FIRE DEPT MANNING CITY OF PONTIAC					
Vote for not more than 1					Vote for not more than 1					
03 = YES					09 = YES					
04 = NO					10 = NO					
CHARTER AMENDMENT 08-3 YOUTH RECREATION CITY OF PONTIAC										
Vote for not more than 1										
05 = YES										
06 = NO										
	01	02	03	04	05	06	07	08	09	10
0413 Pontiac City, Pct. 1	0	0	0	0	0	0	0	0	0	0
0414 Pontiac City, Pct. 2	0	0	0	0	0	0	0	0	0	0
0415 Pontiac City, Pct. 3	0	0	0	0	0	0	0	0	0	0
0416 Pontiac City, Pct. 4	0	0	0	0	0	0	0	0	0	0
0417 Pontiac City, Pct. 5	0	0	0	0	0	0	0	0	0	0
0418 Pontiac City, Pct. 6	0	0	0	0	0	0	0	0	0	0
0419 Pontiac City, Pct. 7	0	0	0	0	0	0	0	0	0	0
0420 Pontiac City, Pct. 8	0	0	0	0	0	0	0	0	0	0
0421 Pontiac City, Pct. 9	0	0	0	0	0	0	0	0	0	0
0422 Pontiac City, Pct. 10	0	0	0	0	0	0	0	0	0	0
0423 Pontiac City, Pct. 11	0	0	0	0	0	0	0	0	0	0
0424 Pontiac City, Pct. 12	0	0	0	0	0	0	0	0	0	0
0425 Pontiac City, Pct. 13	0	0	0	0	0	0	0	0	0	0
0426 Pontiac City, Pct. 14	0	0	0	0	0	0	0	0	0	0
0427 Pontiac City, Pct. 15	0	0	0	0	0	0	0	0	0	0
0428 Pontiac City, Pct. 16	0	0	0	0	0	0	0	0	0	0
0429 Pontiac City, Pct. 17	0	0	0	0	0	0	0	0	0	0
0430 Pontiac City, Pct. 18	0	0	0	0	0	0	0	0	0	0

Jurisdictional Canvass



LOCAL OFFICE CANVASS		ANY COUNTY, US GENERAL ELECTION NOVEMBER 4, 2009		REPORT-EL60		PAGE 001
RUN DATE:04/16/09 10:29 AM		WITH 4 OF 4 PRECINCTS REPORTING				
PRECINCT	OFFICE TITLE	CANDIDATE	VOTES			
0001 PRECINCT 1	JUSTICE OF THE PEACE PRECINCT 1	NON-JAMES HOWLETT	550	43.41		
		NON-PETER RASPUTIN	500	39.46		
		NON-KURT WAGNER	201	15.86		
		OVER VOTES	1	.08		
		UNDER VOTES	15	1.18		
0002 PRECINCT 2	JUSTICE OF THE PEACE PRECINCT 2	NON-ANTHONY STARK	750	53.50		
		NON-BRUCE D. BANNER	640	45.65		
		OVER VOTES	2	.14		
		UNDER VOTES	10	.71		
0003 PRECINCT 3	JUSTICE OF THE PEACE PRECINCT 3	NON-JOHN CONNOR	450	48.81		
		NON-ROBERT DRAKE	472	51.19		
		OVER VOTES	0			
		UNDER VOTES	0			
0004 PRECINCT 4	JUSTICE OF THE PEACE PRECINCT 4	NON-LUCAS BISHOP	1,500	37.43		
		NON-FRANK CASTLE	2,500	62.39		
		OVER VOTES	2	.05		
		UNDER VOTES	5	.12		

Sample ERM Local Office Canvass Report



EL50 Page 3 of 5		
File Edit View Search		
PRECINCTS COUNTED	ANY COUNTY, US	
RUN DATE:04/16/09 12:19 PM	GENERAL ELECTION	REPORT-EL50
	NOVEMBER 4, 2009	
ELECTION TOTALS	{ N O T C O U N T E D }	
7 PRECINCT 7	8 PRECINCT 8	9 PRECINCT 9
10 PRECINCT 10	11 PRECINCT 11	12 PRECINCT 12
13 PRECINCT 13	14 PRECINCT 14	15 PRECINCT 15
16 PRECINCT 16	17 PRECINCT 17	18 PRECINCT 18
19 PRECINCT 19	20 PRECINCT 20	21 PRECINCT 21
22 PRECINCT 22	23 PRECINCT 23	24 PRECINCT 24
25 PRECINCT 25		

Precincts Counted/Not Counted Canvass



PRECINCTS COMPLETED LISTING				GENERAL ELECTION		REPORT-EL50A	
RUN DATE:04/16/09 04:16 PM				NOVEMBER 4, 2009		(WITH 6 OF 25 PRECINCTS REPC	
PRECINCT	TOTAL	REG. TURN					
	BALS	VOTERS	OUT				
1 PRECINCT 1	575	1,000	57.50				
2 PRECINCT 2	1,648	2,500	65.92				
3 PRECINCT 3	2,115	3,555	59.49				
4 PRECINCT 4	3,255	4,225	77.04				
5 PRECINCT 5	325	575	56.52				
6 PRECINCT 6	857	1,500	57.13				

Precincts Completed Listing



EL50D Page 1 of 27

File Edit View Search

PRECINCTS PROCESSED LISTING

Any County, USA
General Election
November 5, 2013

UNOFFICIAL

RUN DATE: 01/24/13 01:04 PM

Precinct	GROUP	SERIAL NO.	BALS	SERIAL NO.	BALS	SERIAL NO.	BALS	SERIAL NO.	BALS
1 PRECINCT 1 - 0	1	07370064	7						
1 PRECINCT 1 - 0	2	07370064	7						
2 PRECINCT 1 - 1	1	07370064	0						
2 PRECINCT 1 - 1	2	07370064	7						
3 PRECINCT 2	2	07370064	7						
4 PRECINCT 3	2	07370064	0						
5 PRECINCT 4	2	07370064	0						
6 PRECINCT 5 - 0	2	07370064	0						
7 PRECINCT 5 - 1	2	07370064	0						
8 PRECINCT 6	2	07370064	0						
9 PRECINCT 7	2	07370064	0						
10 PRECINCT 8	2	07370064	0						
11 PRECINCT 9	2	07370064	0						
12 PRECINCT 10	2	07370064	0						
13 PRECINCT 11	2	07370064	0						
14 PRECINCT 12	2	07370064	0						
15 PRECINCT 13	2	07370064	0						
16 PRECINCT 14	2	07370064	0						
17 PRECINCT 15	2	07370064	0						

Precincts Processed Listing



SYSTEM LOG LISTING				ELECTION ID: 1	
RUN DATE: 04/21/09 01:55 PM					
USER	DATE	TIME	SYSTEM ACTION OR ERROR INFORMATION	COUNTED INFORMATION	
	04-30	02:55	pm DATABASE CREATED		
	04-30	02:55	pm EXITED ELECTION REPORTING MANAGER SYSTEM		
	04-30	02:56	pm ENTERED ELECTION REPORTING MANAGER SYSTEM - REL 6.4.0.0y		
	04-30	02:56	pm START PACK ACCUMULATION (Replace Mode - beginning with first)		
	04-30	02:57	pm STOP PACK ACCUMULATION		
	04-30	02:57	pm START PACK ACCUMULATION (Replace Mode - beginning with first)		
	04-30	02:57	pm STOP PACK ACCUMULATION		
	04-30	02:57	pm EXITED ELECTION REPORTING MANAGER SYSTEM		
	04-07	02:35	pm ENTERED ELECTION REPORTING MANAGER SYSTEM - REL 7.5.2.0c		
	04-07	02:35	pm CREATED .RSH FILE		
	04-07	02:35	pm CREATED .CTH FILE		
	04-07	02:35	pm CONTINUE WITH CURRENT ELECTION - 0 TOTAL BALLOTS CAST		
	04-07	02:35	pm EXITED ELECTION REPORTING MANAGER SYSTEM		
	04-10	01:56	pm ENTERED ELECTION REPORTING MANAGER SYSTEM - REL 7.5.2.0c		
	04-10	01:56	pm CONTINUE WITH CURRENT ELECTION - 0 TOTAL BALLOTS CAST		
	04-10	01:56	pm ENTERED ELECTION REPORTING MANAGER SYSTEM - REL 7.5.2.0c		
	04-10	01:56	pm CREATED .CTH FILE		
	04-10	01:56	pm CONTINUE WITH CURRENT ELECTION - 0 TOTAL BALLOTS CAST		
	04-10	01:56	pm DATABASE RESET		
	04-10	01:57	pm EXITED ELECTION REPORTING MANAGER SYSTEM		
	04-14	11:06	am ENTERED ELECTION REPORTING MANAGER SYSTEM - REL 7.5.2.0c		
	04-14	11:06	am CONTINUE WITH CURRENT ELECTION - 0 TOTAL BALLOTS CAST		
	04-14	11:06	am EXITED ELECTION REPORTING MANAGER SYSTEM		
	04-15	12:37	pm ENTERED ELECTION REPORTING MANAGER SYSTEM - REL 7.5.2.0c		
	04-15	12:37	pm RESET RESULTS INITIATED BY START UP		
	04-15	12:37	pm DATABASE RESET		
	04-15	12:37	pm RESET RESULTS INITIATED BY START UP COMPLETED		

System Log



IL68 Page 1 of 2
File Edit View Search

MANUAL CHANGES LOG LISTING
WITH 2 OF 2 PRECINCTS REPORTING
RUN DATE: 04/16/09 04:28 PM

ANY COUNTY, US
GENERAL ELECTION
NOVEMBER 4, 2008

REPORT-ELAS PAGE 001
ELECTION ID: NYDEMO

PRECINCT	CANDIDATE	USER	DATE	TIME	GRP	OLD	NEW
0001 PRECINCT 1	VOTERS		04-16	09:20	am	2	0
			04-16	04:25	pm	2	10,000
	BALLOTS CAST - TOTAL		04-16	09:20	am	2	0
			04-16	04:25	pm	2	8,500
	GEORGE WASHINGTON		04-16	09:20	am	2	0
			04-16	04:25	pm	2	5,120
	THOMAS JEFFERSON		04-16	09:20	am	2	0
			04-16	04:25	pm	2	1,180
	ABRAHAM LINCOLN		04-16	09:20	am	2	0
			04-16	04:25	pm	2	500
	ANDREW JACKSON		04-16	09:20	am	2	0
			04-16	04:25	pm	2	300
	ROBERT E. LEE		04-16	09:20	am	2	0
			04-16	04:25	pm	2	20
	BEN FRANKLIN		04-16	09:20	am	2	0
			04-16	04:25	pm	2	200
	JOHN ADAMS		04-16	09:20	am	2	0
			04-16	04:25	pm	2	250
	ULYSSES S. GRANT		04-16	09:20	am	2	0
			04-16	04:25	pm	2	325
	FRANKLIN ROOSEVELT		04-16	09:20	am	2	0
			04-16	04:25	pm	2	200
	TEDDY ROOSEVELT		04-16	09:20	am	2	0
			04-16	04:25	pm	2	400
	Write-In		04-16	09:20	am	2	0
			04-16	04:25	pm	2	3
	OVER VOTES		04-16	09:20	am	2	0
			04-16	04:25	pm	2	9
	UNDER VOTES		04-16	09:20	am	2	0
			04-16	04:25	pm	2	2
0002 PRECINCT 2	VOTERS		04-16	09:22	am	2	0
			04-16	04:22	am	2	5,000
	GEORGE WASHINGTON		04-16	09:22	am	2	0
			04-16	04:22	am	2	1,200
	THOMAS JEFFERSON		04-16	09:22	am	2	0
			04-16	04:22	am	2	500
	ABRAHAM LINCOLN		04-16	09:22	am	2	0
			04-16	04:22	am	2	700
	ANDREW JACKSON		04-16	09:22	am	2	0
			04-16	04:22	am	2	600
	ROBERT E. LEE		04-16	09:22	am	2	0
			04-16	04:22	am	2	250
	BEN FRANKLIN		04-16	09:22	am	2	0
			04-16	04:22	am	2	350
	JOHN ADAMS		04-16	09:22	am	2	0
			04-16	04:22	am	2	150
	ULYSSES S. GRANT		04-16	09:22	am	2	0
			04-16	04:22	am	2	850
	FRANKLIN ROOSEVELT		04-16	09:22	am	2	0
			04-16	04:22	am	2	250
	TEDDY ROOSEVELT		04-16	09:22	am	2	0
			04-16	04:22	am	2	140
	Write-In		04-16	09:22	am	2	0
			04-16	04:22	am	2	8
	OVER VOTES		04-16	09:22	am	2	0
			04-16	04:22	am	2	2
	VOTERS		04-16	09:22	am	2	5,000
			04-16	04:22	am	2	6,500
	BALLOTS CAST - TOTAL		04-16	09:22	am	2	5,000
			04-16	04:22	am	2	5,000
	GEORGE WASHINGTON		04-16	09:22	am	2	5,000
			04-16	04:22	am	2	5,070
	THOMAS JEFFERSON		04-16	09:22	am	2	1,200
			04-16	04:22	am	2	1,205
	ABRAHAM LINCOLN		04-16	09:22	am	2	500
			04-16	04:22	am	2	505
	ANDREW JACKSON		04-16	09:22	am	2	700
			04-16	04:22	am	2	710
	ROBERT E. LEE		04-16	09:22	am	2	600
			04-16	04:22	am	2	605
	BEN FRANKLIN		04-16	09:22	am	2	250
			04-16	04:22	am	2	257
	JOHN ADAMS		04-16	09:22	am	2	350
			04-16	04:22	am	2	360
	ULYSSES S. GRANT		04-16	09:22	am	2	150
			04-16	04:22	am	2	155
	FRANKLIN ROOSEVELT		04-16	09:22	am	2	850
			04-16	04:22	am	2	855
	TEDDY ROOSEVELT		04-16	09:22	am	2	250
			04-16	04:22	am	2	256
	Write-In		04-16	09:22	am	2	140
			04-16	04:22	am	2	144

Manual Entry Log

**SAMPLE DS200 REPORTS**

*** BALLOT STATUS ACCOUNTING REPORT ***

9:07 AM October 24, 2007

Unit S/N: 0107380021

ANY CITY

2006 GENERAL ANY STATE

1 POLL 1

Election Date: September 06, 2008

Poll Opened Date: November 12, 2007

Poll Opened Time: 3:48 PM

Poll Closed Date: November 12, 2007

Poll Closed Time: 3:49 PM

Public Count: 10

Poll Voting Report

Total Ballots: 10

Ballots for Code00001-01-010

Ballots for Code00002-01-011

Ballots for Code00003-01-012

Ballots for Code00004-01-010

Ballots for Code00005-01-011

Ballots for Code00006-01-012

Ballots for Code00007-01-010

Ballots for Code00008-01-011

Ballots for Code00009-01-012

Ballots for Code00010-01-010

Ballots for Code00011-01-011

*** END OF REPORT ***

DS200 Ballot Status Accounting Report



*** ZERO TOTALS REPORT ***
 7:10 AM November 06, 2007
 Unit Serial Number: 0107380003

ANY COUNTY
 2006 GENERAL ANY STATE
 1 POLL 1
 Election Date: November 06, 2007
 Poll Opened Date: November 06, 2007
 Poll Opened Time: 7:10 AM
 Poll Closed Date: Na
 Poll Closed Time: Na
 Public Count: 0

Poll Voting Report

Total Ballots: 0

GOVERNOR AND LT. GOVERNOR
 Number to Vote For 1

REP WILLIAM SULLIVAN	0
DEM STEPHEN MASSIMILIAN	0
CON DOUGLAS STONE	0
LIB ANNE NEET	0
SEN FRANK L. MATTHEWS	0
SEN ROBERT MARSH	0
LAB CHRISTOPHER R. RICHARDSON	0
CON THOMAS REISS	0
CON WILLIAM MALICKI	0
FRE WILLIAM RHODES	0
Write-in	0

COMPTROLLER
 Number to Vote For 1

REP MICHAEL SANTAROGA	0
DEM CHERYL SIMON	0
CON PETER F. SAXTON	0
LIB FRANKLIN MARGO	0
SEN EUGENE RUFF	0
SEN ARTHUR SALAMACK	0
LAB THOMAS TURNER	0
CON KENNETH INTERLICHIO	0
Write-in	0

WE, THE UNDERSIGNED DO HEREBY CERTIFY
 THAT THE ABOVE RESULTS ARE A TRUE AND
 ACCURATE ACCOUNT OF ALL BALLOTS COUNTED
 AND THAT ALL COUNTERS WERE ZERO (0) WHEN
 THE POLLS OPENED AND THAT THE ELECTION WAS
 HELD IN ACCORDANCE WITH THE LAWS OF THE STATE.

ELECTION JUDGE

ELECTION JUDGE

ELECTION JUDGE

ELECTION JUDGE

ELECTION JUDGE

01 ANYCOUNTY POLL
 UNITY Serial Number: 010101011

END OF REPORT

DS200 Zero Report



*** EVENT LOG REPORT ***

1:08 PM April 22, 2014

Unit Serial Number: 02095350655

TIME	DATE	MSG ID
MESSAGE TEXT		
16:58:33	04/22/2014	1114111
Election media created		
17:01:39	04/22/2014	1004002
Election loaded		
17:01:44	04/22/2014	1004326
All data paths and memory locations OK		
17:01:44	04/22/2014	1004143
Printing 1 copy of Configuration Report		
17:02:08	04/22/2014	1004128
Completed printing Configuration Report		
17:02:13	04/22/2014	1004193
Backup Media Detected		
17:02:14	04/22/2014	1004302
DS200/UVC not plugged in		
17:02:32	04/22/2014	1004149
Attempting to open poll		
17:02:38	04/22/2014	1004193
Backup Media Detected		
17:02:40	04/22/2014	6004022
Open process complete		

~~~~ sample continues on next page ~~~~

~~~~ some entries omitted for brevity ~~~~




17:02:41 04/22/2014 6004121
Keys detected on poll media 0108340394
17:02:41 04/22/2014 1004003
Poll opened
17:02:44 04/22/2014 1004143
Printing 1 copy of Ballot Status
Accounting Report
17:02:55 04/22/2014 1004128
Printing 1 copy of Zero Totals Report
17:14:01 04/22/2014 1004152
Attempting to enter Voting Mode
17:14:02 04/22/2014 1004056
Entering voting mode
17:14:18 04/22/2014 1004115
Vote Session Started
17:14:21 04/22/2014 3004101
IMR Log Characteristic Point Status Init
24 New 24
17:14:22 04/22/2014 1004107
Ballot images stored
17:14:22 04/22/2014 1004002
Ballot data stored
17:14:22 04/22/2014 1004022
Voting session complete
17:14:28 04/22/2014 1004115
Attempting to Close {Poll
17:14:29 04/22/2014 1004193
Backup Media Detected
17:14:30 04/22/2014 6004041
Close process complete.
17:14:32 04/22/2014 6004072
Collection process complete.
17:14:41 04/22/2014 1004013
Poll closed
17:14:43 04/22/2014 1004143
Printing 1 Copy of Ballot Status
Accounting Report
17:15:02 04/22/2014 1004128
Completed printing Ballot Status
Accounting Report
17:14:32 04/22/2014 6004072

Unit Serial Number: 02095350655

*** END OF REPORT ***

DS200 Event Log Report



*** CONFIGURATION REPORT ***

9:40 AM January 18, 2011

Unit Serial Number: 0107370046

VOTING DEVICE INFORMATION

HARDWARE CONFIGURATION

Current Time Date:

9:40 AM January 18, 2011

Time Zone: America/Chicago

Diverter Status: Not Detected

Touch Screen: OK

Power Source: AC

Battery Charge: 100%

Modem Status: Not Detected

Universal Voting Console: Not Detected

STORAGE

Available System Log Storage: 22 MB

Available Ballot Storage: 1751 MB

Available Backup Storage: 0 MB

FIRMWARE

Paper Processing Engine: 2.4.0.0x

Hardware Abstraction Engine: 2.4.0.0x

Tabulation Engine: 2.4.0.0x

Scanning Engine: 2.4.0.0x

Presentation Engine: 2.4.0.0x

Scanner Firmware: 2.13.0.0a

Power Management Firmware: 1.2.2.0a

Operating System Version: 2.4.0.0x

Firmware Last Updated On:

Unknown

Protected Count: 0

ELECTION QUALIFICATION INFORMATION

Election Name: TULSA

Election Date: 2010-12-31

Election Qualification Code: 05b1e725

ELECTION LOADED

ELECTION STATUS

Poll Opened Date: January 11, 2011

Poll Opened Time: 4:31 PM

Poll Closed Date: January 11, 2011

Poll Closed Time: 4:44 PM

Poll Status: Closed

Public Count: 1

ELECTION INFORMATION

Jurisdiction Name:

TULSA

Election Description:

TULSA

Election Date: December 31, 2010

Poll Place ID/Name:

863/Poll 001

Election Type: GENERAL

Number of Precincts: 1

BALLOT INFORMATION

Ballots By: Style

Ballot Height: 17.0

Ballot Width: 8.5

Ballot Rows: 62

Ballot Columns: 24

Ballot Art Work: DSIM

Target Type: oval

ELECTION SETTINGS

Ability to Re-open: Yes

Number of Zero Tapes to Print: 1

Number of Result Tapes to Print: 1

Print Event Log on Close: No

Transmit Results on Close: No

Report Detail: Media

Report Level: Poll

Candidate Sort Order:

Default Candidate Order

Single Over-Vote: No

Combine Over and Under Votes: No

Save Ballot Images: All

Status Barcode: Enabled

EXCEPTION BALLOT SETTINGS

Blank Ballots: Query

Over-voted Ballots: Query

Under-voted Ballots: Query

Marginal Marks: Reject

Cross-over Ballots: Query

DIVERTER SETTINGS

Diverter Installed: No

Identify Write-in Overvotes: No

Identify Blank Ballots: No

Identify Write-ins: No

*** END OF REPORT ***



VOTING RESULTS REPORT
 10:44 AM January 18, 2011
 Unity Serial Number: 010738001

AnyCounty USA
 AnyCounty USA
 01 AnyCounty Poll
 Election Date: July 04, 2011
 Poll Opened Date: July 04, 2011
 Poll Opened Time: 8:00 AM
 Poll Closed Date: July 04, 2011
 Poll Closed Time: 9:00 PM
 Public Count: 11

I
 Poll Voting Report

Total Ballots: 11

FOR PRESIDENT	
Number to Vote For	1
REP-ABRAHAM LINCOLN	3
DEM-ANDREW JACKSON	0
LIB-GEORGE WASHINGTON	6
Write-in	0

FOR GOVERNOR	
Number to Vote For	1
REP-ED MCMAHON	3
DEM-JOHNNY CARSON	7
LIB-MERV GRIFFIN	0
Write-in	0

FOR COUNTY CLERK	
Number to Vote For	1
REP-ELVIS PRESLEY	5
DEM-WLADZIU VALENTINO LIBERACE	1
LIB-KAREN CARPENTER	4
Write-in	0

QUESTION 1:

FOR	6
AGAINST	4

WE, THE UNDERSIGNED, DO HEREBY CERTIFY
 THAT THE ABOVE RESULTS ARE A TRUE AND
 ACCURATE ACCOUNT OF ALL BALLOTS COUNTED
 AND THAT ALL COUNTERS WERE ZERO (0) WHEN
 THE POLLS OPENED AND THAT THE ELECTION WAS
 HELD IN ACCORDANCE WITH THE LAWS OF THE
 STATE.

 Election Judge

 Election Judge

 Election Judge

 Election Judge

01 AnyCounty Poll
 Unity Serial Number: 0107380011

END OF REPORT

DS200 Results Report



Representative in Congress District 3

Total Write-ins: 7

Vote For: 1

64c01b140cf5a457F

Paper ballot
write-in vote →

● HARRY HARRIS
OR Write-In on line above

663d8886b9da5006F

Vote session
number →

● JAMES A. GARFIELD
OR Write-In on line above

8174845e6c90f2fff

● Terry Cloth
OR Write-In on line above

b15c192c3ece4cbcF

● Erin Edwards
OR Write-In on line above

ExpressVote card
write-in vote →

dc59ba6d667f4f6aF

W/I:CLAY POTTS

Write-In Snippets Report



SAMPLE DS850 REPORTS

Zero Report

1 of 2

Machine ID: 850942001

BMW DEMO

02/02/2010 16:02:25

BMW (English Only) DEMO

11/02/2010 11:14:18

First Ballot Date Time:

Ballots Cast Total:

0

Last Ballot Date Time:

Contest	Votes
BEST AUTOMOBILE MANUFACTURER	
(Vote For 1)	
BMW	0
MERCEDES	0
GENERAL MOTORS	0
HONDA	0
FERRARI	0
JAGUAR	0
FORD	0
VOLVO	0
Write-In	0
Over Votes	0
Under Votes	0
Total	0

BEST VOCAL ARTIST

(Vote For 2)	
FRANK SINATRA	0
ELVIS	0
PATSY CLINE	0
JANIS JOPLIN	0
BUDDY HOLLY	0
BARRY WHITE	0
BILLIE HOLIDAY	0
STEVIE RAY VAUGHAN	0
"MAMA" CASS ELLIOT	0
Write-In	0
Write-In	0
Over Votes	0
Under Votes	0
Total	0

BEST ICE-CREAM FLAVOR

(Vote For 1)	
CHOCOLATE	0
STRAWBERRY	0
VANILLA	0
Write-In	0
Over Votes	0
Under Votes	0
Total	0

DS850 Zero Report, part 1

Zero Report

2 of 2

Machine ID: 850942001

BMW DEMO

02/02/2010 16:02:25

BMW (English Only) DEMO

11/02/2010 11:14:18

First Ballot Date Time:

Ballots Cast Total:

0

Last Ballot Date Time:

Contest	Votes
PROPOSITION 1	
(Vote For 1)	
YES	0
NO	0
Over Votes	0
Under Votes	0
Total	0
PROPOSITION 2	
(Vote For 1)	
YES	0
NO	0
Over Votes	0
Under Votes	0
Total	0



DS850 Zero Report, part 2

Detail Results

1 of 2

BMW DEMO

BMW (English Only) DEMO

11/02/2010 11:14:18

02/02/2010 16:13:20

First Ballot Date Time: 02/02/2010 16:11:51

Last Ballot Date Time: 02/02/2010 16:12:08

Ballots Cast Total: 7

Contest	Votes
BEST AUTOMOBILE MANUFACTURER	
(Vote For 1)	
BMW	1
MERCEDES	0
GENERAL MOTORS	1
HONDA	0
FERRARI	0
JAGUAR	1
FORD	0
VOLVO	1
Write-In	2
Over Votes	1
Under Votes	0
Total	7
BEST VOCAL ARTIST	
(Vote For 2)	
FRANK SINATRA	0
ELVIS	0
PATSY CLINE	1
JANIS JOPLIN	1
BUDDY HOLLY	0
BARRY WHITE	0
BILLIE HOLIDAY	0
STEVIE RAY VAUGHAN	2
"MAMA" CASS ELLIOT	0
Write-In	3
Write-In	4
Over Votes	0
Under Votes	3
Total	14
BEST ICE-CREAM FLAVOR	
(Vote For 1)	
CHOCOLATE	1
STRAWBERRY	2
VANILLA	1
Write-In	1
Over Votes	1
Under Votes	1
Total	7
PROPOSITION 1	

DS850 Results Report



*** SYSTEM READINESS REPORT ***
12:10:50 Tue Dec 21 2010
Unit Serial Number: 0304050607

VOTING DEVICE INFORMATION

HARDWARE CONFIGURATION

Current Time Date: 12:10:50 Tue Dec 21 2010
Time Zone: America/Chicago
Processor: : Intel(R) Core(TM)2 Duo CPU E6400 @ 2.13GHz
Total RAM: 4009 MB
Available RAM: 3041 MB
RAM Test Status: OK
Camera Interface: OK
Touch Screen: OK
Report Printer: OK
Battery: OK
Power Source: AC
Battery Charge: 100

STORAGE

Total Data Storage: 938901 MB
Available Data Storage: 890987 MB
Data Storage Device Status: OK

FIRMWARE

DS850 Firmware Version: 2.1.0.0j

Master Control Program: Running
Tabulation Engine: Running
Presentation Engine: Running

Protected Count: 15164

ELECTION LOADED

ELECTION STATUS

Election Name: VARINSTR
Election Date: 2006-01-16
Election EDC: Secret

*** END OF REPORT ***

DS850 System Readiness Report



Precinct Processed Report

1 of 1

02/02/2010 16:14:31

 BMW DEMO
 BMW (English Only) DEMO
 11/02/2010 11:14:18

Total:	7	
First Ballot Time:	02/02/2010 16:11:51	
Last Ballot Time:	02/02/2010 16:12:08	
Code	Election District	Count
0001	PRECINCT 1	7

DS850 Precinct Processed Report

Ballot Style Counts

Machine #: 0304050607

12/17/2013 15:53:52

 NOV08GEN
 12/05/2013

First Ballot Date Time:	12/17/2013 15:28:34	Total Sheets Processed:	7
Last Ballot Date Time:	12/17/2013 15:29:09	Total Ballots Cast:	7
		Blank Sheets Cast:	2

Ballots Cast

BAY VILLAGE -01-A

Seq:00001 Typ:01 Spl:01 7

BAY VILLAGE -01-B

BAY VILLAGE -01-C

Page 1 of 42


DS850 Ballot Style Counts Report



SCHEDULE B LICENSE AGREEMENT

ELECTION SYSTEMS & SOFTWARE, LLC SOFTWARE LICENSE AGREEMENT

THIS SOFTWARE LICENSE AGREEMENT ("Agreement") is made effective as of the Effective Date as set forth in the State of Michigan Standard Contract ("Contract") entered into by and between the State of Michigan (the, "State") and Election Systems & Software, LLC ("Contractor"). Capitalized terms not otherwise defined herein shall have the same meanings ascribed to them in the Contract.

RECITALS:

- A. The State and/or Authorized Users (collectively referred to herein as "Authorized Users") desire to license the EMS Software and System Software (collectively referred to herein as the "Software") as set forth in each applicable Purchase Order submitted by an Authorized User.
- B. Contractor has agreed to provide such license and services, subject to the terms and conditions of this Agreement.

NOW, THEREFORE, in consideration of the foregoing recitals (which are specifically incorporated herein by this reference) and the mutual representations, warranties, covenants and agreements set forth below, the parties hereby agree as follows:

ARTICLE I LICENSE OF SOFTWARE

1. **Grant of License.** Subject to the terms and conditions of this Agreement and the Contract, Contractor hereby grants to the Authorized User a nonexclusive, nontransferable, royalty-free, perpetual, and irrevocable license for its bona fide full time, part-time and temporary employees as well as its authorized representatives to use the Software and Documentation, on-site at the Authorized User's designated locations in its county, city or town (the "Jurisdiction") and only on the Authorized Users' owned computer and network system. The Authorized User's obligation to use the Software and Documentation on-site at the Authorized User's designated location and on the Authorized User's owned computer and network system shall not apply to use of the Software by Authorized Users who have valid licenses from Contractor or through qualified third-party programmers authorized by Contractor. The license allows the Authorized User to use and copy the Software (in object code only) and the Documentation, solely for the purposes of defining an election and tabulating and reporting election results in the Jurisdiction. The licenses granted in this Section do not permit the Authorized User to use the Source Code for the Software. The license does not permit the Authorized User to take any of the following actions:

Reverse engineer, decompile, disassemble, re-engineer or otherwise create, attempt to create, or permit, allow or assist others to create, the Source Code or the structural framework for part or all of the Software;

Except as specifically set forth herein, Cause or permit any use, display, loan, publication, transfer of possession, sublicensing or other dissemination of the Software or Documentation, in whole or in part, to or by any third party including, but not limited to, any transfer of possession to, or use of the Software or Documentation by any third party to perform any services for the Authorized User (including, but not limited to, any coding, programming or layout services) without Contractor's prior written consent; or

Cause or permit any change to be made to the Software without Contractor's prior written consent.



Allow a third party to cause or permit any copying, reproduction or printing of any output generated by the Software in which Contractor owns or claims any proprietary intellectual property rights (e.g., copyright, trademark, patent pending or patent), including, but not limited to, any ballot shells or ballot code stock.

2. **License Fees.** In consideration for Contractor's grant of the license for the Software described in Section 1, the Authorized User shall pay Contractor the Software License Fees set forth in the Contract.

3. **Term of License.** The licenses granted in Section 1 shall commence upon the delivery of the Software described in Section 1 and shall continue until the first to occur of the following: (a) Authorized User ceases to use the Software; (b) Authorized User fails to pay the consideration due for the license; or (c) Authorized User breaches any material provision of this Agreement. Upon the termination of the license, the Authorized User shall immediately return the Software and Documentation (including any and all copies thereof) to Contractor, or (if requested by Contractor) destroy the Software and Documentation and certify in writing to Contractor that such destruction has occurred.

4. **Updates.** During the Initial Service Period or Extended Service Period, Contractor may provide new releases, upgrades or maintenance patches to the Software, together with appropriate Documentation ("Updates") to the Authorized Users in accordance with Sections 1.5(D) and 1.6(A) of Exhibit A to the Contract. The Authorized User is responsible for obtaining any upgrades or purchases of Third Party Products required to operate the Updates. All Updates shall be deemed to be Software for purposes of this Agreement upon delivery. Authorized User may install the Updates in accordance with Contractor's recommended instructions or may request that Contractor install the Updates. Contractor may charge Authorized User at the rates set forth in the Contract to, (i) train the Authorized User on Updates, if such training is requested by Authorized User; (ii) physically deliver and install the Updates or (iii) provide maintenance and support on the Software that is required as a result of the Authorized User's failure to timely or properly install an Update. If Authorized User proposes changes in the Software to Contractor, such proposals will become Contractor's property. Contractor may, in its sole discretion, elect to make or not to make such changes without reference or compensation to Authorized User or any third party. Contractor represents to Authorized User that the Updates will comply with all applicable state law requirements at the time of delivery. The Authorized User shall be responsible to ensure that it has installed and is using only the certified versions of Software provided by the Contractor in accordance with applicable law.

5. **Warranty.** Contractor agrees to warrant the Software in accordance with the warranty terms set forth in the Contract.

6. **Proprietary Rights to Software.** Authorized User acknowledges and agrees that Contractor owns all right, title and interest in and to the Software and Documentation, subject to the license granted herein. Contractor likewise owns all patents, trademarks, copyrights, trade names and other proprietary or intellectual property in, or used in connection with, the Software and Documentation. The Software and Documentation also contain confidential and proprietary trade secrets of Contractor which are protected by law and are of substantial value to Contractor. Authorized User shall keep the Software and Documentation free and clear of all claims, liens and encumbrances and shall maintain all copyright, trademark, patent or other intellectual or proprietary rights notices which are set forth on the Software, the Documentation, and all permitted copies thereof.



IN WITNESS WHEREOF, this Agreement has been executed effective as of the date it is signed by the last of the parties hereto.

ELECTION SYSTEMS & SOFTWARE, LLC
11208 John Galt Boulevard
Omaha, NE 68137
Fax No.: (402) 970-1291

Signature

Name (Printed or Typed)

Title

Date

Signature

Name (Printed or Typed)

Title

Date



STATE OF MICHIGAN

Contract No. 071B7700120
Voting System Hardware, Firmware, Software and Service

SCHEDULE C PRICING

1. The pricing schedule for the Contract Activities is included in the cost tables on the following pages. .
2. Pricing encompasses 5 separate tables (attached):
 - Cost Table 1. Precinct Tabulators and Accessible Voting Systems
 - Cost Table 2. Election Management System (EMS) Software – License Fee and Extended Service / Maintenance (NOTE: this cost table has 2 parts: Tables 2a and 2b)
 - Cost Table 3. OPTIONAL ITEM – High Speed AVCB Tabulator
 - Cost Table 4. Component Replacement / Additional Parts
 - Cost Table 5. Additional Options/Costs – EMS Network Configuration options - The Contractor has standard third party network configurations and related pricing for use by counties and select local jurisdictions in implementing Election Management Systems (EMS) for the following environments: Accumulation Only; Full EMS; Accumulation Only with modemming; and Full EMS with modemming. Orders for these configuration components will be handled and negotiated separately between the Contractor and their individual customers.
3. **Prices include all costs**, including but not limited to any one-time or set-up charges, fees, and potential costs that Contractor may charge the State/Authorized User (e.g., shipping and handling, per-piece pricing, and palletizing). **Any element of the Contractor's system with an associated cost (including optional system features) must be listed and included in one of the Cost Tables available.**
4. Prices listed are fixed for the contract term, and represent the maximum prices per item. Notwithstanding the foregoing, the Contractor is authorized to negotiate pricing with individual counties that are lower than the prices listed here. Any and all lower negotiated prices must be communicated to the Program Manager immediately as they are finalized. Additionally, price changes may be proposed at the end of the initial service and maintenance period, (acquisition year + 4 years) **for component replacement/additional parts only (Cost Table 4).**

**Cost Table 1. Precinct Tabulators and Accessible Voting Systems**

	PURCHASE AND INITIAL SERVICE / MAINTENANCE PERIOD (ACQUISITION YEAR + 4 YEARS)			EXTENDED SERVICE / MAINTENANCE PERIOD (ANNUAL PAYMENT – UP TO 5 ADDITIONAL YEARS)
	Per-Unit Purchase Price	Incentive Program (existing equipment per-unit trade-in discount) See Schedule A Section 1.9	Per-Unit Purchase Price with Discount	Per-Unit Annual Extended Service/Maintenance Price
Precinct Tabulators – • 1 at State level (no charge) • 1 per county • 1 per precinct • AVCB Tabulators ES&S DS200 Tabulator Includes: - Plastic Ballot Box with Steel Door and e-Bin - Internal Backup Battery - Paper Roll - 4GB USB Memory Device	\$5,299.00	(\$1,106.00)	\$4,193.00	\$220.00
Accessible Voting System (1 per polling place)** ES&S ExpressVote Includes: - Soft-sided Case - Internal Backup Battery - Detachable ADA Keypad - 4GB USB Memory Device - Headphones - Privacy Screen <u>which attaches to the AutoMARK table.</u>	\$3,260.00	(\$563.00)	\$2,697.00	\$175.00

Polling places with more than 2 precincts may receive an additional accessible voting system at the price listed above.

Note: ES&S will provide one (1) each of the DS200 Tabulator and ExpressVote Accessible Voting Terminal to each County at no charge. Additional backup units may be purchased from ES&S at a price no higher than the prices shown in Cost Table 1 above.

**Cost Table 2. Election Management System (EMS) Software – SOFTWARE LICENSE FEE; INITIAL AND EXTENDED SERVICE / MAINTENANCE**

Two cost tables are included in this section (2a and 2b). Several clarifying notes are provided with respect to EMS Pricing:

EMS costs will be applicable only to counties. Each county will select either:

- 1) **Full EMS (“Program Your Own”)**, for counties that fully program their elections internally (without reliance on the voting system Contractor/subcontractor); or
 - 2) **Accumulation-Only EMS**, for counties that rely on the voting system Contractor/subcontractor for programming; the accumulation-only functionality for these counties shall include the capability to burn media, read media, transmit results and produce accumulation reports.
- The Accumulation-Only version of EMS will also be available to local jurisdictions statewide. While each county will acquire either Full EMS or Accumulation-Only EMS, local cities and townships (local jurisdictions) will have the option to acquire a copy of Accumulation Only EMS. A statewide EMS purchase for local jurisdictions is **not** planned. Costs for Accumulation-Only EMS for local jurisdictions will be included in the total EMS license fee for the respective county.
 - The EMS License fee is included in the initial payment in year 1, and covers the entire contract term. The initial payment also covers the initial service and maintenance period (acquisition year, plus 4 additional years). The extended service/maintenance period covers an additional 5 years, after the expiration of the initial service and maintenance period. During the extended service/maintenance period (years 6-10), counties have the option of selecting either an annual fee or an hourly technical support rate. See **Table 2c** for additional information on extended service/maintenance costs and options.

NOTE: Additional EMS component costs are listed in **Cost Table 4**. Also, **Cost Table 5** includes costs for required/recommended EMS Network components, for several possible network configurations. These additional EMS component and network costs are the sole responsibility of the county/local jurisdiction.



Cost Table 2a – Base EMS Price (Software License Fee + Initial Service/Maintenance)

	EMS SOFTWARE LICENSE FEE (INCLUDES INITIAL SERVICE / MAINTENANCE FOR ACQUISITION YEAR + 4 ADDITIONAL YEARS)
Category	EMS Software License Fee (price per copy)
County Option 1: Full EMS Includes: - ElectionWare PYO - Election Reporting Manager - ElectionWare Results Web-Based Election Night Reporting - Automated Test Deck Creation (Michigan Specific) - Text to Speech (English, Spanish, Bengali) - EXP Utility	\$91,432.00
County Option 2: Accumulation Only Includes: - Election Base Package - Reporting Only (Home, Acquire and Produce Modules) - ElectionWare Results Web-Based Election Night Reporting - Automated Test Deck Creation (Michigan Specific) - Media Burn - EXP Utility	\$36,635.00
Local Jurisdiction EMS: Accumulation-Only	Counties may distribute additional copies of the Accumulation Only Software Modules, as needed, to the Local Jurisdictions at No-Charge



Cost Table 2b – EMS Extended Service / Maintenance Fees

NOTE: For EMS extended service / maintenance, counties have the option to choose either a flat annual rate or an hourly technical support rate. These rates shall be the same for all counties for each option (one set price for Full EMS, one set price for Accumulation-Only EMS).

	EMS EXTENDED SERVICE / MAINTENANCE PERIOD (UP TO 5 ADDITIONAL YEARS)	
	OPTION 1: ANNUAL COUNTY EMS SUPPORT PAYMENT	OPTION 2: HOURLY TECHNICAL SUPPORT RATE
	EMS Extended Service / Maintenance Annual Payment Option (annual price per county)	EMS Extended Service / Maintenance Hourly Technical Support Rate Option for Counties
County Option 1: Full EMS*	\$20,130.00	\$215.00 per hour
County Option 2: Accumulation-Only*	\$7,905.00	



Cost Table 3. OPTIONAL ITEM – High Speed AVCB Tabulator

	Hardware COTS? (Y/N)	Additional Hardware / Software Required? (Y/N)**	Processing Speed (Ballots per Minute)	Per-Unit Purchase Price (includes Service / Maintenance for acquisition year + 4 years)	Annual Per-Unit Extended Service / Maintenance Price (5 additional years)
High Speed AVCB Tabulator*					
Make / Model / Version #, recommended options for Small, Medium and Large-sized local jurisdictions					
Small County: - ES&S DS200 Scanner			DS200: 11" – 13		
Medium County: - ES&S DS200 Scanner - ES&S DS450 Scanner	N	N	14" – 12 17" – 11 19" – 10	\$5,299.00	\$220.00
Large County (See Note 1): - ES&S DS450 Scanner - ES&S DS850 Scanner	N N	N N	DS450: 11" – 91 14" – 75 17" – 63 19" – 50	\$5,299.00 \$36,416.00	\$220.00 \$3,173.00
DS450 & DS850 Scanners Include: - Steel Table/Cart - Dust Cover - Reports Printer - Audit Printer - UPS Battery Backup - Two (2) USB Cables - Start-Up Kit with Three (3) 8GB USB Memory Device	N N	N N	DS850: 11" – 365 14" – 300 17" – 250 19" – 200	\$36,416.00 \$98,487.00	\$3,173.00 \$4,941.00

***NOTES:**

- The AVCB tabulators are utilized at the local jurisdiction (city/township) level, not at the county level.


Cost Table 4. Component Replacement / Additional Parts

All applicable and available component parts for the Contractor's system are listed below. For each component part, the Contractor has identified the source for obtaining the part and whether the part is available commercially off the shelf (COTS).

NOTE: If alternative purchase sources are available, the State, counties and local jurisdictions reserve the right to purchase from those sources.

Contractor must also list all other system features available in their proposed system, if the cost for such features have not been included elsewhere in this Cost Proposal.

Product	Estimated Life (Years)	Purchase Source (Indicate if COTS)	Per-Unit Price
Memory Devices (specify make/model)	Note: ES&S has listed Optional Items, Consumable/Replacement Parts, and COTS Components of the System by Equipment Type Below.		
Printer Cartridges			
Paper Rolls			
Backup Batteries			
Components specific to the Accessible Voting System (list each separately)			
Components specific to the high-speed AVCB tabulator, if offered (list each separately)			
Security Seals / Other Security items			
OTHER (list any/all other available component / replacement parts, including all COTS available systems/components):			
DS200:			
Optional Items:			
Landline Modem (Item #57601)	Life of DS200	Avnet	\$150.00 Price is based upon factory install with initial order
Wireless Modem (Select from AT&T (#57607), Sprint (#57603), or Verizon (#57605) wireless capability)	Life of DS200	Avnet	\$249.00 Price is based upon factory install with initial order
DS200 Blue Tote Bin/Ballot Storage Box (Item #00074)	N/A. Replace if damaged	Pivot International	\$175.00
UPS Battery Backup-BR24BPG (Item #7500)	Average Battery Life of Three (3) to Five (5) Years depending upon usage	Varies COTS	\$205.00
Consumable/Replacement Items:			
Printer Ink/Ribbon	Not Required	Not Required	Not Required
Paper Roll (Item #2320)	N/A. Replace as needed.	NCNR 9078-1514	\$1.12
Ballot Marking Pens (Item #6100)	N/A. Replace as needed.	BIC Grip Roller Ball Pen, 0.7mm, Black	\$0.95



Product	Estimated Life (Years)	Purchase Source (Indicate if COTS)	Per-Unit Price
		COTS – Custom ES&S Logo	
Tamper Evident Seal/Label: 100 Label Roll, Barcode 1" x 3-3/8" Non-Residue Tamper Evident Labels – Blue (Item #800-0084)	As Needed	Intab COTS	\$44.95
8.4" Numbered Pull-Tite Seal-Blue (Item #RINS2)	As Needed	Rifkin COTS	\$0.31
DS200 Back-Up Battery (Installed by Trained ES&S Personnel Only)-Price if Installed During a Scheduled Preventative Maintenance Visit (Item #290-00038)	Average Life of 5-Years	Zeus Battery Products, Inc.	\$170.00
DS200 Coin Cell Motherboard Battery (Installed by Trained ES&S Personnel Only)-Price if Installed During a Scheduled Preventative Maintenance Visit	Average Life of 5-Years	Energizer Coin Cell; CR 2032 COTS	Included in Hardware Maintenance
DS200 4GB Thumb Drive (Additional) (Item #2396)	Up to 10,000 writes/erases	Delkin Devices with ES&S Logo and Special Coding	\$105.00
DS200 Ballot Box Key (Item #340-00030)	As needed if lost or broken	Varies COTS	\$0.58
DS200 Unit Key (Item #2213)	As needed if lost or broken	Varies COTS	\$4.25
DS200 AC Power Cord (Item #2288)	As needed if lost or broken	Varies COTS	\$4.00
COTS Components of the System:			
None			
DS850:			
Consumable/Replacement Items:			
OkiData B432DN Toner	N/A. Replace as needed.	Varies COTS	\$121.50
OkiData ML420 Printer Ribbon	N/A. Replace as needed.	Varies COTS	\$8.26
1-Part Printer Paper (Item #ES-PP1)	N/A. Replace as needed.	Varies COTS	\$48.10
8 1/2" x 11" Standard Printer Paper (500 Sheets) (Item #ES-PP)	N/A. Replace as needed.	Varies COTS	\$3.55
DS850 Tool Kit (Item #ES-850TOOL)	N/A. Replace if lost.	Varies. ES&S Assembled Kit	\$140.56
DS850 Table/Cart Assy (Item #6823)	N/A. Replace if damaged.	SourceOne	\$1,465.00



Product	Estimated Life (Years)	Purchase Source (Indicate if COTS)	Per-Unit Price
UPS Battery Backup (Item #6969)	Average Battery Life of Three (3) to Five (5) Years depending upon usage	APC Power Saving Back-UPS Pro 1500 - Futureware Dist., Inc. Proprietary (Sourced from ES&S)	\$240.00
Motherboard Battery (Installed by Trained ES&S Personnel Only)-Price if Installed During a Scheduled Preventative Maintenance Visit	Average Battery Life of 6-10 Years	Energizer Coin Cell; CR 2032 COTS	Included in Hardware Maintenance
DS850 8GB Thumb Drive (Additional) (Item #2397)	Up to 10,000 writes/erases	Delkin Devices with ES&S Logo and Special Coding	\$165.00
COTS Components of the System:			
Okidata B432DN Printer	N/A. Replace if damaged or no longer functioning	Varies COTS	\$445.75
Okidata ML420 Printer	N/A. Replace if damaged or no longer functioning	Varies COTS	\$474.25
DS450:			
Consumable/Replacement Items:			
Okidata ML420 Printer Ribbon	N/A. Replace as needed.	Varies COTS	\$8.26
Dell 2810 Toner	N/A. Replace as needed.	Varies COTS	\$69.10
1-Part Printer Paper (Item #ES-PP1)	N/A. Replace as needed.	Varies COTS	\$48.10
8 1/2" x 11" Standard Printer Paper (500 Sheets) (Item #ES-PP)	N/A. Replace as needed.	Varies COTS	\$3.55
UPS Battery Backup (Item #6969)	Average Battery Life of Three (3) to Five (5) Years depending upon usage	APC Power Saving Back-UPS Pro 1500 - Futureware Dist., Inc. Proprietary (Sourced from ES&S)	\$240.00
Motherboard Battery (Installed by Trained ES&S Personnel Only)-Price if Performed During a Scheduled Preventative Maintenance Visit	Average Battery Life of 6-10 Years	Energizer Coin Cell; CR 2032 COTS	Included in Hardware Maintenance
DS450 8GB Thumb Drive (Additional) (Item #2397)	Up to 10,000 writes/erases	Delkin Devices with ES&S Logo and Special Coding	\$165.00
COTS Components of the System:			



Product	Estimated Life (Years)	Purchase Source (Indicate if COTS)	Per-Unit Price
Dell 2810 Printer	N/A. Replace if damaged or no longer functioning	Varies COTS	\$198.50
Okidata ML420 Printer	N/A. Replace if damaged or no longer functioning	Varies COTS	\$474.25
ExpressVote:			
Optional Items:			
ExpressLink Activation Card Printer (Item #4200)	N/A. Replace if damaged or no longer functioning	Microcom Corporation	\$725.00
Consumable/Replacement Items:			
Printer Ink/Ribbon	Not Required	Not Required	Not Required
Tamper Evident Seal/Label: 100 Label Roll, Barcode 1" x 3-3/8" Non-Residue Tamper Evident Labels – Blue (Item #800-0084)	As Needed	Intab COTS	\$44.95
8.4" Numbered Pull-Tite Seal-Blue (Item #RINS2)	As Needed	Rifkin COTS	\$0.31
Privacy Screen for ExpressVote Unit (Attaches to existing AutoMARK Table) (Item #59-00003-01)	N/A. Replace if damaged	Election Data Corporation	\$25.00
Thermal Activation Cards- <u>Numbered and Stubbed</u> (Sold in packages of 250)	One use per Voter		
ExpressVote Thermal Activation Card-11 inch	One use per Voter	Varies COTS (Must Meet ES&S Specifications)	\$28.10/pkg
ExpressVote Thermal Activation Card-14 inch	One use per Voter	Varies COTS (Must Meet ES&S Specifications)	\$34.00/pkg
ExpressVote Thermal Activation Card-17 inch	One use per Voter	Varies COTS (Must Meet ES&S Specifications)	\$40.35/pkg
ExpressVote Thermal Activation Card-19 inch	One use per Voter	Varies COTS (Must Meet ES&S Specifications)	\$43.65/pkg
Thermal Activation Cards- <u>Blank</u>	One use per Voter		



Product	Estimated Life (Years)	Purchase Source (Indicate if COTS)	Per-Unit Price
(Sold in packages of 250)			
ExpressVote Thermal Activation Card-11 inch (Item #70-00001)	One use per Voter	Varies COTS (Must Meet ES&S Specifications)	\$22.50/pkg
ExpressVote Thermal Activation Card-14 inch (Item #70-00002)	One use per Voter	Varies COTS (Must Meet ES&S Specifications)	\$23.75/pkg
ExpressVote Thermal Activation Card-17 inch (Item #70-00003)	One use per Voter	Varies COTS (Must Meet ES&S Specifications)	\$26.25/pkg
ExpressVote Thermal Activation Card-19 inch (Item #70-00004)	One use per Voter	Varies COTS (Must Meet ES&S Specifications)	\$30.00/pkg
Headphone/Headset (Item #86002)	N/A. Replace as headphones become damaged or excessively dirty	Avid COTS (Must Meet ES&S Specifications)	\$3.95
Headphone Sanitary Ear Cover (Item #ES-EARCOVER)	One use per Voter	Avid COTS (Must Meet ES&S Specifications)	\$0.15
ExpressVote 4GB Thumb Drive (Additional) (Item #2396)	Up to 10,000 writes/erases	Delkin Devices with ES&S Logo and Special Coding	\$105.00
ExpressVote Back-Up Battery (Installed by Trained ES&S Personnel Only)-Price if Installed During a Scheduled Preventative Maintenance Visit (Item #290-00038)	Average Battery Life of Five (5) Years	5S2PESS1	\$170.00
ExpressVote Coin Cell Battery (Installed by Trained ES&S Personnel Only)-Price if Installed During a Scheduled Preventative Maintenance Visit	Average Battery Life of Five (5) Years	Energizer Coin Cell; CR 2032 COTS	Included in Hardware Maintenance
COTS Components of the System:			
None			
General Supplies:			
Touch Screen Cleaning Kit	N/A. Replace as needed.	Varies	\$8.05



Product	Estimated Life (Years)	Purchase Source (Indicate if COTS)	Per-Unit Price
(Item #6500)		COTS	
Wire Roto 8" Tooless Seal (Used if sealing the flashcard door) (Item #10002)	N/A. Replace as needed.	Varies COTS	\$0.89
ADA Stylus-Ball Gripper w/tip (Item #91706)	N/A. Replace as needed.	Varies COTS	\$5.31
Alcohol Isopropyl (Item #ES-AL)	N/A. Replace as needed.	Varies COTS	\$3.95
Canned Air (Item #ES-AR)	N/A. Replace as needed.	Varies COTS	\$5.25
Optional Services:			
Initial EMS Software Installation	N/A	ES&S Service	\$2,300.00/day
Firmware/Software Update Installation	N/A	ES&S Service	No-Charge (See Note 4)
Additional Training	N/A	ES&S Service	\$1,250.00/day

Optional Software:			
Regional Results Transmission (5-Year Initial License Fee is a COUNTY ONLY FEE) Annual Fee for Years 6-10	N/A	ES&S Software	\$22,700.00
ExpressLink (5-Year Initial License Fee)	N/A	ES&S Software	\$5,210 per county \$15,250.00
Ballot On Demand Items:			
Balotar Ballot-On-Demand System Includes: - Compact Printer w/Firmware - Laptop Computer - Printer/Software Training - Installation - Single Request Software (SRS) - eBalotar for Automated eMail Software - Multiple Request Software (MRS) - Shipping and Handling to Customer Loading Dock	5+ Years depending upon usage	OkiData Device with Special ES&S Features and Firmware	\$13,995.00
Additional Printer for Balotar BOD System (Includes Shipping and Handling to Customer Loading Dock)	5+ Years depending upon usage	OkiData Device with Special ES&S Features and Firmware	\$2,975.00



Balotar Ballot Processing Fee (Black Ink Only) See Note 2	N/A	ES&S Service Fee	\$0.45 per ballot
Balotar Ballot Processing Fee (Color Ink) See Note 2	N/A	ES&S Service Fee	\$0.55 per ballot
Election Set-Up Fee per Election Event	N/A	ES&S Service Fee	Remote Access: \$250.00 per election set-up + \$1.00 per unique PDF (up to 4 computers) \$40.00 per computer over 4 units On-Site: \$1,575.00 per day per person

Cost Table 4 Notes:

Note 1: Contractor has included pricing for the most commonly requested optional items and consumable items purchased from ES&S in support of the specific equipment offerings. There may be other items the Jurisdictions may want to purchase that are not listed above. Should a Jurisdiction decide to order any product not listed in our above pricing, ES&S will invoice the Jurisdiction at the then current price.

Note 2: Balotar Ballot Processing Fees include toner, waster toner boxes, drums, transfer belts, fusers, blank ballot stock, hardware break/fix maintenance, and consumables and blank ballot stock shipping and handling.

Note 3: Shipping and Handling is not including in pricing in Cost Table 4 unless specifically stated and will be billed as a separate line item on the invoice.

Note 4: Firmware/Software updates will be installed as part of a preventative maintenance visit. Should circumstances warrant installation prior to the next scheduled preventative maintenance service date, the updates will be installed on a date mutually agreed upon between ES&S and the County.

Note 5: Buy one get one FREE. For those Counties selecting ES&S as their vendor, and making a buying decision before June 30, 2017; ES&S will provide one free DS200 Blue Tote Bin/Ballot Storage Box for every DS200 Blue Tote Bin/Ballot Storage Box purchased at regular price (\$175.00 per unit).

Note 6: Regional Results Transmission is a software application that can be installed on any Windows 7 computer. It can be used to transmit results from a DS200 election stick directly to the county. It is very similar to using a DS200 with an internal wireless modem to transfer results, only instead of using an internal wireless modem, the stick with results is removed from the DS200 after poll closing and inserted into a computer running the Regional Results application. Regional Results processes the data on the stick and automatically transfers the results to the county. It does this by establishing a direct Secure File Transfer Protocol (SFTP) connection to the county's secure server.

Using Regional Results Transmission is not mandatory but has many helpful uses that could benefit Michigan counties and local jurisdictions. The first example involves a county that chooses not to use internal wireless modems in their DS200's. After the polls have been closed, the DS200 results sticks could be driven to the local jurisdiction's election headquarters. Using Regional Results, the locals could quickly and securely transmit all of their election results directly to the county just by inserting the sticks into the Regional Results computer. A second example involves Michigan Counties using the DS200 at their AV Counting Board locations, who could transmit results directly to the county using Regional Results. And finally, the Regional Results application can be used to supplement wireless modeming directly from the DS200's. Many of our customers who modem from the DS200 choose to set up a few "regional transmission sites" around their county. These locations are for emergency use only should the DS200 be unable to connect to a cellular tower due to a weak signal. In that situation, the pollworker removes the results USB stick from the DS200 and brings it to the nearest regional site, where the data can be securely transferred to the county using the Regional Results application.

Note 7: ExpressLink works with the ExpressVote Activation Card Printer. It is a software application that is typically used at the voter check in station. It is used to print a small header on the ExpressVote card that identifies the voter's ballot style. When inserted into the ExpressVote, the correct ballot style is automatically displayed on the screen without any assistance from a pollworker. If a county chooses not to use ExpressLink, voters would insert a completely blank card into the ExpressVote and the voter's correct ballot style must be selected on the touchscreen.



Cost Table 5 – EMS Network Configuration Options

COUNTY-PURCHASED COTS ITEMS

Counties plan to purchase the following items separately.

Note: For version numbers, please refer to **Exhibit 1 to Schedule A Federal Voting System Testing/Certification Matrix**. Version numbers depend on the certification of the system being installed. Also refer to **Exhibit 5, Recommended Infrastructure/Transmission Network for Upload of Unofficial Results on Election Night**

COTS Adobe Acrobat Standard v. XI
 COTS RMCOBOL v. 12.06
 COTS Symantec Endpoint Protection v. 12.1.4
 COTS Cerberus FTP Server v. 8.0.0.4
 COTS IPSwitch WS_FTP 12 v. 12.4.1
 COTS Kiwi Syslog Server v. 9.4.1
 COTS Microsoft .NET 3.5 v. 3.5
 COTS Windows 7 SP1
 COTS Windows Server 2008 R2 SP1
 COTS Cerberus SFT Server v.8.0.0.4
 COTS Cisco A5505 Firewall
 COTS WSUS Microsoft Windows Offline Update Utility 10.2.1
 COTS Symantec Endpoint Protection Intelligent Updater v. 12.1.4
 COTS RJ11 landline modem (DS200 analog modem)
 COTS Rapid Port 4 USB Modem Bank
 COTS AT&T, Sprint, Verizon Modem (DS200 wireless modem)
 COTS AT&T, Sprint, Verizon Broadband modem (Regional Results Transmission)
 COTS AT&T, Sprint, Verizon Hot Spot (Regional Results Transmission)

Election Management System PC Workstation Requirements - Minimum Configuration

Processor Dual Core (min.) v. N/A
 RAM 4 GB (min.), 8 GB recommended v. N/A
 Hard Disk 150 GB (min.) v. N/A
 Keyboard v. N/A
 Mouse v. N/A
 Monitor 1280x800 min. resolution (min.) v. N/A
 CD/DVD reader 16x (min.) v. N/A
 USB Ports x2 USB 2.0 (min.) v. N/A
 Report Printer Network Printer w/Printer Control Language (PCL) driver v. N/A
 Ethernet Port Network port v. N/A

Election Management System Server Requirements - Minimum Configuration

Processor Quad Core (min.) v. N/A
 RAM 4 GB (min.) v. N/A
 Hard Disk 320 GB (min.) v. N/A
 Keyboard v. N/A
 Mouse v. N/A



Monitor 1280x800 min. resolution (min.) v. N/A
CD/DVD reader 16x (min.) v. N/A
USB Ports x2 USB 2.0 (min.) v. N/A
Report Printer Network Printer w/Printer Control Language (PCL) driver v. N/A
Ethernet Port Network port v. N/A
Back up power supply (Universal Power Supply) 865 Watts/1500 VA output capacity v. N/A
Network Switch 1 GB throughput required v. N/A
ASA 5505 Security Appliance 10 Network Security Device v. N/A
AnyConnect Client Image ASA 5505 utility software v. N/A
Rapidport/4 USB Modem Bank Modem Bank v. N/A

System Utilities PC Requirements - Minimum Configuration

Processor Dual Core (min.) v. N/A
RAM 4 GB (min.) v. N/A
Hard Disk 150 GB (min.) v. N/A
Keyboard v. N/A
Mouse v. N/A
Monitor 1280x800 min. resolution (min.) v. N/A
CD/DVD reader 16x (min.) v. N/A
USB Ports x2 USB 2.0 (min.) v. N/A
Report Printer Network Printer w/Printer Control Language (PCL) driver v. N/A
Ethernet Port Network port v. N/A



ELECTION SYSTEMS & SOFTWARE, LLC

11208 John Galt Blvd.
Omaha, NE 68137

EVS 5.3.1.0 Reporting Only Standalone System Quote

August 16th, 2016

State of Michigan

Qty Ord.	Description	Price	Ext. Price
	EMS WORKSTATION		
1	DELL OPTIPLEX 5040 MINI (Desktop)	\$1620.00	\$1620.00
	• OptiPlex 5040 Mini Tower XCTO • Intel Core i5-6500 Processor (Quad Core, 6MB, 4T, 3.2GHz, 65W) • Mini Tower Processor Heatsink 65 Watt • W10P-DG7 DT 64 ENG/FRE/SPN • Microsoft Office 30 Day Trial • 8GB Single Channel DDR3L 1600MHz (8GBX1) • 3.5 inch 500GB 7200rpm Hard Disk Drive • AMD Radeon R5 340X, 2GB (DP, SL-DVI-I) • DVD+/-RW Bezel • PCIe card with serial and parallel port, Full Height • OptiPlex 5040 MT with 240W up to 85% efficient Power Supply (80Plus Bronze) • Dell KB216 Wired Multi-Media Keyboard English Black • Dell MS116 Wired Mouse, Black • Adobe Reader 11 • Waves Maxx Audio • Windows 10 OS Professional Recovery 64bit - DVD • Intel Core i5 Processor Label • Kace K1000 Express • Dell Limited Hardware Warranty Plus Service • ProSupport: Next Business Day Onsite 5 Years • ProSupport: 7x24 Technical Support, 5 Years • Dell 22 Monitor P2214H		
1	SYMANTEC ENDPOINT PROTECTION 12.1.4	\$46.67	\$46.67
1	UNITTERUPTABLE POWER SUPPLY (UPS) BATTERY BACKUP, 750 VA (Workstations) - <i>Optional</i>	\$140.00	\$140.00
	MISCELLANEOUS COMPONENTS		
1	OKI B721DN LED DIGITAL LASER DUPLEX PRINTER - <i>Optional</i>	\$1166.67	\$1166.67
1	OKI B721DN BLACK TONER – 25,000 PAGES - <i>Optional</i>	\$388.00	\$388.00
1	STARTECH 6' USB 2.0 A-B CABLE – <i>Optional</i>	\$4.33	\$4.33



	SERVICES		
1	OFF-SITE INSTALLATION AT AN ES&S FACILITY (per day rate)	\$1300.00	\$1300.00
	Order Total		\$4,665.67

Note 1: Pricing valid for 30 days due to fluctuating pricing in 3rd party hardware and software.

Note 2: Hardware and software configuration is subject to change based upon the final certified tabulation system provided to the State.

Note 3: Any applicable (City & State) sales taxes have not been included in pricing and are the responsibility of the customer.

Note 4: Shipping and Handling is not included in the Order Total and will be invoiced separately.

Note 5: Network Cabling is not included.

**ELECTION SYSTEMS & SOFTWARE, LLC**

11208 John Galt Blvd.
Omaha, NE 68137

EVS 5.3.1.0 Reporting Only with Wireless DS200 Modeming System Quote

August 16th, 2016

State of Michigan

Qty Ord.	Description	Price	Ext. Price
	DATA COMMUNICATION SERVER		
1	DELL POWEREDGE T430	\$6400.00	\$6400.00
	• PowerEdge T430 Server, No TPM • Chassis with up to 8, 3.5" Hot Plug Hard Drives, Tower Configuration • PowerEdge T430 Shipping • Intel® Xeon® E5-2620 v3 2.4GHz,15M Cache,8.00GT/s QPI,Turbo,HT,6C/12T (85W) Max Mem 1866MHz • 1 CPU Standard • 2133MT/s RDIMMs • (2) 4GB RDIMM, 2133MT/s, Single Rank, x8 Data Width • RAID 1+RAID 1 for H330/H730/H730P (2 + 2 HDDs or SSDs) • PERC H730 RAID Controller, 1GB NV Cache • (4) 1TB 7.2K RPM SATA 6Gbps 3.5in Hot-plug Hard Drive • On-Board Broadcom 5720 Dual Port 1Gb LOM • iDRAC8, Basic • DVD+/-RW, SATA, Internal • Casters for PowerEdge Tower Chassis • Power Saving Dell Active Power Controller • Dual, Hot-plug, Redundant Power Supply (1+1), 750W • (2) NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m), Power Cord, North America • Keyboard and Optical Mouse, USB, Black, English • Windows Server&#174; 2012R2,Standard Ed,Factory Inst,No MED,2SKT,2VM,NO CAL • Windows Server&#174; 2012R2,STD Ed,Media Kit w/Factory Inst ENT DGRD Images • 5-pack of Windows&#174; Server 2012 Device CALs (Standard or Datacenter) • 5 Year ProSupport and NBD On-site Service Dell Proactive Systems Management – Declined		
1	EXTERNAL CONNECTOR LICENSE (Connector License for Modeming)	\$2580.00	\$2580.00
1	DELL E2215HV 22" WIDE LED LCD VGA MONITOR	\$180.00	\$180.00
1	SYMANTEC ENDPOINT PROTECTION 12.1.4	\$46.67	\$46.67



1	UNITTERUPTABLE POWER SUPPLY (UPS) BATTERY BACKUP, 1500 VA (Servers) – <i>Optional</i>	\$700.00	\$700.00
1	CERBERUS FTP PRO 8.0.0.4 (DS200 Modeming)	\$654.67	\$654.67
	EMS FILE SERVER		
1	DELL POWEREDGE T430	\$6400.00	\$6400.00
	• PowerEdge T430, Intel Xeon E-24XX v2 Processors • PowerEdge T430 Server, No TPM • Chassis with up to 8, 3.5" Hot Plug Hard Drives, Tower Configuration • PowerEdge T430 Shipping • Intel® Xeon® E5-2620 v3 2.4GHz,15M Cache,8.00GT/s QPI,Turbo,HT,6C/12T (85W) Max Mem 1866MHz • 1 CPU Standard • 2133MT/s RDIMMs • (2) 4GB RDIMM, 2133MT/s, Single Rank, x8 Data Width • RAID 1+RAID 1 for H330/H730/H730P (2 + 2 HDDs or SSDs) • PERC H730 RAID Controller, 1GB NV Cache • (4) 1TB 7.2K RPM SATA 6Gbps 3.5in Hot-plug Hard Drive • On-Board Broadcom 5720 Dual Port 1Gb LOM • iDRAC8, Basic • DVD+/-RW, SATA, Internal • Casters for PowerEdge Tower Chassis • Power Saving Dell Active Power Controller • Dual, Hot-plug, Redundant Power Supply (1+1), 750W • (2) NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m), Power Cord, North America • Keyboard and Optical Mouse, USB, Black, English • Windows Server&#174; 2012R2,Standard Ed,Factory Inst,No MED,2SKT,2VM,NO CAL • Windows Server&#174; 2012R2,STD Ed,Media Kit w/Factory Inst ENT DGRD Images • 5-pack of Windows&#174; Server 2012 Device CALs (Standard or Datacenter) • 5 Year ProSupport and NBD On-site Service Dell Proactive Systems Management – Declined		
1	DELL E2215HV 22" WIDE LED LCD VGA MONITOR	\$180.00	\$180.00
1	SYMANTEC ENDPOINT PROTECTION 12.1.4	\$46.67	\$46.67
1	UNITTERUPTABLE POWER SUPPLY (UPS) BATTERY BACKUP, 1500 VA (Servers) - <i>Optional</i>	\$700.00	\$700.00
	EMS WORKSTATION		
2	DELL OPTIPLEX 5040 MINI (Desktop)	\$1620.00	\$3240.00
	• OptiPlex 5040 Mini Tower XCTO • Intel Core i5-6500 Processor (Quad Core, 6MB, 4T, 3.2GHz, 65W) • Mini Tower Processor Heatsink 65 Watt • W10P-DG7 DT 64 ENG/FRE/SPN • Microsoft Office 30 Day Trial • 8GB Single Channel DDR3L 1600MHz (8GBX1) • 3.5 inch 500GB 7200rpm Hard Disk Drive • AMD Radeon R5 340X, 2GB (DP, SL-DVI-I) • DVD+/-RW Bezel • PCIe card with serial and parallel port, Full Height		



	• OptiPlex 5040 MT with 240W up to 85% efficient Power Supply (80Plus Bronze) • Dell KB216 Wired Multi-Media Keyboard English Black • Dell MS116 Wired Mouse, Black • Adobe Reader 11 • Waves Maxx Audio • Windows 10 OS Professional Recovery 64bit - DVD • Intel Core i5 Processor Label • Kace K1000 Express • Dell Limited Hardware Warranty Plus Service • ProSupport: Next Business Day Onsite 5 Years • ProSupport: 7x24 Technical Support, 5 Years • Dell 22 Monitor P2214H		
2	SYMANTEC ENDPOINT PROTECTION 12.1.4	\$46.67	\$93.34
1	WS_FTP PRO IPSWITCH 12.4	\$68.00	\$68.00
2	UNITERRUPTABLE POWER SUPPLY (UPS) BATTERY BACKUP, 750 VA (Workstations) - <i>Optional</i>	\$140.00	\$280.00
	MISCELLANEOUS COMPONENTS		
1	OKI B721DN LED DIGITAL LASER DUPLEX PRINTER - <i>Optional</i>	\$1166.67	\$1166.67
1	OKI B721DN BLACK TONER – 25,000 PAGES - <i>Optional</i>	\$388.00	\$388.00
1	STARTECH 6' USB 2.0 A-B CABLE - <i>Optional</i>	\$4.33	\$4.33
1	CISCO ASA 5505 FIREWALL	\$489.33	\$489.33
1	D-LINK GIGABIT NETWORK SWITCH, 8 PORT	\$60.00	\$60.00
	SERVICES		
3	ON-SITE INSTALLATION	\$2300.00	\$6900.00
	Order Total		\$30,577.68

Note 1: Pricing valid for 30 days due to fluctuating pricing in 3rd party hardware and software.

Note 2: Hardware and software configuration is subject to change based upon the final certified tabulation system provided to the State.

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Note 4: Shipping and Handling is not included in the Order Total and will be invoiced separately.

Note 5: Network Cabling is not included.

**ELECTION SYSTEMS & SOFTWARE, LLC**

11208 John Galt Blvd.

Omaha, NE 68137

EVS 5.3.1.0 PYO with Wireless DS200 Modeming

Quote

August 16th, 2016

State of Michigan

Qty Ord.	Description	Price	Ext. Price
	DATA COMMUNICATION SERVER		
1	DELL POWEREDGE T430	\$6400.00	\$6400.00
	• PowerEdge T430 Server, No TPM • Chassis with up to 8, 3.5" Hot Plug Hard Drives, Tower Configuration • PowerEdge T430 Shipping • Intel® Xeon® E5-2620 v3 2.4GHz,15M Cache,8.00GT/s QPI,Turbo,HT,6C/12T (85W) Max Mem 1866MHz • 1 CPU Standard • 2133MT/s RDIMMs • (2) 4GB RDIMM, 2133MT/s, Single Rank, x8 Data Width • RAID 1+RAID 1 for H330/H730/H730P (2 + 2 HDDs or SSDs) • PERC H730 RAID Controller, 1GB NV Cache • (4) 1TB 7.2K RPM SATA 6Gbps 3.5in Hot-plug Hard Drive • On-Board Broadcom 5720 Dual Port 1Gb LOM • iDRAC8, Basic • DVD+/-RW, SATA, Internal • Casters for PowerEdge Tower Chassis • Power Saving Dell Active Power Controller • Dual, Hot-plug, Redundant Power Supply (1+1), 750W • (2) NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m), Power Cord, North America • Keyboard and Optical Mouse, USB, Black, English • Windows Server&#174; 2012R2,Standard Ed,Factory Inst,No MED,2SKT,2VM,NO CAL • Windows Server&#174; 2012R2,STD Ed,Media Kit w/Factory Inst ENT DGRD Images • 5-pack of Windows&#174; Server 2012 Device CALs (Standard or Datacenter) • 5 Year ProSupport and NBD On-site Service • Dell Proactive Systems Management – Declined		
1	EXTERNAL CONNECTOR LICENSE (Connector License for Modeming)	\$2580.00	\$2580.00
1	DELL E2215HV 22" WIDE LED LCD VGA MONITOR	\$180.00	\$180.00
1	SYMANTEC ENDPOINT PROTECTION 12.1.4	\$46.67	\$46.67



1	UNITTERUPTABLE POWER SUPPLY (UPS) BATTERY BACKUP, 1500 VA (Servers) - <i>Optional</i>	\$700.00	\$700.00
1	CERBERUS FTP PRO 8.0.0.4 (DS200 Modeming)	\$654.67	\$654.67
	EMS FILE SERVER		
1	DELL POWEREDGE T430	\$6400.00	\$6400.00
	• PowerEdge T430, Intel Xeon E-24XX v2 Processors • PowerEdge T430 Server, No TPM • Chassis with up to 8, 3.5" Hot Plug Hard Drives, Tower Configuration • PowerEdge T430 Shipping • Intel® Xeon® E5-2620 v3 2.4GHz,15M Cache,8.00GT/s QPI,Turbo,HT,6C/12T (85W) Max Mem 1866MHz • 1 CPU Standard • 2133MT/s RDIMMs • (2) 4GB RDIMM, 2133MT/s, Single Rank, x8 Data Width • RAID 1+RAID 1 for H330/H730/H730P (2 + 2 HDDs or SSDs) • PERC H730 RAID Controller, 1GB NV Cache • (4) 1TB 7.2K RPM SATA 6Gbps 3.5in Hot-plug Hard Drive • On-Board Broadcom 5720 Dual Port 1Gb LOM • iDRAC8, Basic • DVD+/-RW, SATA, Internal • Casters for PowerEdge Tower Chassis • Power Saving Dell Active Power Controller • Dual, Hot-plug, Redundant Power Supply (1+1), 750W • (2) NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m), Power Cord, North America • Keyboard and Optical Mouse, USB, Black, English • Windows Server&#174; 2012R2,Standard Ed,Factory Inst,No MED,2SKT,2VM,NO CAL • Windows Server&#174; 2012R2,STD Ed,Media Kit w/Factory Inst ENT DGRD Images • 5-pack of Windows&#174; Server 2012 Device CALs (Standard or Datacenter) • 5 Year ProSupport and NBD On-site Service Dell Proactive Systems Management – Declined		
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1	UNITTERUPTABLE POWER SUPPLY (UPS) BATTERY BACKUP, 1500 VA (Servers) - <i>Optional</i>	\$700.00	\$700.00
	EMS WORKSTATION		
2	DELL OPTIPLEX 5040 MINI (Desktop)	\$1620.00	\$3240.00
	• OptiPlex 5040 Mini Tower XCTO • Intel Core i5-6500 Processor (Quad Core, 6MB, 4T, 3.2GHz, 65W) • Mini Tower Processor Heatsink 65 Watt • W10P-DG7 DT 64 ENG/FRE/SPN • Microsoft Office 30 Day Trial • 8GB Single Channel DDR3L 1600MHz (8GBX1) • 3.5 inch 500GB 7200rpm Hard Disk Drive • AMD Radeon R5 340X, 2GB (DP, SL-DVI-I) • DVD+/-RW Bezel • PCIe card with serial and parallel port, Full Height		



	• OptiPlex 5040 MT with 240W up to 85% efficient Power Supply (80Plus Bronze) • Dell KB216 Wired Multi-Media Keyboard English Black • Dell MS116 Wired Mouse, Black • Adobe Reader 11 • Waves Maxx Audio • Windows 10 OS Professional Recovery 64bit - DVD • Intel Core i5 Processor Label • Kace K1000 Express • Dell Limited Hardware Warranty Plus Service • ProSupport: Next Business Day Onsite 5 Years • ProSupport: 7x24 Technical Support, 5 Years • Dell 22 Monitor P2214H		
2	SYMANTEC ENDPOINT PROTECTION 12.1.4	\$46.67	\$93.34
1	WS_FTP PRO IPSWITCH 12.4	\$68.00	\$68.00
2	ADOBE ACROBAT STANDARD XI	\$401.33	\$802.66
2	UNITTERUPTABLE POWER SUPPLY (UPS) BATTERY BACKUP, 750 VA (Workstations) - <i>Optional</i>	\$140.00	\$280.00
	MISCELLANEOUS COMPONENTS		
1	OKI B721DN LED DIGITAL LASER DUPLEX PRINTER - <i>Optional</i>	\$1166.67	\$1166.67
1	OKI B721DN BLACK TONER – 25,000 PAGES - <i>Optional</i>	\$388.00	\$388.00
1	STARTECH 6' USB 2.0 A-B CABLE – <i>Optional</i>	\$4.33	\$4.33
1	CISCO ASA 5505 FIREWALL	\$489.33	\$489.33
1	D-LINK GIGABIT NETWORK SWITCH, 8 PORT	\$60.00	\$60.00
	SERVICES		
3	ON-SITE INSTALLATION	\$2300.00	\$6900.00
	Order Total		\$31,380.34

Note 1: Pricing valid for 30 days due to fluctuating pricing in 3rd party hardware and software.

Note 2: Hardware and software configuration is subject to change based upon the final certified tabulation system provided to the State.

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**ELECTION SYSTEMS & SOFTWARE, LLC**

11208 John Galt Blvd.
Omaha, NE 68137

EVS 5.3.1.0 PYO Standalone System**Quote**

August 16th, 2016

State of Michigan

Qty Ord.	Description	Price	Ext. Price
	EMS WORKSTATION		
1	DELL OPTIPLEX 5040 MINI (Desktop)	\$1620.00	\$1620.00
	• OptiPlex 5040 Mini Tower XCTO • Intel Core i5-6500 Processor (Quad Core, 6MB, 4T, 3.2GHz, 65W) • Mini Tower Processor Heatsink 65 Watt • W10P-DG7 DT 64 ENG/FRE/SPN • Microsoft Office 30 Day Trial • 8GB Single Channel DDR3L 1600MHz (8GBX1) • 3.5 inch 500GB 7200rpm Hard Disk Drive • AMD Radeon R5 340X, 2GB (DP, SL-DVI-I) • DVD+/-RW Bezel • PCIe card with serial and parallel port, Full Height • OptiPlex 5040 MT with 240W up to 85% efficient Power Supply (80Plus Bronze) • Dell KB216 Wired Multi-Media Keyboard English Black • Dell MS116 Wired Mouse, Black • Adobe Reader 11 • Waves Maxx Audio • Windows 10 OS Professional Recovery 64bit - DVD • Intel Core i5 Processor Label • Kace K1000 Express • Dell Limited Hardware Warranty Plus Service • ProSupport: Next Business Day Onsite 5 Years • ProSupport: 7x24 Technical Support, 5 Years • Dell 22 Monitor P2214H		
1	SYMANTEC ENDPOINT PROTECTION 12.1.4	\$46.67	\$46.67
1	ADOBE ACROBAT STANDARD XI	\$401.33	\$401.33
1	UNITTERUPTABLE POWER SUPPLY (UPS) BATTERY BACKUP, 750 VA (Workstations) - <i>Optional</i>	\$140.00	\$140.00
	MISCELLANEOUS COMPONENTS		
1	OKI B721DN LED DIGITAL LASER DUPLEX PRINTER - <i>Optional</i>	\$1166.67	\$1166.67
1	OKI B721DN BLACK TONER – 25,000 PAGES - <i>Optional</i>	\$388.00	\$388.00



1	STARTECH 6' USB 2.0 A-B CABLE – <i>Optional</i>	\$4.33	\$4.33
	SERVICES		
1	OFF-SITE INSTALLATION AT AN ES&S FACILITY (per day rate)	\$1300.00	\$1300.00
	Order Total		\$5,067.00

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ELECTION SYSTEMS & SOFTWARE, LLC CONTRACT No. 071B7700120

Exhibit 2, Attachment 1.1 Voting System

HARDWARE

Technical Requirements

Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
A. Ballot Counter /Tabulator				
1.1.A.1	The Contractor must provide a complete description of the voting system to be provided under this Contract, including all components, make/model, covering all functionality and specific abilities of the system to meet all requirements listed in this Contract. The Contractor must provide a Digital optical scan system.	Y		DS200 The DS200 scanner/tabulator uses a high resolution image scanner with state-of-the art, precise ballot sensors to scan both sides of a ballot simultaneously. The DS200 was designed to meet or exceed all EAC Voluntary Voting Systems Guidelines (VVSG) 2005 requirements. Our solution also includes Election Reporting Manager (ERM) software that will provide you instantaneous results that can be printed or displayed on a monitor or your website. The result of more than 36 years of experience designing poll-based scanning technology, the DS200 combines the security, auditability, and voter confidence of paper ballot voting with the increased accuracy and flexibility of a digital image scanner.
1.1.A.1 continued				EXCEEDS ACCURACY STANDARDS DS200 digital scanning technology provides exceptional mark recognition capabilities. Our Intelligent Mark Recognition (IMR™) and Positive Target Recognition & Alignment Compensation (PTRAC™) routines are patented and powerful and the basis for our certified products. This unique technology is available only on Contractor's products. IMR™ and PTRAC™ work together to positively track and pinpoint target locations, accommodating for ballot s inserted at irregular angles, smudges, and stray ballot marks to create unparalleled accuracy in determining voter intent. Because of this improved accuracy, fewer ballots need to be manually reviewed or adjudicated. This makes elections smoother, faster, less costly and with less chance for debate and controversy. Unlike less sophisticated vote scanners, the DS200 using PTRAC™ and IMR™ is not fooled by erasures and other stray marks and is not confused by lighter or thinner marks that would be missed by more primitive threshold technology.

Exhibit 2, Attachment 1.1 Voting System
HARDWARE
Technical Requirements

Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.1				<i>OFFERS GREATEST EASE OF USE</i> The DS200's unique lid-up, power-on approach allows poll workers to easily open polls. During voting, the device features messages and prompts visually on its interactive 12-inch color LCD screen with accompanying audible signals. All DS200 messages for poll workers and voters are displayed in easily understood text.
<i>continued</i>				<i>BALLOT IMAGING SAFEGUARDS</i> The system captures and retains digital images and cast vote records of every scanned ballot for auditing and adjudication. Contractor does not alter a single retained and captured digital image.
				<i>EQUIPMENT SPECIFICATIONS</i> • DS200 scanner/tabulator, Version 1.3, 23 pounds, 14" x 16" x 5.5" • DS200 ABS plastic carrying case (included with plastic ballot box) 29 pounds, 27" x 24" x 8"

Exhibit 2, Attachment 1.1 Voting System
HARDWARE
Technical Requirements

Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.1 <i>continued</i>				The included DS200 carrying case made of durable, scratch-resistant Acrylonitrile Butadiene Styrene (ABS) plastic materials features roller wheels and a telescoping handle. This durable construction enables each unit to withstand the effects of frequent loading, unloading, assembly and disassembly. The ballot box is also constructed with ABS plastic materials, steel-reinforced doors, and four (4) swivel caster wheels, two which are lockable. Convenient side handles are designed to enable election workers to pull, rather than push, the ballot box, which provides complete control, therefore, lessening the chance of a tip over. The ballot box also includes an anchor loop that would allow it to be tied or tethered to prevent the unit from tipping during transport.  Another way to prevent the ballot box from tipping over is to place it as deep as possible into the deepest part of the hatch or truck bed and use moving straps or bungee cords across the top and around the side of the equipment, securing the ends of each strap or cord to the hatch or truck bed. Lighter-weight items should be loaded last. With the auxiliary bin removed, the plastic ballot box can be nested five high. The top portion of the plastic ballot box also serves as the included carrying case. When separated from the ballot box, the carrying case can be stacked upright on its base for efficient storage.

Exhibit 2, Attachment 1.1 Voting System
HARDWARE
Technical Requirements

Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.1 <i>continued</i>				DS450 The DS450 is a world-class central count scanner/tabulator offering digital processing to save you time. Contractor's patented state-of-the-art technology eliminates the need for manual voter intent and secures election accuracy. More than 36 years' experience in the elections industry went into the design and construction of the ES&S DS450, making it the most reliable central scanner on the market. The DS450 enhances the voting experience for voters and officials alike. Because the DS450 handles folded ballots smoothly, it is perfect for processing mailed-in ballots or any time you need a centralized scanner/tabulator. The DS450 is slated to enter EAC certification in June of 2016. SPEED The DS450 scans ballots of multiple sizes and is able to handle folded or roughed-up ballots with ease. For example, it scans double-sided ballots at the rate of 50-91 per minute, with next-to-no ballot jams. Faster results can mean lower costs. EASE OF USE The durable 15-inch color touch screen and user-friendly interface walk you through every step of the process. It is as simple as placing a stack of ballots on the scanner and pressing START. FLEXIBILITY With three (3) separate sorter bins, you can determine whether you want to set apart specific types of ballots for further review. Let the DS450 handle separating write-in votes, overvotes, or blank ballots - all without missing a beat.
1.1.A.1 <i>continued</i>				ACCURACY: Contractor's patented Intelligent Mark Recognition (IMR™) and Positive Target Recognition & Alignment Compensation (PTRAC™) technology ensure ballots are read accurately and consistently, eliminating manual adjudication time. PTRAC™ corrects for variations in ballot alignment and printing, allowing the digital scanners to zero in on the marking area. PTRAC™ digitally subtracts the outline of the voting target to read only the voter's mark. Our competitors' optical scanners require you to set an arbitrary pixel threshold to determine what counts as a mark. The DS450 does the work for you. To determine which marks were intentional, sophisticated algorithms analyze not only the mark's darkness (pixel density) but also its directionality. Unlike other scanners, the DS450 is not fooled by erasures or other stray marks, and is not confused by lighter or thinner marks that would be missed by a simple threshold. IMR™ means faster results for you and assurance for voters that their votes were counted as they intended.

Exhibit 2, Attachment 1.1 Voting System
HARDWARE
Technical Requirements

Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.1 <i>continued</i>				SECURITY Safeguard your election data with the DS450's system integrity, electronic audits, data encryption, and digital signatures. - o Data and system validation: Data encryption and signing ensure integrity of election results. - o Strong physical access controls: locks and seals secure data ports and critical hardware components. - o Role-based access codes allow varied levels of operator and administrator access. - o Full logging creates a complete audit record you can print or view electronically. Motorized input tray provides constant pressure as large stacks of ballots are run through the machines. Multiple paper rollers and counter-rotating belts apply constant control to folded ballots to ensure uninterrupted scanning, with virtually no double feeds and reliable digital image capture. C-curve design in the DS450 enable lightning-quick scanning and smooth ballot flow packaged in compact and easily-maneuvered machines. The open design of the transport paths makes it easy to clear ballot jams when they occur. Motorized output tray facilitates the separation of ballots into three (3) output stacks – you control whether the DS450 separates overvotes, write-in votes, and blank ballots for further review.
1.1.A.1 <i>continued</i>				USER INTERFACE DETAILS: The DS450 can be completely configured using ES&S' Electionware software, which downloads the scanner's configuration settings as part of the digitally signed and encrypted election definition. These settings also can be configured directly on the machine through access code-protected administration screens. Status and settings are clearly displayed on the large touch-screen display and the user interface prompts the operator at every step, greatly reducing learning time as well as questions and errors. The DS450 user interface features five (5) menus: Scanning, Election, Reports, System, and Hardware. 1. Scanning. The Scanning menu is used to scan ballots and clear the ballot transport path. 2. Election. The Election menu is used to load an election definition, view election setup information, export election results, and set scanner configuration options. 3. Reports. The Reports menu is used to print and preview the zero, results, batch/bin, precincts processed and system readiness reports: 4. System. The System menu is used to set the date and time, learn about the firmware version and other information, and review and set user access. 5. Hardware. The Hardware menu is used to calibrate the DS450's touch screen, print test pages to the report and audit log printers, calibrate the camera and other camera settings.

Exhibit 2, Attachment 1.1 Voting System
HARDWARE
Technical Requirements

Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.1	<i>continued</i>			ExpressVote The ExpressVote® Universal Voting Device enables voters to vote any ballot in the jurisdiction without the need for traditional paper ballots, saving Michigan taxpayers money. The ExpressVote combines paper-based voting with touch screen technology to create an innovative breakthrough in voting solutions. The ExpressVote is ideal for in-person absentee voting, Election Day voting in precincts and vote centers. Election officials no longer have to guess the number of ballots to print — instead, an inexpensive thermal card stock/ballot determines the ballot style presented on the touch screen. The ExpressVote system can serve every eligible voter, including those with special needs. The ExpressVote was developed with universal design principles applied for use by all voters, with or without visual impairments, hearing issues, or need for physical accommodations. As a fully compliant ADA (Americans with Disabilities Act) voting solution, ExpressVote enables each voter to cast his or her ballot independently. THERMAL CARD STOCK/BALLOTS The voter receives a thermal card/ballot to begin the process. Election officials can choose from three options: • If only one ballot is programmed for the election, a blank card activates the ballot. • If the election has multiple ballots, a blank card requires a poll worker to select the correct ballot for the voter. • If the election has multiple ballots, a card with an activation barcode displays the correct ballot for the voter.

Exhibit 2, Attachment 1.1 Voting System
HARDWARE
Technical Requirements

Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.1 <i>continued</i>				VERIFIABLE PAPER RECORD After all selections are made, a human- and machine-readable paper record is produced, including text and an optical scan barcode. All votes are digitally scanned for tabulation on ES&S' DS200 and DS450 devices. EASY TO USE AND SET UP The easy setup and shutdown process makes the ExpressVote an ideal device for poll workers. The intuitive design offers streamlined simplicity for all voters, poll workers and election staff. There is no expensive technology to manage or program. The ExpressVote is small, lightweight at less than 20 pounds, and easy to carry. CONTROLLED AND REDUCED COSTS Traditional ballot printing costs can be reduced significantly by eliminating the need and expense for pre-printed paper ballots. With low operation and maintenance fees, budgeting for recurring expenses becomes easy with the ExpressVote. The system does not use ink, toner, or paper rolls and consumes 70 percent less paper than traditional ballots. INNOVATIVE DESIGN Complete and total independence is maintained while voters cast their own records. Voters review a summary page and can make changes before casting ballots. A voter's selection changes will not spoil the voting session. The ExpressVote system produces a verifiable paper record for each voter that is digitally scanned for tabulation. ExpressVote neither stores nor tabulates vote counts. The system is always secure – the election definition USB memory device is protected in a locked environment.
1.1.A.1 <i>continued</i>				Compatible with the DS200 With an innovative design for accessibility, voters can place ballots in the DS200 for scanning and tabulating. The interconnected touch screen and navigational keypad buttons are used to complete all required operations. On the touch screen interface, various colors and accessibility-enhancing effects have been selected to prompt and guide the voter. These digital buttons meet all applicable guidelines regarding size and readability. The navigational keypad has been tested and modified through consultation with special needs groups. The keys are arranged to allow for an intuitive voting session. Each key has both Braille and printed text labels designed to indicate function and a related shape to help the voter determine its use. Regardless of whether the voter uses the touch screen or keypad interface, changes can easily be made throughout the voting process by simply navigating back to the appropriate screen and selecting the change. Contractor has a strong development history of innovative solutions for people with disabilities. From concept to construction, Contractor adheres to industry-leading standards for quality and design. ExpressVote meets and exceeds the more rigorous 2005 U.S. Voluntary Voting Systems Guidelines (VVSG) for usability, accessibility, and security requirements.

Exhibit 2, Attachment 1.1 Voting System
HARDWARE
Technical Requirements

Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.1				ACCESSIBILITY
<i>continued</i>				The ExpressVote allows blind, low-vision, and limited-dexterity voters to privately listen to instructions and selections at a volume, tone, and speed that will meet their unique needs. They cast their votes unassisted, thereby maintaining their privacy and anonymity.
				Multiple user interfaces that include touch screen, Braille-embossed keypad, sip-and-puff tube, and foot pedal or other two-way switch.
				Audio voting session via text-to-speech or .wav files.
				Ability for voter to select speed, tone, and volume.
				High-visibility on-screen ballots.
				Voter-selected font size and contrast settings.
				Verifiable vote record — Allows jurisdictions to maintain hard copies of vote records marked on ADA-compliant systems by marking paper record used for tabulating by the DS200 digital precinct scanner/DS450 central scanner/tabulator, enabling independent verification of paper ballots.

**Exhibit 2, Attachment 1.1 Voting System
HARDWARE
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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.2	The Contractor's voting system hardware shall be new. Refurbished or used equipment will not be accepted.	Y		All hardware equipment will be new and include the latest versions of firmware/software for the certified system.
1.1.A.3	Replacement parts shall be readily available.	Y		Replacement parts are readily available. Contractor's strong financial standing, vast supplier relationships, large customer base, and extensive research and development capability provide a foundation for long-term availability of our products and parts for our customers. Because Contractor designs and owns all rights to the design and manufacturing of the DS200, DS450, and ExpressVote units, tighter control is possible than allowed by dealing with large commercial off-the-shelf (COTS) vendors. Contractor uses long-life, industrial components that can allow up to seven (7) years of general availability and much longer with end of life buying arrangements. To control the availability of ES&S-certified COTS parts, ES&S requires that our approved vendors agree to the following: • Ship ES&S-only COTS items that have been unmodified from the configuration in which it was initially certified (to Federal and State levels) with ES&S systems. • Notify Contractor at least three months in advance of any changes to be made to COTS item's configuration as it was originally certified (to State and Federal levels) with ES&S systems. • Allow Contractor to place a Purchase Order for a last time buy. • Additionally, any vendor who supplies component or sub-assemblies for an ES&S system must meet the following requirements to maintain good standing on the ES&S Approved Vendor List: • Provide Contractor an opportunity to place a Purchase Order for a last time buy. • Prior to approval on an Approved Vendor List, inform Contractor of its roadmap for transition of components/subassemblies to meet RoHS standards. Upon notification of an EOL component/subassembly, Contractor will follow our Engineering Change Order (ECO) process flow to implement the change and notify state election officials, who will then determine if the ECO is de minimis, or minimal, or requires certification for the changed component/subassembly.

**Exhibit 2, Attachment 1.1 Voting System
HARDWARE
Technical Requirements**

Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.4	The Contractor's system shall permit the voter to verify the votes selected on the ballot in a private and independent manner, before the ballot is cast and counted.	Y		DS200 Depending on the election definition programming, the voter has the opportunity to review the paper ballot to confirm the selections chosen before the voter's ballot is cast into the DS200. If any ballot handling exceptions are detected by the DS200, the voter will be given the opportunity to cast the ballot as is, or return the ballot to the voter for correction. If the voter opts to cast as is, the DS200 will query the voter to "Accept". When the ballot is accepted by the voter, a text message is displayed to the voter that states, "Thank you for voting. Your ballot has been counted." In the case of ballots that cannot be read by the scanner because they are damaged or are invalid for the election or poll site, the ballot is returned to the voter without the option of casting the unread ballot. ExpressVote Before a voter completes the voting session, the ExpressVote provides a summary page with the same language and interface options the voter used to make vote selection. The summary page allows the voter to verify the selections made and even change their choices before the selections are printed on Vote Summary Card. The ExpressVote has an optional post-print verification that allows a voter to visually and audibly validate the data that is read off the marked card before it is cast. Voters may also reinsert the voted card into the ExpressVote and have the selections displayed or read back using the full assistive capabilities. The system produces a verifiable paper record for each voter that is digitally scanned for tabulation in the DS200 or DS450.
1.1.A.5	The system shall provide the voter with an opportunity (in a private and independent manner) to change the ballot or correct any error before the ballot is cast and counted.	Y		DS200 The voter has the opportunity to review the paper ballot to confirm the selections chosen before the voter's ballot is cast into the DS200. If any ballot handling exceptions are detected by the DS200, the voter can be given the opportunity to cast the ballot as is, or return the ballot to the voter for correction. If the voter opts to cast as is, the DS200 will query the voter to "Accept". When the ballot is accepted by the voter, a text message is displayed to the voter that states, "Thank you for voting. Your ballot has been counted." ExpressVote Before a voter completes the voting session, the ExpressVote provides a summary page with the same language and interface options the voter used to make vote selection. The summary page allows the voter to verify the selections made and even go back and change their choices before the selections are printed on Vote Summary Card. The ExpressVote has an optional post-print verification that allows a voter to visually and audibly validate the data that is read off the marked card before it is cast. Voters may also reinsert the voted card into the ExpressVote and have the selections displayed or read back using the full assistive capabilities. The system produces a verifiable paper record for each voter that is digitally scanned for tabulation in the DS200 or DS450.

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.6	The system shall produce zero printouts before each election and precinct totals printouts at the close of the polls	Y		DS200 The State of Michigan can easily program the election so certain DS200 reports are generated automatically when the poll is opened and closed. Reports or additional copies can also be accessed from the Reports menu. • Poll Opening: the DS200 prints the Ballot Status Accounting and Zero reports. • Poll Closing: the DS200 generates a variety of results reports depending on the options configured for your election definition. The scanner may automatically print reports, including precinct totals, when you close the polls or you can manually select reports from the POLLS CLOSED screen. DS450 Before ballots are scanned on the DS450 scanner, a Zero Report can be generated when no ballots have been scanned. This provides a clear indication that the DS450 has been cleared for the election. Results Reports can be generated for public reporting or with additional detail required by administrators at both an election level or at a vote center. Contractor's Election Reporting Manager (ERM) is used to convert data from Contractor's DS450 tabulator into formatted election reports that can be printed. ERM Contractor's ERM module can also print zero reports and results reports.

Exhibit 2, Attachment 1.1 Voting System
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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.7	The system shall permit recounts to be conducted pursuant to the Michigan Election Law (MEL).	Y		Recounts may be accomplished in any manner allowable under Michigan Election Law 168.871: by a manual tally of paper ballots, tabulation of ballots on a computer using software designed to count only the office or ballot question subject to the recount, or tabulation of ballots on a computer using the same software used in the precinct on Election Day. The paper ballot utilized with the DS200 is the voter-verifiable paper record of all votes cast and provides an audit trail that is available to jurisdictions in the event a recount, including manual recount, is required. In addition to scanning paper ballots, the respective DS200 USB memory devices also retain a digital image of each ballot cast along with the associated vote records, which also can be used for recounts and adjudication. It is possible to turn off the ballot image storage feature. Disabling this feature equates to time savings in the millisecond range, which is unnoticeable to the user. The Electionware Election Management System can quickly identify the precincts and ballot styles associated with the recounted contest. Electionware software provides a powerful means for restricting the election definition to a subset of contests or precincts specified for a particular recount. This definition can be loaded on the DS200, allowing for sorting and/or recounting of the ballots in question as permitted under a jurisdiction's election law.
1.1.A.7 <i>continued</i>				Option No. 1 applies to current Michigan Election Law. However, Contractor has outlined several additional options available with their solution should laws or procedures change to permit their use at any given time. 1. A new removable USB memory device can be programmed for a polling location. The ballots can be rerun on the same device as originally used in the polling location and the results tapes compared. 2. The removable USB memory device used in a DS200 on Election Day can be cleared and the ballots rerun. The results tapes from both ballot tabulation runs can be compared side by side to the actual Election Day results tape. 3. If a DS450 is available, it can be used to rerun the ballots from the polling location and save processing time. Results reports from the DS450 can be compared to the DS200 tapes. 4. Standard paper ballot processing hand counting methods would be used for manual recounts. 5. In addition, the results media can be loaded in Election Reporting Manager (ERM) for more results reporting functionality.

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.7 <i>continued</i>				The removable USB memory device used in a DS200 on Election Day can be cleared and the ballots rerun. To clear the USB memory device: 1. If the DS200 scanner is turned off, use the key to open the access door. If you removed the USB memory device, reinsert the USB memory device and turn on the DS200. 2. The Enter Election code screen appears. Enter your code, then press Accept. After the Configuration Report prints, the Poll Closed screen appears. 3. Press Re-Open Poll. The Enter Override Code screen appears. 4. Enter the code assigned to reopen the polls. 5. Press Accept. 6. Press Clear Votes. 7. Press Clear Votes & Continue. The Clear Votes screen appears. 8. Press Go to Open for Voting if you want to proceed with opening the polls. Press Report Options if you want to view the available reports or press Don't Open Turn Off to shut down the scanner. 9. Press Open Poll to open the polls. The Ballot Status Accounting Report and Zero Reports are generated. 10. The Poll is ready to be opened. 11. Press Go to Voting Mode. 12. Close and lock the access panel. After you remove the key, the DS200 scanner is ready to re-scan the ballots.
1.1.A.8	The system shall alert voters to any and all voter/ballot errors with clear language describing the error, before accepting the ballot for tabulation. Any notification to the voter during the process of casting a vote must be private and must indicate whether the ballot has been tabulated.	Y		DS200 The DS200's interactive color LCD touch screen provides concise, easily understandable voting directions/prompts for under-vote, over-vote, cross-over vote and blank ballot flags per the jurisdiction's settings. No staff explanation is required. Alerts are provided on screen in plain text and, depending on the election definition, an audible warning signal may sound. When, an error message is detected on the ballot, the DS200 will retain the ballot thereby maintaining voter's privacy. The DS200 then provides step-by-step instructions on screen for resolving the exception. The voter may return or accept the ballot at this time. The screen clearly indicates whether or not the ballot has been tabulated. ExpressVote The ExpressVote alerts voters to any and all voter/ballot errors with clear language on screen or audibly. Voter's privacy is maintained in three ways: 1) Setup of the ExpressVote (ie. facing away from the public) 2) By utilization of the ExpressVote privacy screen, which is included in Contractor's solution at no additional cost. 3) Voters may turn off the screen at any time during a voting session, which enables voters to request assistance without allowing the poll worker to see their selections.

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.9	The system shall provide for tabulation of votes cast in split precincts, where all voters are not voting the same ballot format.	Y		Contractor's system includes the DS200 precinct scanner, DS450 central count scanner, ExpressVote ADA device, as well as Electionware and Election Reporting Manager software. This system is capable of scanning, counting and recording ballots cast in split precincts and easily integrating the tallies into all election results and reports. The system will allow up to 99 splits for each precinct. Normally, a ballot style is created for every precinct and split in the election. The DS450 central count scanner is capable of reading, recording and storing results from up to 9,990 precincts and 9,900 ballot styles on a single USB memory stick. The cast vote record and digitized ballot images for all scanned ballots, as well as the election definition and audit logs, were exported and saved to a single DS450 USB memory device. In addition, Contractor designs voting systems to tabulate ballots for the following types of voting: • Closed primaries • Open primaries • Partisan offices • Non-partisan offices • Write-in voting • Primary presidential delegation nominations • Ballot rotation • Straight party voting • Cross-party endorsement • Recall issues (with options) • Provisional or challenged ballots

**Exhibit 2, Attachment 1.1 Voting System
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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.10	The system shall provide printed records regarding the opening and closing of the polls to include identification of the election, including opening and closing date and times; identification of the unit; identification of ballot format; identification of each candidate and/or issue, verifying zero start.	Y		The system can automatically produce printed records with comprehensive information regarding poll opening and closing. The Configuration report prints at start-up and includes identification of the election by name, date, and qualification code; times for open and close; unit serial number, and ballot format ID. A Zero Report and Ballot Status and Accounting Report (optional if selected in Electionware programming) print when POLLS OPEN is selected. The Zero Report validates no ballots have been tabulated and the Ballot Status and Accounting Report shows that no votes have been tabulated for each candidate and issue individually. See Exhibit 7 to Schedule A, Sample Reports. The DS200 can produce the following reports: • Configuration Reports may be programmed to print automatically upon startup or on demand by the poll worker from the Reports Option prior to opening the polls. • Zero Totals Report prints automatically upon startup. Additional copies can be programmed to print automatically if required by jurisdiction or may be printed upon demand from the Reports Option prior to opening the polls. • Ballot Status Accounting Report can be programmed to print automatically upon startup or may be printed upon demand from the Reports Option prior to opening the polls. • The Event (Audit) Log Report lists all of the scanner events that occur from the time you load your election definition USB memory device into the scanner until you remove the USB memory device after the election is complete. The Event (Audit) Log Report may be programmed to print automatically upon startup and, from the Reports Option menu, prior to opening polls or after the polls close. • The Results Report prints automatically upon poll closing and may be provided in election summary or precinct formats. Additional copies can be programmed to print automatically if required by jurisdiction and may be printed upon demand from the Reports Option menu after polls close and prior to shut down.

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.11	The system shall be easily portable and be transportable without damage to internal circuitry. The Contractor shall provide height and weight specifications of all components, as well as any features related to portability and ease of transport.	Y		DS200 - Portability The DS200 requires the same special handling and transportation considerations as would be afforded to most electronic and computer equipment. The DS200 has been tested and designed to meet specific Voluntary Voting Systems Guidelines (VVSG) minimum performance standards that simulate exposure to physical shock and vibration associated with frequent handling (ex. loading, unloading, stacking, and heavy use) and transportation by surface and air common carriers. The DS200 has been designed with materials and internal components and circuitry to achieve a life of at least 10 years. The DS200's internal components are assembled in a rugged, impact resistant GE C6600 – Polycarbonate Acrylonitrile Butadiene Styrene (ABS) plastic housing. The terminal's outer coloring is integrated into the plastic to prevent chipping or scratching on the outside surface. ES&S recommends the DS200 be stored and transported in its hard shell carrying case whenever possible to further protect against dust, moisture and vibration. The lockable carrying case for the DS200 is capable of withstanding real world impacts, shocks, and vibrations that are experienced when transporting units to the poll site. The carrying case includes roller wheels and a telescoping handle to assist in the easy movement of the DS200 to and from the polling place. Contractor expects that the DS200 will last much longer than 10 years when operated under normal operating and storage conditions.

Exhibit 2, Attachment 1.1 Voting System
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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response																		
1.1.A.11 <i>continued</i>				The DS200 may be used with a plastic ballot box: The DS200 plastic ballot box is compact, portable, and easy to move around the warehouse or polling place. It includes handles and four heavy duty caster wheels; two ballot compartments, one for official ballots and one for auxiliary ballots; and may be nested five (5) high for ease of storage and transportation. The plastic ballot box does not contain a powered diverter to segregate write-in ballots. When using the plastic box, ballots would need to be separated by hand to adjudicate write-in voter intent. It is made of durable ABS (Acrylonitrile Butadiene Styrene) plastic material with steel-reinforced doors and can absorb shocks and impacts associated with all modes of surface transportation. All doors are lockable and sealable. Convenient side handles are designed to enable election workers to pull, rather than push, the ballot box, which provides complete control, therefore, lessening the chance of a tip over. The ballot box also includes an anchor loop that would allow it to be tied or tethered to prevent the unit from tipping during transport. The central scanner is designed to remain in a central location. Jurisdictions that use the central scanner transport ballots from various polling places to a central count location where the ballots are scanned and tabulated. Nonetheless, when the DS450 needs to be moved, it is constructed using rugged, durable materials designed for transport to and from storage and operating locations. The unit rests on a wheeled cart that stores all system components, including the scanner/tabulator, printers, backup power supply and supplies drawer. The wheels lock during operation.																		
1.1.A.11 <i>continued</i>				ExpressVote - Portability The ExpressVote can withstand frequent loading and unloading, stacking, assembling, disassembling, reassembling, and heavy use, without damage to internal circuitry. The ExpressVote comes with a soft-sided carrying case and may be stacked eight (8) units high in storage. DS200 – DIMENSIONS AND WEIGHT <table><tr><td>DS200</td><td>15" H x 14" W x 16" D</td><td>23 pounds, including internal battery</td></tr><tr><td>DS200 storage and transport case</td><td>8" H x 27" W x 24" D</td><td>29 pounds</td></tr><tr><td>DS200 plastic ballot box with metal doors</td><td>26" H x 36 1/2" W x 24" D</td><td>45 pounds</td></tr></table> DS450 – DIMENSIONS AND WEIGHT <table><tr><td>DS450</td><td>32" H x 47" W x 22" D</td><td>135 pounds</td></tr></table> DS850 – DIMENSIONS AND WEIGHT <table><tr><td>DS850</td><td>37" H x 41" W x 18" D</td><td>200 pounds</td></tr></table> EXPRESSVOTE – DIMENSIONS AND WEIGHT <table><tr><td>ExpressVote</td><td>19" H x 25" W x 7" D</td><td>20 pounds, including internal battery</td></tr></table>	DS200	15" H x 14" W x 16" D	23 pounds, including internal battery	DS200 storage and transport case	8" H x 27" W x 24" D	29 pounds	DS200 plastic ballot box with metal doors	26" H x 36 1/2" W x 24" D	45 pounds	DS450	32" H x 47" W x 22" D	135 pounds	DS850	37" H x 41" W x 18" D	200 pounds	ExpressVote	19" H x 25" W x 7" D	20 pounds, including internal battery
DS200	15" H x 14" W x 16" D	23 pounds, including internal battery																				
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1.1.A.12	The system shall allow for omni-directional feed of the ballot and be fully capable of counting non-oriented ballots.	Y		The DS200 and DS450 can quickly and simultaneously scan and tabulate both sides of each ballot page submitted in one pass regardless of the orientation of the paper, whether top side up, top side down, header in first, or footer in first.
1.1.A.13	The system shall include a visible public counter that displays the number of ballots processed; the display must utilize a font and font size that can be clearly read by voters and precinct inspectors.	Y		The DS200 displays a Public Count that tracks the number of ballots cast between opening and closing the polls. The Public Count starts at zero and increases with each cast ballot. The location of the public count appears below:



Both the DS200 and central tabulator display machine counts in a font size easily read by voters or officials. The DS200 Public Count is 14-point Tahoma font.

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.13 <i>continued</i>				The DS450 scan screen shows the total number of ballots processed and saved on the tabulator as well as the current number of ballots scanned, but not saved.
9PNYROCK 2015-02-09 ABS850 3/23/15 11:35 AM Menu Scan Ballots Load Ballots Mode: ED/AD Selection On ED/AD: 0260 - TRAMAE7 Sorting: Off Current Top Bin 0 Middle Bin 0 Bottom Bin 0 Total 0 Saved Middle Bin 0 Bottom Bin 19 Total 19 Last Export: N/A Total: 0 Start Stop Save Select ED/AD				
1.1.A.14	The system shall be capable of scanning one-sided ballots, two-sided ballots, and multiple page ballots while recording the event as one ballot cast. The Contractor must indicate how/when the tabulator's public counter increments (e.g., upon tabulation of page 1, page 2, or both pages 1 and 2)	Y		The DS200 and DS450 can read one-sided, two-sided, and multiple-page ballots. When reading a multiple-page ballot, tabulators record page (1) one in a multiple-page ballot as an indicator of a ballot being cast. The public count will only increment for page (1) one of the ballot. The DS200 has a public counter conveniently located on the large LCD display screen. The font size on the screen is 14-point. After the DS200 scans and securely stores a marked paper ballot, the system displays a confirmation message for the voter and then increments the public counter to confirm the ballot has been counted and the totals have been added to the removable USB memory device. At this time, there is not a way to remove the lifetime ballot counter from the display. However, that feature is planned to be a configurable item in EVS 6.2.0.0. with projected release in fall of 2017.

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.15	The system shall provide an auditory and visual notification to the voter that the ballot has been cast.	Y		The DS200 clearly indicates whether a ballot is counted or rejected. When a ballot is successfully cast, the DS200 displays the message "Thank you for voting. Your ballot has been counted." and advances the on-screen Public Count. No audible alert is provided. Once the voter feeds the ballot, it takes four (4) to six (6) seconds depending on ballot complexity before the visual message occurs. If the DS200 detects an issue with the ballot, the system displays a message clearly describing the issue. If the issue prevents casting the ballot, the DS200 returns the ballot to the voter and generates an audible beep to alert the poll worker. The ability to configure audible alerts for different conditions, including successful casting and error conditions, is projected for inclusion in system EVS 6000 with a projected completion of 2017. The ExpressVote does not provide notification because it does not tabulate ballots. It is used as a fully ADA-compliant ballot marking device.
1.1.A.16	All system visible messages and instructions displayed on the tabulator shall be in simple and plain language and shall be customizable.	Y		DS200 All messages on the DS200's touch screen are displayed in easily-understood text. As part of the Contractor's base Voting System (EVS) 5.2.2.0., the DS200 supports English, Spanish, Chinese, Korean, Japanese, and Bengali languages. Contractor's Electionware software is capable of providing customized voter-facing messages for the DS200. This allows customized messages in each County.
1.1.A.17	The tabulator hardware shall be capable of transmitting unofficial election results by cellular or analog modem at the close of polls on Election Night. Refer to Section and Attachment 1.2 EMS SOFTWARE REQUIREMENTS for additional detail.	Y		☐ With EVS 5.3.2.0 the DS200 precinct-based tabulator can be configured to remotely transmit unofficial results via a wireless carrier network or wired analog phone line modem to a Secure File Transfer Protocol (SFTP) server once the polls close. Depending on the modem installed, the DS200 is capable of landline modeming at 38,400 bps and wireless modeming (Code Division Multiple Access (CDMA) or Global System for Mobile Communications (GSM)) at 115,200 bps. ** (Note: EVS 5.3.2.0 is not EAC certified but meets Michigan State election code for voting systems.)** All vote data is digitally signed and encrypted with Federal Information Processing Standard (FIPS)-certified security functions. This includes the data stored on the removable USB memory device or transmitted via wireless or landline modem. The DS450 can transmit results data by either writing encrypted, digitally signed data to a USB memory device, or by transmitting the data via a closed, secure network to the EMS using Secure File Transfer Protocol (SFTP).

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.18	The Contractor shall document the speed at which ballots are processed (ballots per minute), based on ballot size and number of ballot faces.	Y		DS200 The DS200 was designed to function primarily as a precinct-based scanner/tabulator. However, jurisdictions with small absentee voter populations use the DS200 to tabulate their absentee ballots. Ballots are manually fed into the DS200, which scans, images and tabulates the ballot with the average throughput of approximately 10-12 ballots per minute or 720 ballots per hour. However, throughput depends on voting variables, including the length of time it takes the voter to insert the ballot into the tabulator for processing. Counts also would vary, but would increase, in an AVCB situation wherein ballot prompts were removed. DS450 The theoretical run rate of the DS450 is: 11" – 91 bpm 14" – 75 bpm 17" – 63 bpm 19" – 50 bpm Actual ballot throughputs in the field are between 1,000 and 2,000 ballots per hour when scanning, tabulating and generating reports and up to 4,000 ballots per hour when simply scanning and sorting.
1.1.A.19	The Contractor shall document customizable options for results tape printing - content, format, layout, number, etc. Tabulators must be capable of printing multiple copies of each result tape.	Y		All election results reports include results for all contests and candidates. These results are for one or multiple precincts assigned to a poll. Jurisdictions may customize the number of zero report tapes that automatically print on Election morning. Users have the option of automatically printing between 1 and 9 copies of the zero tape. Poll workers also may print as many reports as needed on the fly at the poll. The Results Report prints automatically upon poll closing and may be provided in election summary or precinct formats. Users have the option of automatically printing between 0 and 9 copies of the Results Report. Additional copies may be printed on demand from the Reports Option menu prior to shut down. The Results Report may or may not include over votes and undervotes depending on the Michigan law. Jurisdictions also can customize affidavit wording on the zero tape as well as the results tape. Within the poll affidavit, users can define how many signature lines (up to 20) and the associated wording. The Contractor's system also features an optional Write-in Review Report. This report prints after the Results Report, and prints a graphic image of every write-in vote cast at the polling place. The images are listed in a contest by contest format for ease of review. Additionally, all write-in images may be viewed on the DS200 touchscreen after polls are closed. Lastly , jurisdictions may view the physical ballot to account for write-ins cast.

**Exhibit 2, Attachment 1.1 Voting System
HARDWARE
Technical Requirements**

Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.20	The Contractor shall document all consumables and parts - e.g., printer paper, ink cartridges, memory media, battery, etc. All consumables/parts must be listed in Schedule C, Pricing , along with replacement part costs for each consumable and the estimated shelf life for each consumable/part.	Y		See Schedule C, Pricing , for all consumables/parts, along with replacement part costs for each consumable and the estimated shelf life for each consumable/part.
1.1.A.21	The Contractor shall document the type of printer utilized by the Contractor's tabulator (external or internal, thermal, inkjet, etc.)	Y		The DS200 uses an integrated thermal printer, which eliminates the need to replace ink, toner, or drums. The DS200 prints terminal-level vote totals and system audit reports on the Seiko LTPV-345 internal thermal printer. Each DS450 AVCB high speed scanner/tabulator includes two (2) report printers: • A DELL 2810 series laser printer used to generate scanner level results and configuration reports • A continuous feed OKIdata ML420 printer used to print a continuous physical audit report.
1.1.A.22	The Contractor shall provide details on the system's process for determining valid marks on the ballot by the voter (in the target area), and the process for differentiating valid marks from marginal marks; including whether these functions are set by the system/software/program, or are manually adjustable.	Y		The DS200 and DS850/DS450 employ two patented imaging technologies--Intelligent Mark Recognition®, and Positive Target Recognition & Alignment Compensation (PTRAC)--to ensure that ballot target areas are read accurately and consistently, protecting voter intent and significantly reducing adjudication. Positive Target Recognition and Centering (PTRAC) accounts for real-world issues such as skews of the printed ballot or scanned image to accurately find the voter response oval. The oval is then subtracted out, leaving only the voter's mark. Thresholds are then used to count any marks that are clearly marked or unmarked. For those marks that fall into an intermediate or "marginal" band, Intelligent Mark Recognition (IMR) to identify common voter marks such as lines, check marks, and X's while ignoring unintentional marks such as smudges. To determine which marks are intentional, sophisticated algorithms analyze the mark's darkness (pixel density) and its directionality. The use of Contractor's PTRAC and IMR technologies greatly reduce the number of ballots that require review. Contractor's system has been optimized over years of scanning ballots to allow accurate, repeatable reading of the ballots without the need to adjust thresholds.

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1.1.A.22 <i>continued</i>				Specifically, IMR takes the pixel counts and determines which of the following three levels applies. 1. Low level: If black pixels inside the oval are < 13, then no vote is registered. 2. High level – If black pixels inside the oval are >120, then a vote is registered. 3. Marginal level – If black pixels inside oval are <120 and >13, a pattern matching algorithm in IMR is run on the entire rectangle area to determine whether or not a vote is present. IMR looks for patterns of pixels which match a single line passing through the clipped rectangle at any angle. The DS200 and DS850 mark recognition algorithms do the work for you. Unlike less-sophisticated scanners, the DS200 is not fooled by erasures or other stray marks and is not confused by lighter or thinner marks that would be missed by a simple threshold. PTRAC and IMR mean faster results for you and assurance for voters that their votes were counted as they intended. Contractor strongly discourages the use of systems that rely only on thresholds, especially systems that require a manual adjustment of the threshold for the entire election. Because variations in ballot printing and scanner calibration can be inconsistent across the election, a single threshold setting may resolve issues with some ballots or machines, but introduce issues with others. Large-scale manual ballot counting has been necessary at customers that have used these systems because a single threshold setting would not accurately read all ballots.
1.1.A.23	Write-in Votes: The Contractor shall describe in detail all aspects of the write-in vote and adjudication process. The tabulator shall allow for the voter to cast a write-in vote by marking the target area and writing the candidate name of their choice in a provided area. The tabulator shall store an image of the write-in vote, which can be separated out (as a group) for later determination and adjudication of valid write-in votes.	Y		The Contractor's tabulation system uses our newest state-of-the-art technology to store a graphic image of the front and back sides of each scanned ballot, including write-in text, thus eliminating the need for workers to gather and handle paper ballots when performing the adjudication process for write-in votes. Due to improper function, old-style diverter-type equipment has considerable probability of diverter break-downs, wear-out, and over-looking write-in marked ballots, which results in the greater possibility of write-in ballots not falling into the proper ballot box bin. If the diverter is not recognized during the tabulator opening process and system operation messages such as "diverter not found" are overlooked and/or the wrong buttons are pressed, the diverter is inadvertently turned off/inoperable causing write-in ballots to not fall into the proper write-in bin. It also causes considerable jamming of ballots during the course of the day, which can result in properly marked write-in ballots not being counted during the adjudication process because workers are only reviewing ballots that have dropped into the write-in bin. Diverter to sort ballots are a huge maintenance problem on older technology ballot boxes. For these reasons, ES&S has developed tabulators that scan and store a graphic image of the ballot that can be displayed on screens, tabulator tapes, or on computers through our software programs. This system far outweighs the pitfalls of human error in handling, sorting and visually viewing ballots, and making late-night determinations on what should or should not be counted as valid write-in votes.

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1.1.A.23 <i>continued</i>				DS200 To cast a write-in vote utilizing the DS200, voters would mark the target area/fill in the oval and write the candidate's name of their choice in the provided area. When ballots are scanned, the DS200 stores a graphic image of every scanned ballot, including write-in text, on the system's USB memory device. When the scanner detects a write-in vote, the system stores the write-in ballot image under a special file name to identify the image as a write-in ballot. This file can be: • viewed at the close of the polls on the LED screen • printed (manually or programmed to print automatically after the totals tape) • displayed as a listing on the DS200 tabulator tape • viewed or printed in the reporting application at Election Central Electionware offers the ability to print, view, and display the results in media and summary level reports. The entire content of the USB memory device is archived on the EMS server. The write-in votes are recorded by the DS200 and write-in vote counts are included in all election reports by contest. The DS200 status report displays the total number of write-in votes cast, among other statistics. The DS200 system would continue to allow for end-of-day precinct worker adjudication of write-in votes in different ways, as shown on the next page.

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.A.23 <i>continued</i>				1. PRECINCT ADJUDICATION: Preferred method: All write-in vote images can be printed on a tape, similar to the totals tape, from the DS200 tabulator after the totals tapes are run. This tape can be programmed to print as many copies as requested immediately following the printing of the totals tapes. Included on this tape is the identical image, in the voter's handwriting/print, of the write-in vote cast in each contest that received a write-in vote. This list prints in the identical contest order as the ballot layout/totals tape. Workers will view the tape to determine whether or not they must log-in to complete any required forms for write-in votes, including precinct delegate votes. 2. Each scanned write-in ballot can be viewed on the LCD display screen. An easily identifiable button on the DS200 tabulator reports menu states "Write-Ins." Using this option, the screen displays the graphic image of each ballot processed by the tabulator with a write-in vote to be adjudicated. The adjudication team would navigate this screen one page at a time and review each write-in image in the voter's handwriting/print. If necessary, they would log-in to complete any required forms for write-in votes, including precinct delegate votes. 3. CENTRAL LOCATION ADJUDICATION: Once the precinct is closed, the ballot images are saved to the USB memory device. This device can be read into ERM and various reports, which would list/capture any and all write-ins voted on that USB memory device, can be viewed and/or printed. For example, variations of reports can be achieved, including all write-ins in a certain precinct/contest, for only one precinct, for a mix of precincts, for a local community or all jurisdictions in an entire county. By either viewing election data on the computer screen or obtaining the information from a printed report of varying styles, adjudication could be done at a central location by a local clerk or board, or the county clerk, staff or canvassing board, etc. While changes of this type would be new to Michigan, we feel the options for adjudicating write-in votes are easier and much more accurate than in the past utilizing older, diverter-type equipment.

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1.1.A.23

continued

DS450

The DS450 scans and stores a graphic image of the front and back side of each ballot. These images can be reviewed in Electionware and filtered by various attributes, including displaying only ballots containing write-ins. The Cast Vote Record for the ballot image can be viewed beside the ballot image. Furthermore, Electionware can output a spreadsheet with an entry for each write-in found with the snippet of the image containing the voter's marks.

Image files can also be exported in a PDF format for archival or public review. During export, the ballots can be filtered to include the CVR for the image and apply a watermark to the PDF file.

The DS450 may also be configured to outstack write-ins. For adjudication, each ballot in the outstack tray would be physically reviewed to determine its validity. From this, a poll worker could log-in and complete any required forms for write-in votes, including precinct delegate votes. Once the polls are closed and that information is received, jurisdictions also may validate the write-ins from the printed report from Electionware. This could be done with the adjudication team in the AVCB (once they receive a report from the USB stick through Electionware) or again at a central location with the jurisdiction clerk/board or at the county level with the clerk, staff or canvassing board. A sample of one style of a printed report is below:

	A	B	C	D	E	F
1	Cast Vote Record	Precinct	President and Vice President	Senator	Representative for Congress Representative for Congress	
2	101	undervote	undervote	undervote	undervote	
3	101	0000 Barack Obama	0000 Barack Obama	0000 Barack Obama	0000 Barack Obama	
4	101	undervote	undervote	undervote	undervote	
5	101	0000 Barack Obama	0000 Barack Obama	0000 Barack Obama	0000 Barack Obama	
6	101	undervote	undervote	undervote	undervote	
7	101	undervote	undervote	undervote	undervote	
8	101	0000 Barack Obama	0000 Barack Obama	0000 Barack Obama	0000 Barack Obama	
9	101	undervote	undervote	undervote	undervote	
10	101	0000 Barack Obama	0000 Barack Obama	0000 Barack Obama	0000 Barack Obama	
11	101	undervote	undervote	undervote	undervote	
12	101	undervote	undervote	undervote	undervote	
13	101	undervote	undervote	undervote	undervote	
14	101	undervote	undervote	undervote	undervote	
15	101	undervote	undervote	undervote	undervote	
16	101	undervote	undervote	undervote	undervote	
17	101	undervote	undervote	undervote	undervote	
18	101	undervote	undervote	undervote	undervote	
19	101	undervote	undervote	undervote	undervote	

This example of an export Cast Vote Record was used to evaluate write-ins, which show the write-in area if there is writing in that ballot panel, even if the oval is not filled in.

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1.1.A.23 <i>continued</i>				EXPRESSVOTE ExpressVote thermal card stock/ballots containing write-ins are scanned by the DS200. When tabulated, they are handled in the same manner as described above or the same as regular precinct voted paper ballots. Through visual and/or audio instruction, the ExpressVote voting screen advises voters to press the Write-In tab whenever they choose to cast a vote for a write-in candidate. A typewriter style keyboard appears and the voter types in the name of the candidate they wish to vote for. When the card/ballot is reviewed, approved and printed at the request of the voter, the typed name of the write-in choice as typed by the voter appears on the card/ballot. This ballot is then inserted into the DS200 tabulator for scanning and tabulation and an image of the card/ballot is stored and accounted for by the tabulator in the same manner as regular voted precinct ballots in that tabulator. Both precinct-based and central location write-in adjudication for ExpressVote ballots would be the same as processing write-in ballots/votes from regular precinct ballots tabulated by the DS200.
1.1.A.24	The tabulator shall be capable of retaining a record of each voted ballot in a way that protects each voter's privacy. Proposals shall describe in detail, the storage process and storage capabilities and limitations (e.g., the maximum number of ballot records that may be retained on one device.)	Y		DS200 The Electionware EMS can be used to configure the tabulators to save the front and back images of all processed ballots or just ballots containing write-in votes. For every ballot cast, the tabulator also stores a Cast Vote Record (CVR) file. The ballot CVR and the images are signed by a machine-specific private key. When results are transferred, these CVR files and images are encrypted and signed again to allow for secure transport. The ballot images are stored in a TIFF (Tagged Image File Format) format. Since the image files are encrypted, the files on the election media are not externally viewable. Ballot images can be exported from the DS200 to USB memory devices for electronic review or printing. Every ballot cast is assigned a random 16-byte identifier and all the ballot CVRs and ballot images are stored on the inserted memory media with exactly the same timestamp. This effectively decouples any association of the ballot to the voting order to guarantee voter privacy. If no images are stored, the standard 4GB USB memory device can capture and store approximately 100,000 cast vote records, the election definition, and audit log records. If ballot images are captured and stored, the 4GB drive can store at least 12,000 images (both sides of each ballot sheet), along with the cast vote records, the election definition, and audit log records. DS450 In a central count solution, voter privacy does not come into question since the voter is not present upon operation of the unit. The DS450 contains a 1-terabyte internal hard drive that stores all of the ballot images and records for the entire election, no matter the size or complexity of the election. Contractor estimates it will take an entire man year of continuous scanning to fill the hard drive.

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1.1.A.25	The tabulator shall be capable of withstanding transport conditions that may include extremely bumpy roads, exposure to extreme heat, cold, humidity and dust without incurring damage during transportation or becoming inoperable as a result of such transport.	Y		DS200 The DS200 digital scanner has a protective enclosure that can withstand the transportation and storage requirements outlined in the 2005 Voluntary Voting System Guidelines (VVSG) and adopted by the Election Assistance Commission (EAC). The DS200 should be operated and stored in a temperature and humidity controlled environment, but is capable of performing under less than ideal environmental conditions. Specifically, several thousand DS200s are deployed throughout the State of Florida in areas of high humidity. The units located in 34 Florida counties have operated perfectly in the high temperature, high humidity conditions. In 2012, over 5,700 DS200's were deployed to temporary facilities throughout the boroughs of New York City during Hurricane Sandy's devastation of the Empire State. The DS200 units used in the NYC election post-Hurricane Sandy were exposed to severe storage and transport conditions and yet they performed flawlessly. The lockable carrying case for the DS200 is capable of withstanding impact, shock, and vibration loads accompanying private ground transportation. The DS200 carrying case is made of HDPE (High Density Poly Ethylene) and is provided with a telescoping handle. It becomes the top of the plastic ballot bin and ensures that the DS200 is securely attached to the ballot box and deposits ballots directly into the box once scanned. Some jurisdictions choose to transport their DS200 units while securely attached to the assembled ballot box. A heavy-duty rubber seal in the DS200 carrying case lid protects the DS200 against the elements such as dust, moisture and wind.

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1.1.A.26	The tabulator shall be capable of withstanding frequent loading and unloading, stacking and unstacking, assembling, disassembling, reassembling, and other routing handling in the course of normal storage and operation.	Y		DS200/DS450 Election equipment, in general, must be designed to withstand the rigors of the election cycle. The election cycle entails removing equipment from storage, programming and preparing equipment, shipping equipment to the election site, conducting the election, returning equipment to the warehouse/storage. To withstand this, the equipment was designed to be robust through the utilization of materials, mechanical analysis, and, where necessary, added protection in external cases. Verification of the design is through the "Transport and Storage" and "Bench Handling" requirements in the Voluntary Voting System Guidelines DS200 The DS200 housing is made from impact resistant polycarbonate and acrylonitrile butadiene styrene blend (PC/ABS) (Cyclooy C6600) specified to minimize cracking. Locked doors made from PC/ABS provide easy access for paper and battery replacement, cleaning of contact image sensors, and inserting flash drives. When disassembly is necessary, threaded inserts are molded into the plastic housing to facilitate repeated access without stripping. When setting up for an election, the DS200 has robust rails attached to the bottom that interlock with the rails on the ballot box. If stored on top of the ballot box, the latched carrying case provides impact protection as well as a sand/dust/rain barrier.
1.1.A.26 <i>continued</i>				DS450 The DS450 central scanner is similar. Construction consists of machined aluminum plates with curved aluminum panels to form the ballot track. Locked doors made from clear polycarbonate provide easy access for inserting flash drives or connecting printers. The imaging head swings up for easy access for cleaning the scanner lenses. When disassembly is necessary, access is through the back. For the DS450, the rear door is removed for access. When setting up an election, the input and output trays are extended to match the corresponding ballot length and held in place via friction or detents. Covers to access the ballot path are held in place with snaps or magnetic catches to assure repeatable removal and reinstallation. When stored, a dust cover is placed over the unit to protect against dust.
1.1.A.27	The Contractor shall document and explain any available special features of the tabulator that demonstrates water resistance features.	Y		A heavy-duty rubber seal in the DS200 carrying case lid protects the DS200 against the elements such as dust, moisture and wind. The carrying case serves as the top of the DS200 plastic ballot box but also can securely transport the DS200 when it is detached from the ballot box. The case is designed to protect the DS200 from water damage during transport and storage, and has passed rain and dust tests in Florida certifications that are above and beyond any EAC or state requirements.

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
B. Ballot Requirements				
1.1.B.1	The Contractor's system shall utilize a paper ballot with a voter verifiable paper trail. Ballot-related requirements in this section relate to overall ballot features and functionality; additional technical requirements related to ballots can also be found in Section and Attachment 1.2, EMS TECHNICAL REQUIREMENTS.	Y		The paper ballot utilized with the Contractor's system is the voter-verifiable paper record of all votes cast and provides an audit trail that is available to jurisdictions in the event a recount, including manual recount, is required. Audit logs provide the supporting documentation for verifying the accuracy of reported election results. They present a concrete, indestructible archival record of all system activity related to the vote tally, and are essential for public confidence in the accuracy of the tally, for recounts, and for evidence in the event of criminal or civil litigation. All paper ballots can be counted and recounted in accordance with Michigan state law. In addition to scanning paper ballots, a digital image of each ballot cast is captured along with the associated vote record, which can be used for recounts and adjudication. When the voter has reviewed and modified vote selections as desired, the ExpressVote prints those choices on a thermal card stock/ballot. The ExpressVote produces ballots for tabulation in the DS200/DS450.
1.1.B.2	The Contractor shall document ballot layout options, including support for number, types and placement of columns, portrait or landscape layout, number and placement of vote targets, header shading options, font types and sizes, independence of front/back designs, etc.	Y		Electionware ballot design software enables complete typographic control over all ballot components for the following ballot lengths: 8.5 x 11" with 4 or 5 targets per inch; 8.5 x 14" with 3, 4, or 5 targets per inch; 8.5 x 17" with 3, 4, or 5 targets per inch; 8.5 x 19" with 3, 4, or 5 targets per inch. Ballots may be two-sided with multiple pages. Electionware provides a flexible and innovative ballot layout system capable of grid-portrait, grid-landscape, and multicolumn-portrait ballot types. The system can produce up to 9,900 ballot types, the ability to place up to 2,184 voter targets per side, and numerous font, header, shading, text, rotational, and column options, as well as, graphics as desired. The 8.5-inch-wide ballot has 24 columns of potential oval positions on each ballot side and is available in four different lengths, each having the potential of different row densities. Ovals can be placed to the right or left of candidate names.

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.B.3	The Contractor's system shall support a scalable ballot that ranges, at a minimum, from 8.5" x 11" to 8.5" x 17". The Contractor shall specify the range of ballot sizes the system supports, as well as the minimum/maximum number of columns, races/proposals and candidate positions that can be placed on a ballot.			The DS200 and DS450 are certified to tabulate 11", 14", 17", and 19" length ballots in widths of 8.5" and 4.25" (for ExpressVote thermal card stock/ballots). They are capable of accurately reading a landscape ballot with as many as 24 columns front and back. The Electionware software supports both single- and double-sided ballots as well as multi-page ballots. Ballots can be formatted in either portrait or landscape orientation. Customization options for ballot layouts are extensive, and through the use of style sheets can be applied to all, or a subset of ballot styles. Once the ideal layout is achieved, templates can be saved for future use. In the Contractor's system, Paper Ballot is very flexible. Ovals positions are preset to designated locations depending on which ballot size is selected. There are many options when designing the ballots: 8.5 x 11-inch ballots with 4 or 5 targets per inch; 8.5 x 14-inch ballots with 3, 4, or 5 targets per inch; 8.5 x 17-inch ballots with 3, 4, or 5 targets per inch; 8.5 x 19-inch ballots with 3, 4, or 5 targets per inch. As ovals are drawn on the ballot, there is a protected area surrounding each one and the system will ensure that no text or graphic is too close to that area. Similarly, the system protects the space around the code channel, which is used to identify the ballot style to the tabulator. Contests and candidates may flow from the front side to the back side as needed. However, a single question may not flow from the front to the back. The software will ensure the entire question and its response are moved to the back side.
1.1.B.3 <i>continued</i>				Long questions may wrap from one column to the next on the same side. The user may designate columns and different widths for each ballot side. For example, all ballot front sides may have three columns for contests, while the back sides are one-column wide for long questions. The user can dictate the column widths for each side in the election. This flexibility allows the user to design ballots in Electionware that include large numbers of races, candidates, and questions that are easily read by the DS200 tabulator. Maximum number of races per ballot style: 200 or # of positions on ballot Maximum number of contests per election: Depends on election content (limited by 21,000 maximum counters) Maximum number of candidates per contest: Depends on election content (limited by 21,000 maximum counters)

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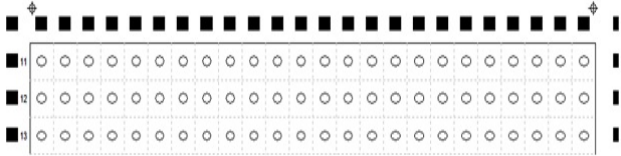
Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.B.4	The Contractor's system shall support ballot layouts that allow for the ballot to be one(1), two (2), three (3) or four (4) columns.	Y		The DS200/DS450 are capable of accurately reading a landscape ballot with as many as 24 columns front and back. The maximum number of columns for a portrait ballot is 24. There are 24 timing marks across the top of the ballot. Each timing mark is a potential start/stop point for a new column. The user can have as many columns as they want (up to 24) as long as their combined width is equal to or less than 24. For example, the user could set up three columns (each eight timing marks wide), or four columns (each six wide). As an additional example, the software is also flexible enough to have one thin column (four wide) plus two wide columns (10 wide).  The diagram illustrates a ballot layout with 24 columns and 4 rows of timing marks. The top row consists of 24 small black squares. Below this, there are three rows of circles, each row containing 24 circles. The circles are arranged in a grid pattern, with 6 columns of 4 circles each. The entire grid is enclosed in a dashed border. To the left of the grid, there are three small black squares, each followed by a number: 11, 12, and 13. To the right of the grid, there are three small black squares, each followed by a number: 14, 15, and 16. The text 'This flexit' is positioned to the left of the grid, and 'arge numbers of races, candidates, and questions that are easily read by the voters and tabulators.' is positioned to the right of the grid. This flexitarge numbers of races, candidates, and questions that are easily read by the voters and tabulators.
1.1.B.5	The Contractor's system must support ballot layouts in either portrait or landscape orientation.	Y		The Contractor's system supports ballot layouts in either portrait or landscape orientation. If desired, the tabulators are capable of reading a ballot with portrait on one side of the ballot and landscape on the other side. The landscape orientation is useful for questions or referendums that require a lot of space on the ballot.

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.B.6	The Contractor shall include all pertinent ballot production specifications (e.g., ink, paper weight/thickness to prevent bleed through, etc.) and all other requirements related to ballot printing to allow counties and local jurisdictions to utilize commercial ballot print vendors of their choice. Any proposed ballot printer certification requirements shall be outlined in detail in this Contract, and are subject to State approval. Contractor must list any pre-approved ballot printing vendors who are certified to print ballots for use with the Contractor's system. The maximum paper size any county has used to date for a single optical scan ballot page, with 2 faces, is 9.75 x 22 inches. Note that in some jurisdictions, a two-page ballot has sometimes been used. (Note:	Y		Contractor recommends that all printers use ES&S CountRight™ ballot stock, which has been specially engineered to run on ES&S tabulators and meets all ES&S specifications for the equipment. As the manufacturer of the scanning equipment, ES&S understands the critical synergy required between the ballot paper, the ink on the paper, and the tabulator logic. CountRight is available to third party printers in two ways: • As the only authorized distributor of CountRight, Veritiv offers parent sheets and rolls in several sizes and formats. • Contractor stocks and markets CountRight Digital Ballot Stock sheets in a variety of lengths. The State is free to purchase only the size(s) of ExpressVote card stock that is needed to conduct State elections, which most likely will result in the purchase of 14- and/or 19-inch card stock. Unlike pre-printed, unused standard ballots, unused ExpressVote card stock can be saved and used for future elections. Contractor's tabulators require the following ballot specifications to ensure proper tabulation of voter marks: Ballot ink Contractor recommends jurisdictions print all machine readable components with commercially available black ink. However, there are no limitations on color applied and any commercial ink may be used on ballots read by ES&S optical scanners. Ink density must remain between a minimum of 0.95 and a maximum of 1.5. For best results, a density of 1.15 should be used. Flat ink should always be used, and powder or varnish should not be used when printing. Following these guidelines will ensure that the ink will not rub off during ballot tabulation or fade, smear or otherwise degrade and obscure or obliterate the paper record over time. The following colored inks are approved only for creating screens on ballots: • Red PMS Warm Red • Orange Pantone 151 • Brown Pantone 472 • Yellow Pantone 107 • Purple Pantone 252 • Green Pantone 344

Exhibit 2, Attachment 1.1 Voting System
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Technical Requirements

Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.B.6 <i>continued</i>				Paper Contractor recommends the use of 80 lb. ES&S CountRight Ballot Stock as our testing and certifications are completed using this type and weight of paper. ES&S tabulators require the following ballot specifications to ensure proper tabulation of voter marks: • Grain direction on finished ballot: Long • Basis weight: 80 lb. text weight (36.2874 kg) • Thickness: 0.0061 in. (0.015494 cm) • Smoothness: 130 Sheffields • Moisture: 5.5 percent • Opacity: 97.0 • Brightness: 96 • PPI: 338 The ExpressVote uses a more densely populated card stock when compared to the conventional three-column ballot, which saves time, pages, and ballot printing costs. A single thermal card stock/ballot can fit up to 102 selections, eliminating multiple-page ballots. The ExpressVote generates vote records on 4 ½ inch x 11-, 14-, 17-, and 19-inch thermal card stock/ballot. The thermal card stock/ballot uses thermal heat-sensitive paper with 134 Microns +/- 6 Microns (0.005275" +/- 0.00236") thickness. Ballot sizes: • Ballot width: 8.50 in. + 0.027 in. or - 0.020 in. (21.59 cm + 0.0762 cm or - .0508 cm) • Ballot height: 11 in., 14 in., 17 in. or 19 in. + 0.030 in. (27.94 cm, 35.56 cm, 43.18 cm or 48.26 +.0762 cm) Note: The ballot heights above are finished size lengths and do not include ballot stubs.
1.1.B.6 <i>continued</i>				The pertinent ballot specifications for the ExpressVote thermal card stock/ballot paper are listed below: Type: Thermal heat-sensitive paper Color: White Thickness: 134 Microns + / - 6 Microns (0.005275" +/- 0.000236") Lengths Available: 11, 14, 17, and 19-inches +/- 0.008" tolerance for all paper lengths Width Available: 4.25 +/- 0.008" tolerance for all paper lengths Die-cut Corner: .750 +/- 0.008" tolerance on two sides (see Figure 5) Maximum Ballot Selections: 102 ballot selections can fit on a single thermal card stock/ballot, eliminating multiple-page ballots. Contractor understands and will comply with respects the State/Authorized User's right to select a ballot service provider of their choice. ExpressVote thermal card stock is COTS. The purchase source varies, which enables the State/Authorized User to purchase thermal card stock from a service provider other than the Contractor. However, based on their experiences, the Contractor highly discourage this practice. To ensure the ExpressVote operates as intended, it is critical that thermal card stock/ballots meet Contractor's specifications provided above.

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.B.6				Oval thickness and Color Electionware's Paper Ballot module offers options for line thickness. Contractor recommends a .005 inch setting, which creates a thicker oval for maximum mark detection performance. Paper Ballot also allows for the oval line color to be updated. Contractor supports many colors, including black, red, orange, blue and purple.
<i>continued</i>				Folding restrictions Optical scan ballots can be printed on manufactured 80 lb. CountRight ballot stock. This paper is sufficiently durable to withstand repeated handling and folding for the purposes of mandatory random audits and recounts. A folding machine should be used to expedite the process. In addition, roller pressures should be reduced to about 2-3 times the thickness of code stock. DO NOT fold through any timing marks. Scoring followed by folding may result in the ballot separating at the score/fold line.
				Printing Ballots Contractor is the leading ballot service provider in the United States. We offer full offset and digital capabilities at our company-owned print plants in Birmingham, Alabama and Omaha, Nebraska. In addition to our company-owned facilities, we have built an impressive coast-to-coast Partner Printer Program. The Partner Printer Program allows us to meet all our clients' timeframes and deadlines. Our network of in-house and partner printers is unmatched in the industry and provides our print and mail customers with quality service, bench strength, and multiple backup locations in the case of a natural disaster.

Exhibit 2, Attachment 1.1 Voting System
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Technical Requirements

Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.B.6 <i>continued</i>				Contractor will provide guidance or assistance for ballot printers with regard to scoring ballots for the DS200 precinct scanner/tabulator. In addition to Partner Printers, Contractor also works with the State's and local counties and jurisdictions local chosen printers by providing all ballot specifications and training, when necessary, for them to expertly print ballots for our customers to use on ES&S election equipment. Third Party Printers Contractor understands and respects the right of their clients to select a ballot service provider of their choice. There are several third party printers in Michigan at this time. Contractor will provide all of the necessary tools, specifications and rules and regulations that a third party printer must adhere to in order to produce an ES&S finished ballot that will be accepted and recorded accurately by your new ES&S tabulation devices. Until the Contractor provides the new print specifications and related information on the Contractor's voting system solution, there are no pre-approved printing vendors. Contractor believes that ballot management is a factor that must be controlled jointly by their clients and the Contractor. In addition to their company-owned facilities, Contractor has built a coast to coast Partner Printer Program that allows the Contractor to offer fulfillment capacity to meet the peaks that are predictably experienced throughout the election calendar year. If the State/Authorized User selects a ballot service provider other than the Contractor, The Contractor has designed a printer training program that provides all of the necessary tools, ballot specifications and rules and regulations so that a third-party printer can produce an ES&S finished ballot that will be accepted and recorded accurately by your ES&S tabulation device. Contractor has an extensive training program for our Partner Printers, along with approvals of print facilities, meetings with personnel, letters required from local counties/jurisdictions' requesting that a local printer be approved as a "partner printer," non-disclosure agreements, contract provisions, etc. Contractor currently has one (1) partner printer in Michigan, located in the City of Detroit. They have been printing ballots for the City of Detroit's local elections for several years.

Exhibit 2, Attachment 1.1 Voting System
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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.B.7	OPTIONAL REQUIREMENT: The Contractor's system offers an optional <i>Ballot on Demand</i> (BOD) system; functionality that allows for designated precinct ballots to be printed at the time of issuance to the voter, and a system that allows for the issuance and processing of numerous ballot styles in a single jurisdiction via a single BOD system.	Y		Yes, Contractor offers an option for Ballot on Demand printing, See below for an overview of Balotar Compact, a portable system. The portable Balotar Compact Printing System® consolidates commercially available printing components with Contractor's proprietary software and hardware modifications, enabling the system to fulfill the demanding printing and audit needs of elections. The Balotar Compact is a rugged printer that can be transported, along with an optional foldable lightweight cart and accessories, in the back of a van or hatchback. The printer's light weight and small size of the Balotar Compact eliminates costly manpower and transportation fees normally associated with moving larger on-demand systems between the storage and polling locations. The system enables election staff to print the exact number of ballots needed for each vote center, based on Election Day turnout, increasing efficiency while reducing cost and waste. Key features include: • precision alignment feeder, which ensures maximum ballot readability • integration with your voter registration system • provides an easy-to-use interface • eliminates ballot picking and pulling • ballots can be printed as-needed • removes the risk of ballot shortages • contains automated email and fax, overlay, and plug-and-play capability • automatic duplex capability for 19-inch ballots Contractor provides all-inclusive support including installation, setup, and training, hardware and software maintenance, help desk and on-site support, and all ballot stock and consumables.

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.B.7 <i>continued</i>				Advance voting is on the rise as more voters cast their ballots before Election Day – in person at voting centers, at local election offices, and via absentee ballot by mail. Contractor offers around-the-clock support for all your printing needs before, during, and after Election Day. In the 2012 General Election, 39 percent of all ballots were cast before Election Day. Although the State of Michigan doesn’t currently allow early voting, this BOD system will fulfill such future needs. The Balotar Compact printing system helps your jurisdiction roll with these changes, saving on costs, relieving stress, reducing environmental impact, and improving efficiency. The system is cost efficient because it limits overtime costs, reduces temporary staffing needs for ballot processing and inventory, and has flexible fees to fit your budget. The Balotar Compact printing system also controls pre-election ballot production, does not cause Election Day delays for ballot deliveries, ensures the correct ballot style for every voter, avoids ballot shortages, and allows UOCAVA and absentee ballots to be ready in an instant. In addition, it is environmentally friendly, eliminates waste from pre-printing too many ballots, creates lower energy use for ballot printing and shipment, and reduces chemical use.
1.1.B.7 <i>continued</i>				The Balotar Printing System® consolidates commercially available printing components with Contractor’s proprietary software and hardware modifications, enabling the system to fulfill the demanding printing and audit needs of elections. The system enables election staff to print the exact number of ballots needed for each vote center, based on Election Day turnout, increasing efficiency while reducing cost and waste. The Balotar Printing System controls pre-election ballot production, does not cause Election Day delays for ballot deliveries, ensures the correct ballot style for every voter, avoids ballot shortages, and allows UOCAVA and absentee ballots to be ready in an instant. In addition, it is environmentally friendly, eliminates waste from pre-printing too many ballots, creates lower energy use for ballot printing and shipment, and reduces chemical use. See Schedule C, Pricing, Optional Items.
C. Memory Device				

**Exhibit 2, Attachment 1.1 Voting System
HARDWARE
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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.C.1	The Contractor shall describe and detail the memory device utilized by the Contractor's system. The solution is a commercially-available (COTS) memory device. The memory device does not include batteries or removable parts. The Contractor must indicate make, model, storage capacity and security features of the memory device proposed, and any special requirements related to the use and purchase of the memory device. The memory device is included and separately listed in Schedule C, Pricing (including component costs for a single additional or replacement memory device).	Y		Contractor utilizes the Delkin USB 2.0 flash drives for the the DS200/ DS450/ExpressVote. These drives are modified-COTS and proprietary. These USB memory devices do not have batteries and do not contain removable parts other than the USB cap. The DS200 and ExpressVote come with the 4GB and the central scanner/tabulators come with the 8GB USB memory devices. Contractor's manufacturer registers each drive with the USB Consortium for added security, allowing the Vendor Identification (VID) and Product Identification (PID) to be coded into our firmware. The Delkin drives selected are certified as Industrial grade memory devices using Single Level Cell (SLC) flash technology. SLC devices operate at faster speeds with 10 times the reliability of standard consumer grade devices. These drives are built with single level cell (SLC) technology allowing for faster access times, a much lower bit error rate and a longer life span than consumer USB drives from retailers. Other COTS USB memory devices are multiple level cell (MLC), which have a higher likelihood of bit error, higher rate of physical failure, slower access time and much lower read/write lifetime. Avoiding bit errors is a big consideration when thinking about election administration; bit errors on consumer devices might cause pixels in a photograph to be rendered or an audit log mismatch, causing the DS200 system to halt. Additionally, Contractor's devices are made along the same lines as military and industrial devices, ensuring they are available in the correct specifications for many years.
1.1.C.1 <i>continued</i>				Contractor's memory devices pass the EAC requirement of 22 months archival period, with no data loss; the manufacturer guarantees data retention for 10 years. Key features include: • Available in the following capacities: 4 and 8 GB • High-speed USB 2.0 certified (backward-compatible with all USB 1.1 ports) • Static and dynamic wear-leveling • 8-symbol error correction code (ECC) • Lifetime warranty • "High Speed" transfer rate: up to 480 megabits/second for USB 2.0 • "Full Speed" transfer rate: up to 12 megabits/second for USB 1.1 • Storage temperature: -40 to 85 degrees C • Commercial operating temperature: 0 to 70 degrees C • Industrial extended operating temperature: -40 to 85 degrees C The Contractor's USB memory devices are included and separately listed in Schedule C, Pricing including component costs for a single additional or replacement USB memory device).

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.C.2	The Contractor's system shall provide for multiple ballot styles (multiple precincts and split precincts) to be stored on and processed by a single memory device. Contractor must indicate any limitations or maximum capacity requirements related to a single memory device (e.g., maximum	Y		If no images are stored, the standard 4GB USB memory device used with the DS200 scanner can capture and store approximately 100,000 cast vote records, the election definition, and audit log records. If ballot images are captured and stored, the 4GB drive can store at least 12,000 images (both sides of each ballot sheet), along with the cast vote records, the election definition, and audit log records. The 8GB USB memory device used in the DS450 scanner is also available for use with the DS200 scanner and will increase the amount of storage per voting unit and USB memory device, if required by the jurisdiction. Contractor's solution EVS 5.2.2.0. is capable of reading, recording and storing results from up to 9,900 precincts and 9,900 ballot styles on a single USB memory device.
1.1.C.3	The Contractor shall describe any capabilities for processing additional ballots after the polls have been closed		Y - Contractor complies with modifications	Further counting of ballots by the DS200 is prevented once the poll closing sequence is initiated by the election worker, unless an authorized election official conducts the steps to re-open the polls with the use of an authorized access code.
1.1.C.4	The Contractor shall describe any memory device security features (e.g., encryption, security seals or other features) which are available to secure data stored on the device.	Y		The EQC not only clears the previous election logs and security codes on the tabulators, but also loads the election ID and security codes for the new election allowing for secure loading of the new election definition. DS200 The DS200 USB memory device is located in a locked compartment. For added security, the USB memory device can be fastened in place with a wire seal and the door of the compartment can be secured with a tamper-evident seal. Election definition files, vote results, and ballot image files on the DS200 removable USB memory device are digitally signed and encrypted using Federal Information Processing Standards (FIPS)-compliant Advanced Encryption Standard (AES) encryption using a certified library from Rivest-Shamir-Adleman (RSA). The results remain encrypted until imported into Election Reporting Manager for results accumulation. All data transmissions to the Data Comm SFTP Server have been designed and configured to be FIPS 140-2 compliant. The DS200 system continuously evaluates whether the hardware and firmware are executing only in the authorized fashion. Any deviations from this execution due to tampering or system issues are immediately logged and reported to the user via the touch-screen interface and the machine Events Log. The DS200 Events Log report lists all events (errors, exceptions, and user-initiated functions) that occur on the system from the time an election worker inserts the unit's removable memory device until the USB memory device is removed. Each event appears in the audit record with a date and time stamp. A user can view the Events Log on the DS200 or print the contents on the thermal printer built into the machine or from the Electionware EMS after a user has closed the polls and transferred the data from the USB memory device to Electionware.

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.C.4 <i>continued</i>				DS450 The DS450 stores all data to the hard disk drive. Backups of the results are completed by exporting the data to USB memory devices. Data exported is digitally encrypted and signed to prevent tampering with results. From concept to construction, Contractor adheres to industry-leading standards for quality and security. Designed and federally certified to meet the rigorous security standards of the 2005 Voluntary Voting System Guidelines (VVSG), the DS450 operating system controls, limits and detects unauthorized access to all critical system components. The system also implements state-of-the-art safeguards against losses of system integrity, availability, confidentiality and accountability. The DS450 secures all data ports behind clear plastic lockable and sealable access doors to protect access and allow election officials to easily detect unauthorized access. All critical hardware components can be locked and sealed as well. The DS450 logs when the imaging heads are accessed. It provides additional alerts and logs access to the back service door.
1.1.C.4 <i>continued</i>				DS450 security features ensure the highest level of physical and system-level security for the central count environment: • Data and system validation. The DS450 provides easy validation for all resident firmware against certified versions and generates detailed audit and event logs to support system vetting. In addition, it validates and accepts only data that contains the proper digital data encryption and signing. • Strong physical access controls. The DS450 secures all data ports behind clear plastic lockable and sealable access doors to protect access and allow election officials to easily detect unauthorized access. All critical hardware components can be locked and sealed, as well. The DS450 logs when the imaging heads are accessed. It provides additional alerts and logs access to the back service door. • Role-based access codes. The DS450 provides access codes that allow access for operator and administrative roles. Access code protection is configurable to protect all operations of the applications. Pass codes are required to access all critical functions, including Election Administration, Processing Modes, System and Hardware Maintenance, and Results functions. Supervisor functions are limited to the controls provided in the system menus. • Full logging for complete auditability. The DS450 provides options for both real-time printed and electronic logging of all activity performed, with the ability to reprint logs on demand or export electronic logs for complete review. The DS450 logs all pass code attempts, whether successful or failed, to the digitally signed audit log. In addition, all user actions (such as administrative selections and open and close poll events), whether successful or failed, are written to the audit log. Only the DS450 system can create, read, modify, and delete the audit log/inventory as the user interface is locked out of this functionality. All low-level access to the file systems is protected.

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.C.4 <i>continued</i>				• Digital encryption and signing of key files. The DS450 uses digital encryption and signing of key configuration and data files for complete integrity of the election and results. All DS450 data is signed with Federal Information Processing Standards (FIPS)-compliant digital signature algorithms. All data generated is also signed so the program receiving the data can validate it. • Protection against improper configuration. The system functions will not execute if it is improperly configured. • Redundancy. The DS450 provides the ability to backup vote data to a USB memory device to complement the retention of paper ballots and proper election procedures by election officials as a redundant means of providing system security. • Network security. Each DS450 central tabulator/scanner is assigned a unique user ID and password on the SFTP Server. • Cast Vote Record security. Cast Vote Records (CVRs) can be written to election media for backup purposes without aggregating vote data for reporting purposes. This prevents data from being read into the EMS system for the purposes of reporting. The aggregation of data is access-code controlled and can be locked out until re-enabled by an administrator. All CVRs are digitally signed and are encrypted when exported via USB media or network.
1.1.C.5	The Contractor shall describe any physical security features that secure the memory device to the tabulator to ensure tamper resistance and full security for memory devices with the tabulator from the time of initial testing through Election Day.	Y		DS200 The DS200 USB memory device is located in a locked compartment. For added security, the USB memory device can be fastened in place with a wire seal and the door of the compartment can be secured with a tamper-evident seal. DS450 The DS450 secure all data ports behind clear plastic lockable and sealable access doors to protect access and allow election officials to easily detect unauthorized access. All critical hardware components can be locked and sealed as well. The DS450 logs when the imaging heads are accessed. They provide additional alerts and logs access to the back service door.

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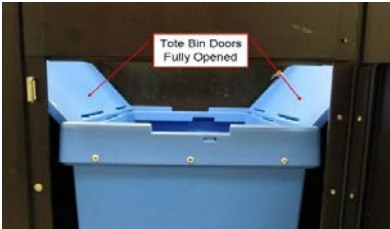
Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
D. Ballot Box				
1.1.D.1	Each voting system must include a ballot box for storage of voted ballots. The Contractor shall document the size, weight and volume (ballot capacity of compartment based on ballot size, number of compartments) of the Contractor's ballot box.	Y		The Contractor's solution includes a plastic ballot box has non-flex steel doors and a reinforced base plate, sealed faceplate so it may be loaded with election supplies, oversized durable caster wheels for ease of movement and can be nested to conserve space for storage. The plastic ballot box weighs 45 pounds and is 26" x 36 1/4" x 24." Regardless of length of the ballot, the main ballot bin holds approximately 4,000 ballots. The e-bin, or auxiliary bin, holds approximately 100 ballots. When used with the plastic ballot box, the DS200 carrying case serves as the top of the ballot box. A metal ballot box is available as an option to the State.
				
1.1.D.2	The ballot box shall secure the voted paper ballots in locked and sealable compartments. The Contractor shall detail the use of all lockable compartments utilized by the ballot box.	Y		The plastic ballot box, with the carrying case installed, provides a variety of locations to lock and seal the ballot box to secure the DS200 and USB memory device during pre-Election and Election Day. Each of the ballot box doors (official ballot compartment, auxiliary bin) can be locked and sealed to secure ballots in those compartments. The ballot box contains seven (7) locks and nine (9) possible seal locations. The DS200 contains three (3) locks and three (3) possible seal locations. See Contractor's response to 1.1.D.3 directly below for more information on all lockable compartments utilized by the ballot box.

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.D.3	The ballot box shall allow poll workers the ability to open, re-lock and reseal secure storage compartments.	Y		The DS200 and its ballot box provide multiple keyed locks and wire seal locations to secure storage compartments and ensure the security of your election. If desired, tape seals can also be used for additional security. All lock and seal locations can be easily accessed by poll workers to open and re-lock or re-seal as needed. Many jurisdictions have the DS200 installed on the ballot box before Election Day and delivered to the voting center as a self-contained unit. When properly assembled, the DS200 ballot box ensures the ballot path from the DS200 to the ballot box is completely secure and contained. The only way for a ballot to be deposited in the ballot box is by scanning it through the DS200. For poll workers, setting up the DS200 on Election Day can be a simple three step process: 1. Unlocking and opening the back of the ballot box to access the power cord and plugging it in to a power source. 2. Unlocking and opening the top of the ballot box. 3. Unlocking and opening the touchscreen. If set up according to Contractor's recommendations, this will cause the DS200 to automatically power on with the polls open and ready for voting. Complete details about the DS200 lock and seal options follow:

Lock and Seal Location Counts		
	Keyed Locks	Wire Seals
DS200 scanner	3	3
DS200 ballot box	7	9

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.D.4				On the DS200 scanner, keyed locks secure the main and backup USB memory device compartments, and the touchscreen in a closed position. Up to three (3) USB memory devices can be secured with wire seals, and tape seals can be used across the compartment doors.
continued				

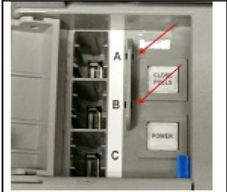
 Main USB compartment lock (also secures power switch)	 Backup USB compartment lock	 DS200 touchscreen lock
 Seal locations, main USB compartment	 Seal location, backup USB compartment	 Example of tape seal in use

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.D.4 <i>continued</i>				On the DS200 ballot box, keyed locks secure the doors to the main and auxiliary ballot box compartment. Two more keyed locks, on either side, secure the DS200 carrying case to the ballot box base. Two latches and a keyed lock secure the top of the carrying case in a closed position. Inside, a keyed lock secure the DS200 scanner to metal rails and prevent its removal from the case. If desired, a wire seal can be affixed near each of these keyed locks. Up to four wire seals can be applied to the latches that hold the top of the ballot bin closed.



Lock & seal locations on front doors and clamshell lid.



Lock & seal location on either side of box.



Lock & seal location to secure DS200 so it cannot be removed from box.

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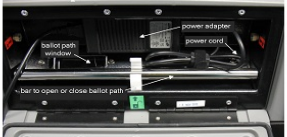
Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.D.4 <i>continued</i>				The top back side of the ballot box is also secured with a keyed lock. This compartment is designed to remain open while the DS200 scanner is in use. This provides several advantages: 1) air is allowed to circulate around the power adapter, which prevents overheating and ensures continued operation of the scanner; 2) Election workers can see at a glance whether the ballot path is open or closed; and 3) The ballot path is completely secure, but election observers can witness the DS200 depositing ballots directly into the ballot box.
				Rear of ballot box, closed and locked  Rear of ballot box, open.  Ballot seen through ballot path window, as it travels from DS200 into ballot box.  Ballot path door open. When the ballot box is fully assembled, this door is not visible and can only be accessed using the bar inside the back door of the ballot bin. 

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.D.4	The ballot box shall include a separate compartment for storage of voted ballots while ballot counter is inoperable.	Y		The plastic ballot boxes contain an auxiliary bin to store uncounted ballots when the scanner is unavailable. The auxiliary bin weighs approximately 4 pounds, measures 23 ½" H x 26" W x 5" D and can hold approximately 100 ballots. The slot for the auxiliary bin may be sealed and locked and in the closed position, or opened and ready for ballots. When opened, it is designed to easily receive ballots, but prevents removal of them. All compartments on the DS200 ballot box, including the rear compartment, are sealable and lockable. The rear compartment provides access to the power cord/power brick and the chute door between the DS200 ballot path and the ballot bin. There is no security breach from the rear compartment door being left open. Often ballot boxes are shipped with the chute door closed for added security. To open the chute door after receiving ballot boxes that have been shipped: 1. Open the rear compartment using a key. 2. To open the ballot chute door, pull the silver handle forward to release it, then push it into the white clamp. 3. The ballot chute door is now open. The image below was taken from the side with the carry case tipped up. The DS200 can be shipped fully assembled to the polling place. Once the unit arrives at the polling place, precinct workers should perform the following steps with the ballot box to allow ballots to go into the ballot box: 1. Unlock the back power door compartment and plug the unit into AC power 2. Break the seals on the carry case 3. Un-lock the carry case 4. Open the carry case 5. Un-lock the display lid on the DS200 6. Raise the display lid on the DS200 7. The act of raising the display lid turns on the DS200 8. The onscreen instruction guide the poll worker through the poll opening process 9. Before the poll opens the zero tape prints automatically 10. The polls are open and the ballot box is ready to take ballots

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.D.5	The Contractor shall describe any portability features of the ballot box that allow for easy transport.	Y		The DS200 ballot box is designed to be compact, portable, and easy to move. The DS200 has two options for easy transport by a single person. The DS200 can be securely transported in its durable hard shell carrying case, or it can be transported on top the DS200 ballot box as an integral unit. The DS200 carrying case is a secure, rain and dust resistant durable hard-sided carrying case. This transport case has luggage type wheels and telescoping spring-loaded handle for ease of transport. When transporting in this mode, the combined weight of the DS200 and carrying case is 52 pounds. The Contractor's recommended configuration for transport of the DS200 is mounted on top of the plastic ballot box. The carrying case serves as the top of the plastic ballot box and can be transported as an integral unit and easily maneuvered by a single individual. The DS200 ballot box has four heavy duty caster wheels on the bottom and convenient side handles designed to enable election workers to pull, rather than push, the ballot box. This provides complete control, and therefore, lessens the chance of a tip over during transport. The DS200 ballot box is very durable and can absorb the shocks and impacts that are associated with surface transportation of the equipment. This configuration allows the user to deliver a DS200 to the polling location after it has completed L&A testing and has been secured and ready for transportation to the polling place.
1.1.D.6	The ballot box shall be capable of withstanding transport conditions that may include extremely bumpy roads, exposure to extreme heat, cold, humidity and dust without incurring damage during transportation or becoming inoperable as a result of such transport.	Y		The DS200 ballot box is compact, portable, and easy to move around the warehouse or polling place. It includes handles and four heavy duty caster wheels. It is made of durable ABS (Acrylonitrile Butadiene Styrene) plastic material with steel-reinforced doors. Sturdy construction of the ballot box renders it capable of withstanding impact, shock, and vibration loads accompanying transportation. The DS200 ballot box is expected to meet minimum performance standards for exposure to physical shock and vibration associated with handling and transportation by surface and air common carriers.

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1.1.D.7	The ballot box shall be capable of withstanding frequent loading and unloading, stacking and unstacking, assembling, disassembling, reassembling, and other routing handling in the course of normal storage and operation.	Y		The DS200 ballot box is constructed with durable, scratch-resistant Acrylonitrile Butadiene Styrene (ABS) plastic materials, with steel-reinforced base and doors, and four lockable, swivel caster rollers on the bottom of the box for easy transportability. As opposed to a folding ballot that exposes election workers to pinch points and complexity of assembly on election morning, the ES&S plastic ballot box is solid state. The plastic base is designed for strength, and the plastic material complies with the UL 94V-0 specifications for flammability safety.
1.1.D.8	The Contractor shall document and explain any available special features of the ballot box that demonstrates water resistance features.	Y		The DS200 carrying case, which serves as the top of the DS200 plastic ballot box, is hard-sided, dust and moisture proof for transportation and storage of the tabulator. The case is designed to protect the DS200 from water damage during transport and storage, and has passed rain and dust tests in Florida certifications that are above and beyond any EAC or state requirements. The DS200 ballot box is made of durable ABS (Acrylonitrile Butadiene Styrene) plastic material with steel-reinforced base and doors. A heavy-duty rubber seal in the DS200 carrying case lid protects the DS200 against the elements such as dust, moisture and wind.
1.1.D.9	OPTIONAL REQUIREMENT: The Contractor shall document and explain any available ballot box storage-friendly options (such as the capability of collapsing or stacking boxes for more efficient storage).	Y		The DS200 carrying case and the DS200 scanner are attached to the top of the ballot box during use. Between elections, the scanner and carrying case can be removed from the ballot box and stored separately. In that case, up to five ballot boxes can be nested together to save storage space. It is also possible to store the unit with the carrying case still attached to the ballot box (with or without the DS200 scanner inside).

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
E. COTS (Commercial Off the Shelf) options				
1.1.E.1	The Contractor shall identify any and all COTS components proposed as part of their overall voting systems solution (e.g., printers, tablets, etc.). Replacement purchase sources for all identified COTS components are identified in Schedule C, Pricing; COTS parts identified shall be made available to counties and local jurisdictions.	Y		COTS components listed in Schedule C, Pricing include replacement purchase sources for all identified COTS components except for those which, it is our understanding, the Counties plan to purchase separately. These are listed in Schedule C, Pricing.
1.1.E.2	The Contractor shall identify any and all COTS supplies and replacement parts that may be utilized by their system (e.g., memory devices, ink cartridges, batteries, etc.). COTS options for supplies/replacement parts are strongly preferred.	Y		In Schedule C, Pricing , please see the listing of all COTS supplies and replacement parts that may be utilized by the Contractor's system.

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1.1.E.3	The Contractor shall identify and describe in detail any plans under development for upgrades / enhancements to systems that further utilize COTS components, supplies and replacement parts.	Y		Contractor incorporates COTS items where practical. Internal components such as displays, touch screens, motherboards (CPU), and memory modules are some examples where the required functionality is readily available off the shelf. For these, Contractor constantly monitors availability, changes in technology, and opportunities for improvement. Countering this are a handful of election processes that Contractor keeps a tight rein on. These are the imaging of the paper ballot and the transport of election results. By controlling our scanners and election media, we can assure accurate and secure results. Contractor continues to look for COTS alternatives, but so far the risks have outweighed the benefits. All that being said, Contractor constantly monitors the supply chain for new COTS components that offer our customers cost or performance improvements to their existing system. When the team identifies COTS components that decrease product cost or increase product performance, the certification and development costs are weighed against the product benefits. If the benefits outweigh the implementation cost, the new COTS component enters development. We must balance the value of lower-cost COTS components with the requirements of sustainability for the election industry. If the sustainability costs are too high for a COTS component over the 10+ year life of the product, then we decide COTS is not the direction to go for that particular instance. However, Contractor has recently implemented many COTS components into our go-forward suite of voting solutions. Below are some examples of the COTS components and supplies we have recently implemented or will be adding to our suite in future releases: 1. ExpressVote: QR Code Scanners, Thermal Paper Rolls, Headphones (EVS 5.2.2.0 and EVS 5.3.2.0 - EAC certified on February 27, 2017) 2. DS450/DS850: Printers, Universal Power Supply (EVS 5.2.2.0 and EVS 5.3.2.0 - EAC certified on February 27, 2017) 3. DS200: Thermal Reverse Wound Paper Rolls (EVS 5.2.2.0 and EVS 5.3.2.0 - EAC certified on February 27, 2017)

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1.1.E.4	The Contractor shall identify new COTS options over the course of this Contract, as the market changes and/or as existing COTS components become obsolete. COTS options provided to other states must be identified to the State, with an option and plan for implementing other available COTS options through the life of this Contract.	Y		The Contractor's sustaining engineering department constantly monitors the supply chain for new COTS components that offer cost or performance improvements to an existing system. When the team identifies COTS components that decrease product cost or increase product performance, the certification and development costs are weighed against the product benefits. If the benefits outweigh the implementation costs, the new COTS components enter development. Since COTS components become obsolete so quickly, Contractor rarely identifies improved COTS components before the current COTS component is obsolete. Contractor's sustaining engineering team has dealt with COTS component obsolescence for years. • DS200 motherboard • DS200 DRAM • DS200 modems • DS200 display • DS200 external power supply Contractor has kept a consistent look and feel of the DS200 overall while replacing all of the internal COTS components. This allows customers to purchase new DS200s, place them alongside existing DS200s, and provide the exact same voter experience to all voters, while taking advantage of improvements in COTS components. Jurisdiction across the nation takes advantage of the DS200's upgraded COTS technology while providing consistent voter experience. Contractor's sustaining engineering team will continue to monitor all COTS components in all of our systems. As end of life (EOL) or component improvements become available, we will continue to make wise choices with our customers in mind, to ensure our fielded voting systems remain viable for new and existing customers.

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F. Reliability Requirements				
1.1.F.1	All voting system components shall be able to perform in a wide range of climates and humidity levels without ballot jams or other malfunctions.	Y		All devices have been designed to meet or exceed 2005 Voluntary Voting Systems Guidelines (VVSG) requirements for performance in a wide range of climates and humidity levels without ballot jams or other malfunctions. DS200 <i>OPERATION:</i> Tested Temperature Range: +60 to +100 degrees Fahrenheit Tested Relative Humidity Range: 10% to 50% <i>STORAGE:</i> Storage Temperature Tolerance Range: 0 to +120 degrees Fahrenheit Storage Relative Humidity Tolerance Range: 10% to 85% DS450 <i>OPERATION:</i> Tested Temperature Range: 50 degrees Fahrenheit to 95 degrees Fahrenheit Tested Relative Humidity: 10% to 88% <i>STORAGE:</i> Storage Temperature Tolerance Range: -4 degrees Fahrenheit to +140 degrees Fahrenheit Storage Relative Humidity Tolerance Range: 10% to 88% ExpressVote <i>OPERATION:</i> Tested Temperature Range: +60 to +100 degrees Fahrenheit Tested Relative Humidity Range: 10% to 50% <i>STORAGE:</i> Storage Temperature Tolerance Range: 0 to +120 degrees Fahrenheit Tested Relative Humidity Range: 10% to 85%
1.1.F.2	The Contractor shall detail features of the system that are designed to avoid ballot jams.	Y		The DS200 and DS450 have been uniquely designed to accept ballots that have been folded. The paper transports on both scanners safely guide folded ballots through the read heads to avoid paper jams or misreads. The DS450 uses a patented technology known as TruGrip™, to provide constant contact with each ballot. The DS450 utilizes the same roller technology with 17 rollers. The ExpressVote has been designed to minimize jamming of the thermal card stock/ballots. The easy side door access allows the ability to quickly and simply clear jams of damaged card stock/ballots.

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.F.3	In the event of a ballot jam, the tabulator shall accurately state whether the ballot was tabulated; this statement must also be available in the system audit log.	Y		DS200 BALLOT JAM RECOVERY The DS200 is designed for easy recovery from errors such as ballot jams, multiple feeds, or any other type of feed error. When a jam occurs, the screen displays instructions about resolving the issue, making it easy for poll workers to know whether a ballot needs to be rescanned or was already successfully tabulated. For example, the following message appears in response to a multiple feed: • Multiple ballots were detected - Please remove ballots and insert them one ballot at a time. Ensure your ballot is not folded or damaged. In the case of a ballot jam, the exact message displayed is determined by the location of the ballot and the conditions that caused the jam. The following are examples of possible messages: • Your ballot has been counted but it didn't drop into the ballot box. • Ensure the ballot causing the jam has been deposited into the ballot box. • Ballot Jam. Please check the paper path. • Your ballot has been counted. The following error has occurred. <a message number appears to help identify the cause of the error> • Ballot Jam - Your ballot has NOT been counted. In general, when a ballot jams while in the scanner, it has not been tabulated. When a ballot travels past the scanner and jams as it enters the ballot box (perhaps with the trailing edge is still trapped in the scanner), the ballot has been tabulated. In either case, the touchscreen provides information about the jam, including whether the jammed ballot needs to be rescanned. Election workers can easily retrieve jammed ballots by lifting up the reader cover to remove the ballot from the scanner. If the ballot jams as it enters the ballot box, Election workers can easily determine whether the ballot path is open or closed, or the ballot box needs to be emptied. The DS200 audit log (Event Log Report) provides a record of every action taken on the DS200 (by poll workers or voters, for example), and of every internal or
1.1.F.3 <i>continued</i>				system action taken by the DS200. Errors such as ballot jams are captured in the audit log and instructions about recovery from the jam are provided on the touch screen. DS450 BALLOT JAM RECOVERY The DS450 central scanner has an enhanced jam recovery feature, as described below. When a jam occurs, the screen will present instructions for clearing the jam. Dynamic screens will indicate where the jam occurred and identify which bins contain ballots that were successfully scanned. For example, if the jam occurs in the transport but all ballots in the output bins were successfully scanned, the operator is given the option of retaining the results for the scanned ballots, and rescanning only the other, not-processed ballots. Based on preference or jurisdictional requirements, the operator can still choose to rescan all ballots in the run, even the ones that were scanned successfully. The DS450 will be able to determine if all ballots should be rescanned, or only the ballots in certain bins, or only the ballots remaining in the transport.

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Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.F.4	In the event of a ballot jam, the ballot track shall be easy to clear.	Y		DS200 The DS200 is designed to recover from errors such as feed jams, multiple feeds, or any other type of feed error that causes the machine to reject an individual ballot. The DS200 will detail the nature of the error or failure condition and provide the means to correct, without loss or corruption of ballot count or data previously stored. If a ballot is jammed in the DS200, the voter will receive a message on the large LCD screen stating , “Ballot Jammed; the ballot has not been counted.” The DS200 ballot transport mechanism area is easily accessible by the poll official by simply lifting up the reader door to reveal the ballot for easy removal. At that point, all the voter needs to do is feed the ballot back into the scanner for processing. DS450 In the event of a jam or misfeed, the DS450 user interface guides the user through a step-by-step process to clear the device. All exception messages are displayed on the large LCD screen in easy-to-understand text, along with instructions on how to clear the exceptions. The DS450 user interface ensures users understand which ballots are counted and complete, and which ballots must still be counted. The DS450 has an open transport design that allows for easy jam identification and removal.

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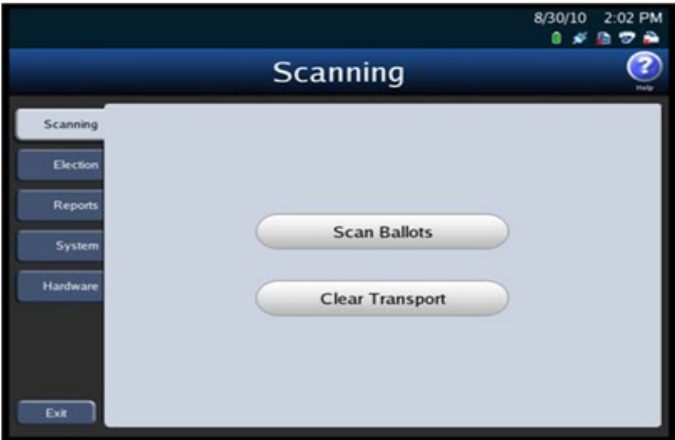
Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.F.4 <i>continued</i>				Scanning Menu Simply clear the ballot transport path in the Scanning menu by selecting Clear Transport. The following is an example of the Scanning menu. 
1.1.F.5	Voting system components shall be transportable, without damage to internal circuitry	Y		ExpressVote The ExpressVote has been designed to minimize jamming of the thermal card stock/ballots. The easy side door access allows the ability to quickly and simply clear jams of damaged thermal card stock/ballots. DS200 The DS200 is provided with a protective enclosure rendering the equipment capable of withstanding the transportation and storage requirements outlined in the 2005 Voluntary Voting Systems Guidelines (VVSG), Volume I, section 3, subsections 3.3.3, "Transport and Storage of Precinct Systems," and 3.2.2.14, "Environmental Control – Transit and Storage." The DS200 digital scanner's internal components, including circuitry are enclosed in a rugged, impact resistant GE C6600 – Polycarbonate Acrylonitrile Butadiene Styrene (ABS) plastic housing. The terminal's outer coloring is integrated into the plastic to prevent chipping or scratching on the outside surface. The DS200 is protected during storage and transportation in the included carrying case. The lockable case is capable of withstanding impact, shock, and vibration loads accompanying private ground transportation. The unit's durability is further enhanced when the DS200 carrying case is attached atop the DS200 ballot box bin during storage and transit to the polling location.

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1.1.F.5 <i>continued</i>				DS450 Contractor's cutting-edge, digital image-based central count solution, the DS450, which scans each ballot with unrivaled speed and accuracy—especially folded ballots. Due to its size and intended purpose, the DS450 is not designed for transport from polling place to polling place. However, the DS450 sits on a custom-designed table, which will allow excellent portability within the polling place, provide a user-friendly location for the device printers and ancillary supplies and help prevent damage to internal circuitry. ExpressVote Certification testing for EVS 5.2.0.0 required that the ExpressVote be tested for and pass 2005 Voluntary Voting Systems Guidelines (VVSG) 1.0 Vol 1: 4.3.2, 4.3.3, 4.3.5, 4.3.7; Vol II: 4.7.1, 4.7.2, 4.7.3, and 4.7.4 The lightweight device was designed for easy transportation to/from storage and vote centers. The soft-sided carrying case protects the ExpressVote's internal circuitry.
1.1.F.6	Voting system components shall provide a method for immediately detecting a malfunction.	Y		All of the Contractor's system components employ strict software and firmware execution rules and use a sophisticated series of sensors and controls to ensure abnormal operation is detected and reported and the integrity of the data and security is maintained.
1.1.F.7	Voting system components shall prevent the loss of data during the generation of reports.	Y		All of the Contractor's system components have been designed to protect the integrity of the source vote data when reports are being generated, including physical and programmatic lock down key components and features. ES&S performs extensive negative testing to purposely attempt to create issues and designed the system operation to have the greatest chance of recovery.
1.1.F.8	The tabulator backup battery shall be continually charged while the unit is plugged in.	Y		DS200 The DS200 internal backup battery is a 21-volt, 10 cell lithium-ion battery that obtains its charge automatically from the system power supply any time the unit is plugged in, whether it is turned on or not. DS450 The DS450 uninterruptible power supply (UPS) obtains its charge automatically from the system power supply any time the unit is plugged in, whether it is turned on or not. When facility power is lost, the DS450 seamlessly transitions to provide power to allow scanning of the current run to complete and a controlled shutdown when power is exhausted to protect againsts data loss..

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1.1.F.9	The Contractor shall indicate the amount of backup battery life (i.e., number of hours) in the event of a power outage. The Contractor shall indicate if there is a difference in battery usage for a tabulator in use vs. a tabulator at rest.	Y		DS200 The DS200 contains an internal backup battery that maintains the system in the case of a power failure during the election process. The battery is a 21-volt, 10 cell lithium-ion battery that needs no special maintenance. The battery obtains its charge automatically from the system power supply any time the unit is plugged in. It ensures complete protection from power failure and provides a minimum of two (2) consecutive hours of heavy operation in the event of a power failure and can last significantly longer during light scanning. The battery is floating on the system, meaning the battery kicks in immediately without system impact. When the battery gets low, the system will have a graceful shutdown to ensure no ballots are being scanned or data is being written to the USB memory device when it loses power completely. When power returns, a recovery procedure allows voting to continue where it left off. DS450 When facility power is lost, the DS450 seamlessly transitions to provide power to allow scanning of the current run to complete and a controlled shutdown when power is exhausted to protect against data loss.
1.1.F.10	The backup system shall remain in operation during power surges or other abnormal electrical occurrences.	Y		DS200, DS450, & ExpressVote All Contractor's components are designed to use their respective backup power features to automatically respond to power issues without impacting the operation of the unit. This includes the seamless switchover to battery power when AC power is lost, as well as a controlled shutdown of the unit when battery power is exhausted. In addition, data from completed voting sessions on precinct devices and from saved batches on central count units is saved to nonvolatile memory and is therefore preserved in the event of a sudden loss of the electrical connection or failure of the backup battery. Significant work has been done to ensure that units can recover from significant failures. No system can account for every possible catastrophic hardware failure. But, Contractor has spent years performing negative testing of such failures to make the system as robust and recoverable as possible.
1.1.F.11	The backup system shall engage immediately with no loss of data in the event of disruption of electrical connection or failure of battery backup. In the event of the failure of a unit, the system shall retain a record of all vote totals accumulated prior to failure.	Y		DS200, DS450 & ExpressVote All Contractor's components are designed to use their respective backup power features to automatically respond to power issues without impacting the operation of the unit. This includes the seamless switchover to battery power when AC power is lost, as well as a controlled shutdown of the unit when battery power is exhausted. In addition, data from completed voting sessions on precinct devices and from saved batches on central count units is saved to nonvolatile memory and is therefore preserved in the event of a sudden loss of the electrical connection or failure of the backup battery. Significant work has been done to ensure that units can recover from significant failures. No system can account for every possible catastrophic hardware failure. But, Contractor has spent years performing negative testing of such failures to make the system as robust and recoverable as possible.
1.1.F.12	The Contractor's system shall have the capability of generating exportable backup files for offsite storage.	Y		Electionware provides a method to backup the Election definition and Election Reporting Manager provides a method to backup the election results. Electionware enables the user to backup the entire election database for archiving in off-site storage.

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1.1.F.13	The Contractor's system shall automatically adjust for changes due to Daylight Savings Time (DST).	Y		DS200 No special maintenance is required for the DS200 during daylight savings time (DST) changeover. The DS200 automatically adjusts the tabulator clock to DST in compliance with the current DST changeover schedule. DS450 Although the DS450 does not automatically adjust for daylight savings time, the time can easily be adjusted manually. The user is allowed to change the time when there is no ballot data on the scanner. If there is there is ballot data on the scanner, administrators can follow the process for exporting data, clear the DS450, and then update the time. ExpressVote The ExpressVote contains a setting to automatically adjust for DST.

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G. Security				
1.1.G.1	The Contractor's system shall permit the diagnostic testing of all of the major system components. The Contractor shall document all types of automatic diagnostic tests that are available to be run before the opening of the polls and while polls are open.	Y		DS200 The DS200 circuitry provides diagnostic testing for verifying the condition of the system. Upon startup, the DS200 automatically performs a series of internal system diagnostic checks. These checks are always executed on startup. Automatic self-tests include checking the scanner software, checking the printer, and other system checks. A report of the test results will be generated automatically. Reports include the automatic printing of the Configuration, Status, and Zero Reports, which provide all the information needed to verify equipment readiness. Users also have the ability to print the Audit Log – a report showing all scanner operations since election definition loading. If any of the system tests fail, the unit will not enter the vote mode. Additionally, the DS200 scanner allows the technician to run a hardware diagnostic routine and report from the Administrative Menu. Selecting Hardware Diagnostics displays the correct hardware settings. Officials can use the options under the Hardware Diagnostics menu before and after an election to verify that all scanner functions work correctly. Users can print a copy of the scanner's hardware settings by pressing Hardware Report. Including power up, the entire diagnostic testing procedure is completed in 3-5 minutes.
1.1.G.1 <i>continued</i>				To detect and record every event and unrecoverable system error condition, all DS200 errors are displayed on the LCD and if possible, the printer. If the DS200 Election Media is installed and is readable by the tabulator, the error will be recorded in the Audit Log. Exception/Errors are divided into two categories. The first category is the non-system halting category. Errors in this category do not jeopardize the election results, and will allow the user to continue on using the machine. The second category is the system halt category. Errors in the system halt category may jeopardize the election results and thus the system in order to let the machine re-test itself and check the validity of the DS200 Election Media data. System halt errors are logged to the audit log prior to the system shutting down. Events that are time-dependent or programmed, such as the DS200 closing for voting at the designated polls close time, generate an on screen message and are recorded to the system audit log. The DS200 records two types of event reports. One is a summary of critical events, and the other is a printout of all election events (also known as the Audit Log Report). Each event logged includes a timestamp identifying when the event occurred and a brief description of the event. These events are stored on the DS200 Election Media. The Critical Events Report is a report of all the critical events that have occurred thus far in relation to the Election Definition. Examples of such events are Polls Opened, Clear Totals Report, Election Definition Loaded, and Election Test Mode.

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1.1.G.1 <i>continued</i>				The Audit Report is a report of all the events that have taken place during the election process. It also includes the total number of write-ins, reject ballots, and blank ballots. When setting up the machines, the jurisdiction would normally conduct pre-testing to ensure the correct firmware is installed in the voting devices. Firmware version is displayed on statuses and diagnostic reports generated upon machine startup or by running a validation hash check test. A hash check should be run by the jurisdiction prior to logic-and-accuracy (L&A) testing to ensure that the firmware and operating system code on the machine is identical to the hash code approved by certification authorities. Successfully completing this validation on each device to be used during the election provides confidence that the data on the machine exactly matches the files in the certified source code. Using the procedures and scripts provided by Contractor, the election official would validate the code as follows: 1. Using a trusted source, either a trusted Image or files obtained from a trusted machine, by using Step 2 below, create a list of trusted files and their hashes. 2. In the Admin screen of the DS200, select Create Validation Media to extract the files to a USB memory device. 3. Remove all dynamic and/or semi-static files 4. Create a list of file hashes to be validated against the trusted hashes. 5. Compare the trusted hashes against the list of hashes to be validated.
1.1.G.1 <i>continued</i>				Upon initial power-up, the DS200 automatically performs a series of internal system diagnostic checks. These checks are always executed on startup. If any of these checks fail, the failure is logged and system operation may be limited or disallowed. Automatic self-tests include checking the scanner software, checking the printer, and other system checks. As noted, the DS200 can generate and in some cases automatically print various reports including Configuration, Ballot Status, and Zero reports, which provide all the information needed to verify equipment readiness. Users also may print such reports on demand. Additionally, all hardware devices have significant hardware diagnostic capabilities available via administrative menu options, allowing technicians to run and diagnose key hardware components. Users also have the ability to print the Event Log (audit log), which is a report showing all scanner operations since election definition loading. If any of the systems tests fail, the units will not enter the vote mode. If a failure occurs, the DS200 will attempt to display an appropriate error message to the operator and will then shut down. In addition, users will use live, printed ballots to conduct Logic and Accuracy testing of the DS200s to the accuracy of the election programming definition. During this testing, Contractor verifies: • All locations and accepted ballots per location. • The desired handling of over-voted, under-voted, and blank ballots. • That sets of scripted results are transferred correctly into the reporting system. • The types of reports the jurisdiction wants for Election Day and generates the reports using test data.

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1.1.G.1				
<i>continued</i>				DS450 The DS450 performs automatic self-tests that verify equipment readiness. In addition, the device has significant hardware diagnostic capabilities available through the administrative menu, allowing technicians to run and diagnose key hardware components. Upon startup, the DS450 automatically performs a series of internal system diagnostic checks. These checks are always executed on startup. If any of these checks fail, the failure is logged and system operation may be limited or disallowed. Automatic self-tests include checking the scanner software, checking the printer, and other system checks. As noted, the DS450 can generate and in some cases automatically print various reports including Configuration, Status, and Zero reports, which provide all the information needed to verify equipment readiness. Users also may print such reports on demand. ExpressVote Self-diagnostic tests verify that firmware is properly installed upon system startup. Initial reports identify the installed election program and firmware versions. Any errors loading system firmware or election programming result in equipment shutdown with a clear error message. See Contractor's Operator's Guides for a description of equipment startup procedures and instructions for printing and reading equipment initial reports.

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Technical Requirements

Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
1.1.G.2	The Contractor's system shall ensure that each voter's ballot is secret and the voter cannot be identified by image, code or other methods.	Y		DS200/DS450 When a voter casts their ballot on the DS200/DS450, if exceptions exist such as overvotes, the ballot remains in the machine unless the voter requests the ballot be returned. Every ballot cast is assigned a random 16-byte identifier and all the ballot Cast Vote Records (CVR) and ballot images are stored with exactly the same timestamp. This effectively decouples any association of the ballot to the voting order to guarantee voter privacy. The ES&S Voting System (EVS) software can configure the tabulators to save the front and back images of all processed ballots or just ballots containing write-in votes. For every ballot cast, the tabulator also stores a CVR file. The ballot CVR and the images are signed by a machine-specific private key. When results are transferred, these CVR files and images are encrypted and signed again to allow for secure transport. The ballot images are stored in a Tagged Image File Format (TIFF). Since the image files are encrypted, the files on the election media are not externally viewable. ExpressVote The ExpressVote has numerous options for protecting a voter's selection both on the screen and in printed form. In a stand-alone mode, the ExpressVote can be setup with privacy shields to obscure viewing of the ballot on screen. In paper form, the paper summary record is fully inside the unit at all times. In stand-alone mode, the jurisdiction can offer privacy sleeves for transporting the printed vote summary record to be scanned on the DS200.

ELECTION SYSTEMS & SOFTWARE, LLC CONTRACT No. 071B7700120**Exhibit 2, Attachment 1.2 Voting System****ELECTION MANAGEMENT SYSTEM (EMS) SOFTWARE****Technical Requirements**

Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
A. Election Management System (EMS) - General Requirements	For each listed requirement, the Contractor shall provide a detailed description demonstrating how the EMS fulfills each requirement. The Contractor's EMS shall:			
1.2.A.1	Be designed to operate in a windows environment (at a minimum Window 7) and have the ability to adapt to upgrades in operating systems.	Y		EVS 5210 is currently certified with Windows 7 64-bit Operating System. Each Microsoft Windows 7 based PC configuration is a single dedicated Election Management System workstation. Operating system upgrades are typically provided along with new system features in subsequent and ongoing releases. However, these cannot be used in MI until a new operating system is included in an EAC-certified release. The Electionware platform provides the infrastructure to use specific COTS software such as for the operating system, printer, print drivers, and power management.
1.2.A.2	Be designed with several levels of security to detect/resist hacking and unauthorized access and use. Security patches must be released as deemed necessary by the manufacturer, with prompt written notification to the State.	Y		Election Management System (EMS) Election administrators may use access control and role assignment features within the software to restrict access for programs installed. Jurisdictions must physically secure any computer system that contains ballot definition files, data acquisition software, or reporting software from access by unauthorized persons. Contractor shall provide authorized users with additional detail and guidance on the proper security methods and controls to be employed with the specific ES&S products they are implementing All ES&S memory devices used are encrypted to prevent unauthorized modifications or copying of data. Our ballot layout and election configuration data are secured to prevent unauthorized modification or copying of the data and to resist hacking and unauthorized access and use. As an original manufacturer, Contractor will release security patches as we deem necessary and provide a prompt, written notification to the State in the event of a necessary release. Contractor shall provide authorized users with additional detail and guidance on the proper security methods and controls to be employed with the specific ES&S products they are implementing

1.2.A.3	Include an operational support plan for the EMS software for security patches, bug fixes and regular Maintenance Releases. Contractor shall provide information with respect to the Contractor's projected response times to: - o Synchronize and implement a regular Maintenance Release, after the Maintenance Release is posted. - o Provide bug fixes in a timely manner. Contractor should provide an expected response timeline for different bug severity levels (e.g. Critical bug fix within 1 week, non-critical – next patch period etc.). - o Provide security patches within no more than 72 hours of release.	Y	REGULAR MAINTENANCE RELEASES Contractor provides annual new releases. These enhancements accommodate new and different election scenarios, to enhance performance and usability, and to improve security and reliability. Contractor works directly with customers when a new version is available for upgrading. After each release, we work directly with customers to gather feedback regarding the system and identify potential enhancements or bugs that need to be fixed. With each successive release, we incorporate these enhancements whenever possible. SECURITY PATCHES AND BUG FIXES Upon learning of a bug or patch, Contractor will immediately engage a risk management team to assess the severity of the issue. This team will likely consist of members from the jurisdiction, Contractor, Voting System Test Labs, and potentially the EAC. In addition to this team, Contractor will engage our Change Control Board for assistance with release planning for a potential fix/patch. At this time, we should have adequate data to supply the jurisdiction with timelines for development, testing, certification (if applicable), and installation of the fix/patch at the jurisdiction's site. Contractor will make every attempt to comply with releasing security patches within no more than 72 hours of release. Contractor's voting systems are EAC-certified as closed networks without exposure to the internet or other outside networks, and therefore not as vulnerable to virus or other attacks. In the event a potential vulnerability is identified, such as the US-CERT National Cyber Awareness System notification regarding the OpenSSL vulnerability known as "Heartbleed" in April 2014, Contractor will take immediate action to assess the impact, report impact of the vulnerability to the system, and steps to be taken to install the appropriate patches for the vulnerability. This information will be provided to Michigan Board of Elections and the EAC.
1.2.A.4	Implementation of security upgrades/patches will be available for the life of the contract, with specific plans for each upgrade/patch determined by mutual agreement by the Contractor and State.	Y	During the Initial Service Period and Extended Service Period, Contractor will provide new releases, upgrades or maintenance patches to the System Software or EMS Software, together with appropriate Documentation ("Updates"), on a schedule defined by Contractor as may be mutually agreed upon by the parties. The State or Authorized User is responsible for obtaining any upgrades or purchases of third party items required to operate the Updates. The State or Authorized User may install the Updates in accordance with Contractor's recommended instructions or may request that Contractor install the Updates. If the State or an Authorized User requests that Contractor install the Updates and Contractor is unable to install the Update in conjunction with a routine maintenance event or other previously scheduled repair visit, Contractor may charge the State or Authorized User to install such Updates in accordance with the pricing set forth in Schedule C. In addition, in the event the State or Authorized User requests that Contractor train the State or Authorized User on the Updates, Contractor may charge the State or Authorized User for such training in accordance with the pricing set forth in Schedule C. The State and/or Authorized User shall be responsible for the payment to Contractor for any Update, which is required due to a change in applicable law in accordance with the Section 1.5D, Modification Requirements of Schedule A - Statement of Work. Also refer to Schedule A, Statement of Work, Section 1.6 Service and Maintenance.

1.2.A.5	Allow system administrators to establish different levels of user permissions.	Y	Electionware EMS Administrators use the Electionware Setup module to create and configure different levels of user permissions. There are currently 5 levels of Electionware users: 1. "Administrators" (access to all modules); 2. "Users" (access to all modules except the Setup module), 3. "Ballot Producers" (access to only modules related to printing ballot PDFs), 4. "Media Creators" (access to only modules related to creating USB memory device tabulator media); and 5. "Ballot Reviewers" (access to only modules related to reviewing ballot images and their corresponding Cast Vote Records). For those users with limited roles, modules not applicable to the user are not displayed in Electionware. This ensures control over your election definition. Each user has a unique name and password. Also, users are assigned to specific user groups to log onto the Windows server and workstations. These Windows-based roles, include three (3) default groups: • ElectAdmin (has access to all ES&S applications installed on the system); • ElectDefine (has access to applications required to define the election); • ElectResult (has access to applications required to create and report election night results).
1.2.A.6	Permit routine users access to the application without requiring administrative privileges on the PC operating system.	Y	The Windows user accounts and groups are created in the Windows User Management module. An Electionware user is not required to be a Windows operating system administrator.
1.2.A.7	Require all users to have a unique login credentials (username and password).	Y	All users must have unique login credentials (username and password). Electionware incorporates the very latest in election security, including heightened audit controls and change management processes that are built in to make sure your election data is safe and secure. • Electionware requires users to enter a valid username and password prior to gaining access to the application. The username and passwords are stored in an encrypted database. Strong password methodology is utilized which requires the password to be at least 8 characters long and include at least one number, one upper case letter, one lower case letter and no spaces. • The system administrator creates unique user IDs for each user allowed to log onto the EMS workstations. Election personnel allowed access to the shared folder on the server receive a second unique share user ID and password. • Access to Election Reporting Manager (ERM) is controlled by system-wide username/password credentials administered and created by the System Administrator. Access privileges to certain features and functions within ERM can be controlled within the application itself.

1.2.A.8	Secure the ballot layout and election configuration data to prevent unauthorized modification or the copying of such data.	Y	Our ballot layout and election configuration data are secured to prevent unauthorized modification or copying of the data. Electionware incorporates the very latest in election security, including heightened audit controls and change management processes that are built in to make sure your election data is safe and secure. • Electionware requires users to enter a valid username and password prior to gaining access to the application. The username and passwords are stored in an encrypted database. Strong password methodology is used that requires the password to be at least 8 characters long and include at least one number, one uppercase letter, one lowercase letter, and no spaces. • The database data directory is only accessible by the operating system administrator group and not by the regular Electionware user role. • The database server accesses data through a password-protected service account, protecting all Electionware database files from direct access. • Electionware saves a record of all user actions with username to the system audit log. • System security for Electionware limits casual access to system files but security also depends on sound practices at the election office. Officials are required to implement a strong physical and procedural security plan that limits access to Electionware to authorized personnel only. Election officials should also make sure that the PCs running Electionware remain secure before and after each election.
1.2.A.9	Allow manual data entry for election setup and ballot layout.	Y	Electionware allows for both manual data entry and import of properly formatted election files. Manual entry is simplified with shortcut keys and certain fields are auto-populated for the user. Each data element allows up to 10 unique additional fields for more flexibility in how the election data can be displayed on the ballot. Electionware's Paper Ballot layout module offers a powerful and versatile ballot layout process. Once ballots are formatted as needed, users can create one or as many ballot templates as needed.
1.2.A.10	Securely encrypt election configuration data to be exported to the tabulator and accessible voting system component(s) per the 2005 VVSG recommendations.	Y	All election data for our precinct scanner/tabulators, central scanner/tabulators and ADA voting equipment are securely encrypted per 2005 VVSG recommendations. During election creation, a unique Federal Information Processing Standard (FIPS) Random Number Generator (RNG) generates an AES key and an election-specific Public/Private key pair. The election definition sent to the devices on the Election Media is encrypted using a password-based derived key of the Election Access Code and signed by the election specific private key. The election-specific AES key sent to the tabulators and accessible voting system component on the Qualification Media is used to encrypt data from the tabulators to the EMS. In addition to encryption, all encrypted data is further signed using a machine-specific private key generated during the Qualification process on the tabulator. The incoming Election Media containing results are sign-verified first to ensure authenticity and then decrypted for results accumulation. This feature is planned to be a configurable item in EVS 6.2.0.0, expected to be released in the Fall of 2017. This functionality is not part of the release that contains the Reporting Module project. This functionality will be available in a subsequent release.

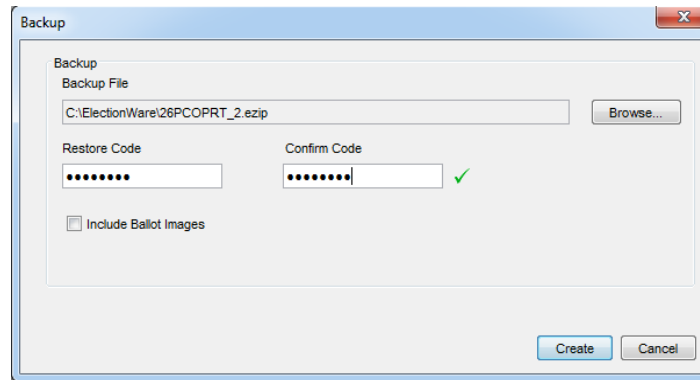
1.2.A.11	Contractor shall identify all software components utilized by the EMS system, including customized vendor software, as well as others (e.g., Adobe) included and utilized by the overall EMS package.	Y	Note: For version numbers, please refer to Exhibit 1 to Schedule A: Federal Voting System Testing Certification Matrix. Version numbers depend on the certification of the system being installed. County Option 1 – Full EMS Our full EMS for the counties and State are listed in Exhibit C, Pricing and consists of: • Electionware Program Your own (PYO) (Home, Capture, Element Library, Paper Ballot, Accessible Ballot, Configure, Package, Print, Acquire, and Produce Modules) • Election Reporting Manager • Electionware Results - Web-based Election Night Reporting • Automated Test Deck Creation (Michigan-specific) • Text to Speech functionality (Synthesized audio for English, Spanish, and Bengali) • ERM Results Export Program (EXP Utility) Optional: • Regional Results/Transmission • ExpressLink County Option 2 - Accumulation Only Under the license we are providing to the counties listed as Accumulation Only in Schedule C, Pricing, individual jurisdictions will have a license to cascade down to local jurisdictions: • Electionware Base Package – Reporting Only (Home, Acquire and Produce Modules) • Election Reporting Manager • Electionware Results - Web-based Election Night Reporting • Automated Test Deck Creation (Michigan-specific) • Media Burn (Package Module) • ERM Results Export Program (EXP Utility) Optional: • Regional Results/Transmission • ExpressLink Local Jurisdiction EMS – Accumulation Only Includes everything listed under County Option 2. Each County would distribute copies of the software to the local jurisdictions as they see fit and at no additional charge. Definitions • Electionware – Election management system composed of modules - o Home – Manage elections and election templates, check election status - o Capture – Create election database; add languages, including audio; add or import election data; generate ballot styles; import ballot translation scripts; and more - o Element Library – Manage electronic elements like system translations, audio, graphics - o Paper Ballot – Design tool to convert election database into finished ballot layouts - o Accessible Ballot – Import or edit visual and audio elements of election - o Configure – Manage equipment settings, security codes, and generate election files for equipment - o Package – Burn election media - o Acquire – Load election results files; view, print and export details - o Produce – View and filter ballot records, print ballot scan images and facsimiles, export ballot images, Cast Vote Records, write-in images, reporting, and more • Election Reporting Manager – Collect and report election results • Automated Test Deck Creation (MI-specific) - Test the election on each voting machine • Text to Speech - Create the audio files for the ES&S ADA-compatible voting equipment audio ballot • Regional Results - Standalone software application that is used to electronically transmit (i.e. modem) results from regional sites to County Elections Headquarters. • Electionware Results - Web-based Election Night Reporting

1.2.A.11 <i>continued</i>			• EXP Utility - The ERM Results Export Program (EXP) utility allows for the accumulation of multiple elections throughout the state and is customized to allow results to meet the state's needs. • ExpressLink – Standalone application that can be used to print ballot style barcodes on ExpressVote cards. Background Utilities: • Event Logging Service – Control user access and store detailed logs of actions performed in either program. • Removable Media Service (RMS) – Service supporting election media programming. • ExpressVote Previewer – Ballot preview for ExpressVote universal voting system Commercial Off-The-Shelf (COTS) Software: • Microsoft Windows 7 Professional 64-bit, SP1 – Operating System for standalone and client workstations • Microsoft Windows Server 2008 R2 SP1 – Operating System for EMS and results servers • WSUS Microsoft Windows Offline Update Utility – Software updates (update utility) • Symantec Endpoint Protection, 64 bit – Anti-virus • Symantec Endpoint Protection Intelligent Updater – Anti-virus • Cerberus SFT Server – Enterprise – File transfer server for precinct results network • Adobe Acrobat Standard XI – Desktop Publishing Software • Microfocus RM/Cobol Runtime – COBOL runtime • IPSwitch File Transfer WS_FTP Professional – File transfer client software for precinct or local results network (EMS Client)
1.2.A.11 <i>continued</i>			• Kiwi Syslog Server - Receives, logs and displays system messages. • Microsoft.NET - .NET Framework • Cisco A5505 Firewall - Firewall Also see Cost Table 5 which contains several possible scenarios and costs related to network requirements and configurations for implementing the available EMS software options.
1.2.A.12	Be capable of creating and defining ballot styles and contest rules in accordance with Michigan Election Law, Promulgated Rules and Ballot Production Standards.	Y	Contractor is familiar with Michigan Election Law, having assisted many Michigan jurisdictions for over 30 years. Contractor's system allows for the creation and definition of all types of elections from Generals to Open Primaries to Closed Primaries. Ballot styles are created within the Capture module and then formatted as needed in the Paper Ballot module.
1.2.A.13	Be capable of supporting ballot layout and election configuration to multiple languages (in Michigan, Spanish and Bengali are currently required). Contractor shall indicate current non-English languages that are supported by the Contractor's system, how the Contractor's system supports alternative languages, and describe the process for adding other languages not currently supported.	Y	As part of the ES&S Voting System (EVS) 5.2.2.0/5.3.2.0, the DS200 supports English, Spanish, Chinese, Korean, Japanese, and Bengali languages. In accordance with the Voting Rights Act of 1965, our customers are occasionally required to support languages that are currently not featured in the ES&S system. In this situation, the ES&S Product Development division follows a standardized process to design, build, and test the addition of the new language to the required products. ES&S has a solid track record of partnering with affected customers, seeking direct feedback and agreement on translations for voter facing screens and messaging. This release, EVS 5.2.2.0/5.3.2.0, is projected to complete EAC certification by February 28, 2017, per the requirements of Schedule A, Statement of Work.

1.2.A.14	Export election data elements and election configuration data to removable memory devices and either a LAN or wireless network; data elements must include but not be limited to:	Y	All data elements and election configuration data can be packaged onto removable memory devices for the purpose of burning media. These actions can be performed using the Media Burn function of ElectionWare (Package module provided to all jurisdictions as part of the Contractor's solution). The media data can be created from the Package module using a closed network. This data can then be exported via LAN or wireless network, allowing the local jurisdictions to burn their own media. All data elements and election configuration data containing election results are saved on removable memory devices. Election results may also be transferred via wireless network from the DS200. For the DS450, results can be exported or saved to removable memory devices or via a LAN.
	a. the sequence of candidates for each contest;	Y	The sequence of candidates for each contest is written to the USB memory device.
	b. the ballot issue;	Y	All applicable ballot issues are written to the USB memory device.
	c. the contest title;	Y	All contest titles are written to the USB memory device.
	d. the contest number;	Y	Contest numbers are written to the USB memory device.
	e. the office name and district, if applicable;	Y	Office names and districts are written to the USB memory device.
	f. the number of votes for a candidate or ballot issue;	Y	The number of votes for a candidate or ballot issue are captured on the USB memory device (DS200 precinct tabulator) or internal hard drive (DS450 central count tabulator). ES&S central tabulator can export the number of votes for a candidate or ballot issue to a USB memory device or transfer via LAN.
	g. the number of votes against a ballot issue or other contest where applicable;	Y	The number of votes against a ballot issue or other contests are captured on the USB memory device (DS200 precinct tabulator) or internal hard drive (DS450 central count tabulator). ES&S central tabulators can export the number of votes against a ballot issue or other contests to a USB memory device or transfer via LAN.
	h. the number of votes for candidates and/or issues by legislative, congressional or election district where applicable;	Y	The number of votes for candidates and/or issues by legislative, congressional or election district are written to the USB memory device (DS200 precinct tabulator) or internal hard drive (DS450 central count tabulator). ES&S central tabulators can export the number of votes against a ballot issue or other contests to a USB memory device or transfer via LAN.
	i. the number of ballots tabulated by party for open and closed primary elections;	Y	The number of ballots tabulated by party for open and closed primary elections is written to the USB memory device (DS200 precinct tabulator) or internal hard drive (DS450 central count tabulator).
	j. the type of result (e.g. precinct, absentee or provisional); and	Y	Each removable USB memory device, which is used to load the election onto the DS200 precinct tabulator and/or DS450 central count tabulator, is configured with certain precincts. The USB memory device can include one, some or all precincts as designated by the user. Electionware also allows the user to specify which kind of precincts are applied to a USB memory device (e.g. precincts or non-geographic absentee precincts or provisional non-geographic precincts). Electionware provides many different variations on what type of data is included on the USB memory device. The set-up within the software is designed to be intuitive and easy to use.

	k. the type of election (e.g. Presidential Primary, Presidential General, Gubernatorial Primary, Gubernatorial General).	Y	The type of election (e.g. General or Primary) is written to the USB memory device (DS200 precinct tabulator) or internal hard drive (DS450 central count tabulator). The Election Name (e.g. Presidential Primary, Presidential General, Gubernatorial Primary, Gubernatorial General) also is written to the removable memory device. Electionware provides the user with the flexibility of updating the election name as needed. This information can be included on tabulator reports, on the tabulator screen, and within Electionware and Election Reporting Manager software. This provides complete transparency as to what type of election is being worked on.
1.2.A.15	Shall be capable of utilizing the State Uniform Data Format (refer to Section and Attachment 1.5)	Y	The ES&S Voting System Election Management product supports the import of industry standard, comma separated values (CSV) files to load election Ballot Definition Data. ES&S has worked with many states and jurisdictions to create import files for a standardized election definition. Michigan's Uniform Data Format could be utilized to design Electionware import files. The format and layout is very similar. ES&S has experience assisting State of Michigan with uniform ES&S Unity election import files. We are happy to assist Michigan in creating uniform import files for Electionware. These files are very simple TXT files, which include field identifiers in each and every file to eliminate any guesswork in how the data is organized. Users can import all or only a part of the election with our simple 1-click election definition Import Wizard.
1.2.A.16	Be capable of storing, maintaining and reloading configurations and data from previous elections.	Y	Electionware enables the storage, maintenance and reload of configurations and election data. Electionware's Capture module offers a single-entry database that stores all of a jurisdiction's ward/voting location, office, and candidate information. Each individual election can be archived and subsequently restored as needed. Electionware also allows users to save an existing election as a template, which can be used as the basis for future elections. Finally, election templates may be edited similar to an election, allowing users to keep their templates updated between election cycles.
1.2.A.17	Accumulate election data for each election by precinct, precinct combinations, district, jurisdiction, and statewide.	Y	ES&S' results reporting program, Election Reporting Manager (ERM) is used to accumulate election results data from the DS200 and DS450 removable USB memory devices. ERM is also capable of receiving DS200 results electronically via wireless or landline modem (See Exhibit C, Pricing, Optional Items). Accumulating election night results in ERM is a quick and simple process. The system processes data in mere moments. At any time, users can produce many reports and/or export data in several different formats, some of which can be used for analysis in Microsoft Excel. Examples of ERM's numerous export formats include TXT, HTML, CSV, XML, and ASCII. What's more, Electionware also exports a number of different reports directly to Microsoft Excel (XLSX) format. ERM is capable of creating a variety of hard copy or electronic reports for election night and during canvass operations. The reports can be printed in a variety of formats, displayed on a website, or displayed on a monitor in a central viewing area. ERM's primary function is to accumulate results data from ES&S tabulation devices. ERM has various results reports that can be categorized as Precinct, Election Summary or Canvass (spread sheet style with columns for candidates and rows for precincts) each with a variety of formats. Any election summary or canvass report can be created to only include all or only designated precincts and contests. Thus, reports can be generated for precinct combinations, districts and jurisdictions. If a contest creates a split within a precinct, then the entire precinct's results will be included in the results reports. Also, customized reports that include specific contest and/or precinct selections can be set up in advance or they may be created ad hoc as needed.
1.2.A.18	Tabulate results for individual groups and integrate the results from selected or all groups into cumulative results.	Y	ES&S scanners and tabulators tabulate all results by poll media. The poll media is processed in ERM with up to 14 unique user definable groups. These results are automatically included in the cumulative results unless the user specifies they are not to be included.

1.2.A.19	Store tabulated results from each absentee and precinct group as separate totals within a precinct.	Y	ERM aggregates results by precinct into user defined results groups. As election results are read in to the system, they are segregated into the appropriate group. Groups are created at the discretion of the user and keep the results for different types of voting separate from one another. Examples of typical results groups include Absentee, Early Voting, Election Day, etc. The results in the various groups - while remaining separate for reporting purposes - are also automatically combined to provide a grand total for each precinct. Precinct and summary results can be reported in summary with or without group results breakdown. Other options are also available.
1.2.A.20	Save election data configurations with election results data on removable storage media for archiving purposes.	Y	The election data configuration with election results data is saved on a removable USB memory device. As results are processed into ERM, the full election data is processed onto the EMS system. This data may be backed up using Windows Explorer for archival purposes. Results in Electionware are automatically included in the 1-step Electionware backup process.
1.2.A.21	Export data elements from the election configuration and ballot layout records in the following formats: Extensible Markup Language (.xml) (e.g. Oasis EML and IEEE 1622), Comma Separated Value (.csv), and Microsoft Excel Format (.xls).	Y	Data elements can be exported from Electionware using our custom Table View reports in Electionware. Users can select some or all data fields and sort the data as needed. Electionware exports are in Excel (XLSX) and CSV. Data elements, including results, can be exported from ERM or Electionware in an XML format. ERM also offers a number of other export options including ASCII, HTML, TXT and CSV.
1.2.A.22	Permit the re-upload (updating of previous uploads) of election data results from a tabulator device to the EMS.	Y	Tabulator results can be re-uploaded into ERM if additional ballots are added to the poll or precinct. By design the system will not allow an update of duplicate results.
1.2.A.23	Be capable of replicating all election configuration and results data to a redundant system in the event of a hardware or software failure.	Y	Electionware backups should be done periodically using the 1-step Electionware backup process: By selecting the "Create" button, the entire Electionware database for this election is backed up to a single file. Electionware will also increment the backup file's version automatically to ensure that a previous backup file is not overridden. By restoring this backup on another system, this process allows for simple replication of all Electionware data. In addition, ERM results should be periodically backed up to provide a known "checkpoint restart" in the event of system or procedural failure. (For more information, see our response to requirement 1.2.A.20 above). Restoring the archived file set brings ERM back to that point and allows restarting the system at that known point from any server/workstation combination and continuing with the results aggregation and reporting process. After restoration of files, a summary report can be created to document the restart point.



1.2.A.24	Be capable of exporting election results data in multiple widely used data formats including .mdb, .xls, .pdf, .xml, .html, .csv, .doc, ascii and .txt.	Y	ERM is capable of exporting results in the following formats: .xml, .html, .csv, .ascii, .txt and .lst. Electionware is capable of exporting results in the following formats: .xml or .html
1.2.A.25	Accept transmitted uploads of election results data from the tabulator when deployed for elections at precincts, absent voter counting boards (AVCBs) and elections offices using a Local Area Network (LAN), phone or cellular transmission protocols.	Y	Contractor agrees and complies with this requirement. ERM can accept transmitted uploads of election results from the DS200, which can be configured with an internal wireless modem or an analog (landline) modem. In this configuration, the county would be outfitted with a secure server set up to receive results transmissions from any precinct or AVCB in the county. After the poll worker closes the polls at a precinct or AVCB, the DS200 prints the results tape and then automatically displays a screen asking if they would like to begin the modem process. This screen also displays the modem's current signal strength. After the poll worker presses the on-screen button to begin the results transfer process, the DS200 uses its wireless modem to establish a Secure File Transfer Protocol (SFTP) connection to the server at county headquarters. The encrypted results file is deposited on the server and the connection is terminated. Back at county headquarters, an ERM operator begins an automated process that updates results received by the server. This process is typically started near poll closing time and runs throughout the evening. ERM monitors the folder on the receiving server and processes results files in real time as they are received. Reports that help election officials determine which voting locations have yet to transmit their results are available. See Exhibit 5 to Schedule A, Recommended Infrastructure/Transmission Network and Schedule C, Pricing, Cost Table 5 Additional Options/Costs - EMS Network Configuration Options. ES&S also supports the use of regional sending sites with the Regional Results/Transmission application. See Schedule C, Pricing, Optional Items. In this configuration, each regional site would have a Windows 7 PC loaded with Regional Results/Transmission and requires an internet connection of any kind. Regional Results/Transmission establishes a direct, secure connection with the server at county headquarters. As USB memory devices containing results arrive from the various poll sites, they are inserted into the PC. Without any further action by the election official, Regional Results/Transmission recognizes the USB device and automatically delivers the encrypted results file to the county server. The application tracks all USB memory devices that have been processed and which remain outstanding, presenting this information in a simple interface that is

1.2.A.25 <i>continued</i>			easy to understand for election officials. At county headquarters, ERM automatically processes results files from regional sites in the same manner as results files modemed directly from the DS200. Finally, ERM is also capable of receiving results data from ES&S central count tabulators via Local Area Network.
1.2.A.26	Accept direct uploads of election results data from the removable memory devices of the tabulator (which may be required when deployed for elections at precincts, AVCBs, and election offices).	Y	ERM accepts direct uploads of election results data from USB memory devices.
1.2.A.27	Only accept uploaded results from removable memory devices specific to the current election.	Y	ERM accepts only uploaded results from removable USB memory devices specific to the current election. When each election is created, a unique encryption key is created, which is part of a security bundle placed on a special security USB memory devices. This encryption key is used to throughout an election, from the Electionware software to all USB memory devices. It is also included in the election definition for ERM. This process ensures that only results USB memory devices from the current election will be accepted.
1.2.A.28	OPTIONAL REQUIREMENT: Provide for an automated test deck creation including use of precinct ballots and development of the chart of predetermined results.	Y	Specifically built for Michigan, our Automated Test Deck Creation module found within Electionware Toolbox software provides a spreadsheet chart of predetermined results as well as a set of PDF files with pre-marked ovals. The information needed to create the test deck comes directly from the Electionware election definition. The chart and test deck adhere to Michigan Promulgated Rules for test deck preparation. Some features created specifically for Michigan include an all-fill stray marks ballot, one or multiple blank ballots, a section by section overvote option, Open Primary crossover patterns as defined by MI law, plus a 1 to maximum unique voting pattern. The Canvas style spreadsheet chart includes easy to identify marks plus overvotes, as well as all election specific candidate names. Benefits of using ES&S' test deck feature includes significant time and costs savings for clerks, as well as removing the potential for human error from the equation. Most importantly, any County that partners with ES&S will receive this feature at no additional charge as part of the Contractor's software solution. If Michigan Law reinstates Straight Party voting, Contractor will modify the automated test deck to include this capability at no additional charge. The Test Deck can be created for an all-precincts poll media or a single poll media. The following is a detailed list of steps: 1. The user would create ballot proofs in the form of a PDF in Electionware's Paper Ballot module. 2. A poll media is created in the Electionware Package module. 3. Test Deck module is opened in the Toolbox software. 4. The user loads the current ballot PDF, plus the poll media and the election pass code. 5. The destination for the digitally marked test ballots is specified. 6. The user can choose options as required by Michigan (under votes, an unused oval ballot, Overvotes, Overvotes by Section, a ballot from a different precinct, plus each count can be unique using a 1 to Max pattern). 7. The system will generate a PDF with ovals filled based on the options chosen. 8. The system will also generate a report to allow the user to proof the Test Deck, similar to Michigan's current spreadsheet. The system will enter all contests, questions, parties and candidate names based on the election definition. 9. The user will run print the PDF generated by test deck, run them on a tabulator, and verify that the tabulator results report matches the toolbox report. See Sample Test Deck (Page 40).
1.2.A.28	Continued.		The same original PDF ballots that are used to create the pre-marked Test Deck ballots in Toolbox would be used to produce the final production ballots. The timing of the Test Deck ballots can be done before or after the final production ballots, but it would be recommended to create the Test Deck first.

B. EMS**Programming**

1.2.B.1	Elections shall be county-programmable from initial election definition to printer-ready ballots and ready-to-use tabulator media/memory devices without vendor intervention.	Y	Numerous counties and states program their entire election without vendor intervention using Contractor's EMS Software. After attending the full ES&S EMS Software course, County staff will be able to program election hardware and software, produce printer-ready PDFs for ballot printing and produce general election reports. ES&S also provides world-class technical support if questions arise.
1.2.B.2	Counties shall be permitted to use third-party programmers (contract employees) at the county's discretion and under county's direction; or utilize other third-party programmers from a list of qualified programmers supplied by the Contractor.	Y	Contractor acknowledges this request and agrees to allow counties to use third-party programmers (contract employees) at the county's discretion and under county's direction or use other third-party programmers from a list of qualified programmers supplied by the vendor. ES&S will provide to the state and counties the names of qualified programmers once they have completed the required ES&S ElectionWare Training course, similar to the training course we would provide to Clerks and election personnel in each PYO county. All services provided by such third parties must take place on-site at the counties' designated location and must be through the use of the county-owned secured computers and network system. NOTE: The Authorized User's obligation to use the Software and Documentation on-site at the Authorized User's designated location and on the Authorized User's owned computer and network system shall not apply to use of the Software by Authorized Users who have valid licenses from Contractor or through qualified third-party programmers authorized by Contractor. The third parties shall not be allowed to install or use the EMS Software or System Software on its own computers and/or systems because ES&S' license does not allow for such use for security reasons. System security for ElectionWare depends, in part, on sound practices at the election office. Officials should implement a strong physical and procedural security plan that limits access to ElectionWare to authorized personnel only. Election officials should also make sure that the PCs running ElectionWare remain secure before and after each election. These practices will help ensure secure and successful State elections. The State should enforce these strong security measures as well in order to guarantee the integrity of all programming and election results generated; to further ensure unwanted viruses, changes to base programs, tampering with completed programmed elections, etc.

1.2.B.3	Recognizing the decentralized nature of Michigan elections, the EMS shall allow State, county and local officials to generate and maintain a database containing the definitions and descriptions of political subdivisions, offices, candidates, and ballot proposals within the jurisdiction for the production of ballots and ballot tabulation programming and election result accumulation and reporting. Refer to Exhibit 6 to Schedule A Michigan QVF Export File Format for additional details on the planned State Uniform Data Format.	Y	The ES&S Voting System (EVS) is a full Election Management product, allowing the user to create a local database containing the definitions and descriptions of political subdivisions, offices, candidates, and ballot proposals within the jurisdiction for the production of ballots and ballot tabulation programming and election result accumulation and reporting. The EVS provides full election data import capability for all election data (e.g. Political subdivisions, Precinct, Contest, and Candidate text data files). Electionware's Import Function supports the import of industry standard comma separated values (CSV) files to load election Ballot Definition Data. Michigan's Uniform Data Format can be utilized to create Electionware import files. The EVS Election Management product supports the import of industry standard, comma separated values (CSV) files to load election Ballot Definition Data. By extracting the Michigan QVF Export File records by type (0 through 9), into individual files, the EVS Election Management product supports import of the Michigan QVF Export File Structure (State Uniform Data Format) as defined in Exhibit 6 to Schedule A Michigan QVF Export File Format. Following Electionware import of election definition data items, including the State Qualified Voter File (QVF) data items, all data items required by the Michigan Standard Precinct Results File export, flow from their Electionware source into the Election Reporting Manager database. Therefore, QVF values for Office Id, Precinct Id, and Candidate Id are available for export. The EVS ERM provides multiple results export file format options for Election Results reporting (e.g. ERM Results XML file, ERM State transfer file (CSV format). Additionally, the Contractor shall provide the ERM Results Export Program (EXP) utility to meet the Michigan Standard Results File creation requirement as defined in the Attachment 1.5. The EXP Utility will include the QVF Identifiers for offices, candidates and precincts from QVF data imported into the EVS Electionware module. This functionality is included in our software solution at no additional cost. ES&S has built and demonstrated to Michigan the features required to create a Michigan QVF Export File. EVS 6.0.0.0 includes a new Reporting module within Electionware. This version is expected to enter EAC certification by June 2017.
1.2.B.4	EMS shall provide for the accumulation and reporting of votes cast in all elections including multiple precincts, jurisdictions, counties and districts (allow for results to accumulate and report registered voters and results by split).	Y	The system uses Election Reporting Manager (ERM) software to accumulate results within an election. ERM offers standard and custom reports available in several report formats. ES&S proposes to provide the ERM Results Export Program (EXP) Utility to allow the accumulation of multiple elections throughout the state. The EXP Utility has been used successfully in previous systems in Michigan, plus many other states. This program is customizable to allow results as needed by the State. Registered voter totals and results are accumulated by precinct. The ability to report by splits has been built into EVS 6.0.0.0 for Michigan. This version is expected to enter EAC certification by June 2017. The ERM Results Export Program (EXP) utility is included in the Contractor's software solution at no additional charge as designated in Schedule C, Pricing.

1.2.B.5	EMS shall provide a mechanism to verify the correctness of tabulator programming. The mechanism shall also ensure that the ballot corresponds to the appropriate tabulator program and meets all requirements as prescribed by Electronic Voting Systems - Promulgated Rules and Michigan Election Law.	Y	ES&S EMS offers safeguards within Electionware that reduces human error on the front end of programming and Automated Test Deck Creation assists you with Logic and Accuracy (L&A) testing. This meets all requirements as prescribed by Electronic Voting Systems - Promulgated Rules and Michigan Election Law. Electionware offers many safeguards while programming the election. It will not allow the user to continue if vital information is missing. Electionware also provides alerts or warnings for potential workflows that are not the norm, yet are still allowed by the system for the sake of flexibility. Electionware also offers numerous reports for proofing purposes to ensure that the ballots and system configuration are accurate and able to be verified. ES&S Automated Test Deck Creation functionality makes it easy to complete required L&A testing. This software creates pre-marked ballots specifically for Michigan along with a chart of pre-determined results for easy verification of correct results. Every jurisdiction will receive ES&S' Automated Test Deck Creation software. ES&S recommends complete end-to-end testing. When L&A testing is complete, each scanner should be cleared of all vote totals, a Zero report run to validate the results cleared, and the unit locked and sealed for transport to the polling place. This level of testing ensures the integrity of the entire system. Most importantly, any County that partners with ES&S will receive this feature at no additional charge as part of the Contractor's software solution. Electionware was designed with the intent of eliminating workflow issues found in Unity Election Data Manager. Many users accidentally set the Type code to zero, which could cause tabulator difficulties. Electionware prevents the user from being able to create a Type, Sequence or Split ballot identifier that may cause problems downstream. In the Unity suite, the tabulators required the Type code to start at one, be sequential and increment only by one. In Electionware, the system
1.2.B.5 <i>continued</i>			creates the Type code automatically. Additionally, the tabulator can accept any Type code in an election. The ES&S tabulators can accept an election with non-sequential Type codes. These changes prevent potential problems prior to production of PDFs and/or ballots.
1.2.B.6	Contractor shall describe the method for programming in the case of split precincts. It is preferable to provide data on the number of registered voters and ballots cast by split.	Y	Electionware's Capture module makes it easy to add splits to a precinct and assign them to the appropriate district. Once a split is established, the user may input registered voter totals for each individual split. All of this information - precincts, splits, and registered voters - may also be imported using Electionware's data import feature. The system uses Election Reporting Manager (ERM) software to accumulate ballots cast and report on registered voter data within an election. At this time, registered voter totals and results are accumulated by precinct. The ability to report registered voters and ballots cast by splits has been built into EVS 6.0.0.0 for Michigan. This release is expected to enter EAC certification by June 2017.

1.2.B.7	EMS shall accommodate multiple languages (see requirement 1.2.A.13); system shall allow local election officials the ability to download information from software used to translate information to the appropriate language, or the system should perform translations automatically. Michigan presently uses English, Spanish and Bengali.	Y	Electionware's Capture module provides certified support for English, Spanish, Chinese, Korean and Japanese. The Contractor's base voting system solution, ES&S Voting Solution 5.2.2.0., also supports the Bengali language. These languages can be used to produce visual ballots (both paper and onscreen) as well as audio for ExpressVote ballots using the Electionware Toolbox utility. The system can be updated to support other languages, if requested. Electionware can add additional languages to both paper ballots and audio shortly after installation of the program. The Add Language option in the Capture module enables you to add languages to the current election. These languages can later be grouped for application to particular precincts. All English and non-English languages must first be entered into the Capture module of Electionware. Once each language has been identified, the Capture module dynamically creates language-specific data entry screens for all required election information. For the first election setup, the jurisdiction is responsible for all language translations and entering them into Electionware. The software does not automatically translate English into foreign languages. As translations are either entered or imported, the county's unique translations can be re-used from election to election by utilizing Election Templates. The system will automatically make translations available for use by the ES&S tabulators. The Contractor's system also allows for variable languages per precinct. For example if a small number of precincts require Bengali, then users can set up one Language Group for English and Bengali (plus any other languages needed) and another Language group for English only (plus any other languages needed). Language Groups are simple to manage, offer more translation flexibility and save users time laying out ballots, checking translations, creating and testing audio.
1.2.B.8	OPTIONAL REQUIREMENT: The State prefers a system that is capable of reading a military/overseas voter (MOVE) ballot into a designated precinct without requiring the duplication of the returned ballot for each precinct in the election. The Contractor shall provide detailed information related to the system's capability for meeting this requirement for ballots returned via US mail (current process) or electronically (not currently authorized by law); including any ballot format and other requirements related to an outgoing ballots that is transmitted to a MOVE voter electronically.	Y	The ES&S EMS Electionware handles MOVE ballots flexibly. MOVE ballots, marked on an original ballot and returned via US mail, can be tabulated by a DS200 or DS450. As part of the Future of Voting, ES&S has developed the ExpressPass, which allows a voter to mark a sample ballot and print a document with all the voters' selections contained into a QR Code. The voter would mail, email or fax this document to Election Central. The election official would insert a blank card into the ExpressVote and scan the QR Code from the document. A summary screen is displayed in which all selections can be verified. After verification, each voter's selections are printed on the official thermal card stock/ballot for insertion into the DS200/DS450 for tabulation. This system eliminates the need for duplication, thus reducing human error and time/labor costs in the duplication process. States have different regulations and requirements as to the use of this product. Once we understand the State's intended implementation of ExpressPass, we would determine price at that time.

1.2.B.9	EMS shall be capable of supporting an open primary, closed primary, general election, special/nonpartisan election, statewide special election and any combinations thereof. System shall provide templates (including graphics) for ballot layout to support the above combinations.	Y	Electionware is capable of supporting all of the listed election types and any combinations thereof. Electionware's ability to use data from past elections as well as built-in election and ballot templates (including graphics) eliminates the need to re-enter data or re-create templates with each new election. These powerful capabilities enable election administrators to create error-free elections in less time. Security levels are configurable based on the levels of security required by the jurisdiction. Election templates can be updated similar to an election to ensure they are kept up to date and accurate. If desired, ES&S will create a ballot design template that adheres to all state requirements, allowing for ballot design consistency across the state. Contractor can provide pre-programmed election templates for Michigan and will work with the State or its designated representative in the design of these templates at no charge.
1.2.B.10	Contractors shall provide onsite/offsite/online training at the discretion of state or county on use of software/programming. Contractor shall provide user-friendly software documentation including step-by-step programming/usage guides including graphical depiction of all major steps in programming process.	Y	ES&S agrees and complies with this requirement.
1.2.B.11	Contractor shall demonstrate how data can flow from the State Qualified Voter File (QVF) into EMS and the formats in which data can be imported/exported. Refer to Exhibit 6 to Schedule A Michigan QVF Export File Format for additional information.	Y	The ES&S Voting System Election Management product supports the import of industry standard TXT files, which can include Pipe " " or Tab delimiters. All election data from the state can be imported into Electionware. This includes, but is not limited to all precinct data, contests, candidates, questions, question responses, districts, and polls. Also, translations for all election data may be imported, if needed. ES&S customers can import state-assigned IDs for precincts, offices and candidates so that each county may export election night results with the state-assigned ID included. ERM is capable of exporting result in the following formats: .xml, .html, .csv, .ascii, .txt and .lst. Electionware is capable of exporting results in .xml or .htm. formats. Additionally, The Contractor shall provide the ERM Results Export Program (EXP) utility to meet the Michigan Standard Results File creation requirement as defined in Exhibit 6 to Schedule A Michigan QVF Export File Format. The EXP Utility will include the QVF Identifiers for offices, candidates and precincts from QVF data imported into the EVS Electionware module. This functionality is included in the Contractor's software solution at no additional charge as designated in Schedule C, Pricing.. The Contractor has completed production of this capability as part of Toolbox 3.1.0.0. ES&S successfully demonstrated and tested how data can flow from the State Qualified Voter File (QVF) into EMS and the formats in which data can be imported/exported as part of the EVS 5.2.2.0 and 5.3.2.0. certification test conducted by the MI BOE in Lansing, Michigan, on February 2- 3, 2017.
C. Ballot Programming & Layout Requirements	Ballot programming and layout features of the EMS shall:		

1.2.C.1	Produce ballots that meet the requirements of Michigan Election Law, Chapter 168 and Michigan Ballot Production Standards.	Y	ES&S Electionware's Paper Ballot module can accommodate all requirements except different stub sizes within the same election. Electionware provides almost unlimited flexibility in the design and layout of your optical scan paper ballot. The ballot can be designed in grid landscape or portrait as well as the traditional multi-column portrait ballot. In a column-portrait format, users can create various size columns. For example, ballot sides can be set to 1, 2, 3 or 4 columns wide. They can have narrow columns mixed with a wider column. <i>Note 1:</i> ES&S tabulators support a variety of ballot sizes that include: 8.5" x 11", 8.5" x 14", 8.5" x 17", and 8.5" x 19". <i>Note 2:</i> Users may utilize any font saved on their system and set to any size needed. Various ballot contents can utilize kerning (both positive and negative) plus different formats such as bold, underscoring and italics or any combination.
1.2.C.2	Allow changes to font size and style. Proposals shall indicate font packages utilized by the system.	Y	Available fonts are limited only by the fonts installed on the ballot layout PC. Electionware contains the utmost ballot creation flexibility to support the varied election rules and regulations of our current and potential customers. Electionware provides complete typographic control over every piece of text that appears on the ballot. Typographic elements under your control in the PaperBallot module, under the Font menu, include font face, font style, font size, line size, strikeout, underline, text color, margins, ruling lines, alignment, text rotation, font kerning, relative and absolute placement, background color, and more. Kerning and leading can be adjusted anywhere in the Paper Ballot layout. Different ballot elements (office titles, candidate names, party names, etc.) can be assigned different fonts and font attribute values. Electionware supports font sizes as small as 4 points and as large as 72. Shading, ruling lines, boxes and color can all be added to enhance ballot appearance.
1.2.C.3	Allow for creation of two-sided and multi-page ballots.	Y	Electionware allows creation of two-sided and multiple ballot sheets or pages. Different instructions and precinct/ballot style identifiers can be displayed on each sheet and side of the sheet. Contests and referendum can flow naturally from one side and sheet to the next, or they can be set to a specific side and sheet.
1.2.C.4	Generate sample (proof) ballots for each precinct (or ballot style) that will not be accepted or counted by the tabulator.	Y	Authorized users can edit the Ballot Setup feature in Paper Ballot and remove the Code Channel to create sample ballots. Without the Code Channel, the optical scanner will not process a paper ballot. Users can also add a Watermark wording on the ballot with any phrase required such as "Sample" or "Michigan Test Ballots."
1.2.C.5	Be capable of generating all ballot artwork and all specimen ballot artwork (ex. Political party vignettes, drawing columns, target areas, borders, fonts). The system must be capable of accepting political party image vignettes in standard formats (jpeg, pdf, gif).	Y	Electionware's Paper Ballot has the ability to place graphics in many different formats onto the ballot. These formats include BMP, GIF, ICON, JPEG, PNG, and TIFF file types. Graphics may be resized as needed once added to the ballot design.

1.2.C.6	Allow race header shading in multiple shades of gray.	Y	Shading can be added to the ballot header in multiple shades of gray or various colors. Electionware also provides complete typographic control over every piece of text that appears on the ballot. Typographic elements under the user's control include font face, font style, font size, line size, strikeout, underline, text color, margins, ruling lines, alignment, text rotation, font kerning, relative and absolute placement, background color, and more.
1.2.C.7	Provide electronic versions of the ballots that are identical to the official ballots in all respects.	Y	Users can create an electronic version of the ballot (PDF) in Paper Ballot. These ballots are used to create election day ballots as well as the Test Deck for Logic & Accuracy testing. The ballot layout in Paper Ballot ensures the standard size ballots have identical data to the ADA devices (ExpressVote).
1.2.C.8	Ballot size shall be flexible to allow multiple ballot sizes by precinct/jurisdiction within a single election if desired.	Y - Contractor complies with modifications	Electionware provides almost unlimited flexibility in the size, design and layout of your optical scan paper ballot. The ballot can be designed in grid landscape/portrait, and the traditional three-column portrait ballot, only one of the many column layout options. However, there is only one ballot size per election. The Contractor offers support for multiple ballot sizes in an election in EVS 6.1.0.0, which is expected to be ready for certification by Summer 2018. Dates and release numbers are subject to change. Contractor will notify the State of any such updates.
1.2.C.9	Provide for the export of any ballot to a .pdf file.	Y	Users can create an electronic version of the ballot (PDF) in Paper Ballot. These ballots are used to create Election Day ballots as well as the Test Deck for Logic & Accuracy testing. The ballot layout in Paper Ballot ensures that the standard size ballots have identical data to the ADA devices (ExpressVote).
1.2.C.10	Provide a test mode which supports testing to validate the correctness of elections programming for each voting device and ballot.	Y	ES&S recommends testing each tabulator and ADA device (ExpressVote) prior to the election in the same mode as is used on Election Day, this serves also our test mode. This ensures an accurate and thorough test environment. The Electionware software is designed to assist and validate the correctness of election programming during the user's data entry workflow. If required fields are missing as the election is programmed, Electionware will notify the user with simple, easy to use instructions. ES&S uses live, printed ballots to test the accuracy of the optical-scan voting units and the Electionware EMS to the accuracy of the election coding. During this testing of DS200 and Electionware, ES&S verifies the following: All locations and accepted ballots per location; the desired handling of over-voted and blank ballots; that sets of scripted results are transferred correctly into the reporting system; the types of reports the jurisdiction wants for Election Day and generates the reports using test data. All test results can be cleared after the L&A process. The Automated Test Deck Creation will assist Michigan counties in the creation of test decks and the required spreadsheet. By allowing the system to automatically generate a PDF of pre-marked ballots, plus a spreadsheet of all results in the Michigan format, the number of potential human errors is significantly decreased. Most importantly, any County that partners with ES&S will receive this feature at no additional charge as part of the Contractor's software solution.

1.2.C.11	OPTIONAL REQUIREMENT: Allow for different ballot headers on ballots within the same election (Special Election, General Election, Election).	Y	While the default is for text and graphics to appear on all ballot styles, Electionware also provides the flexibility to allow text and graphics to appear on subsets of ballot styles. You can specify text and graphics to appear on ballot styles according to the following criteria: • By selected party(s)/ballot set(s), or • By selected ballot style(s), or • By selected language group(s), or • By selected precinct(s), or • By selected district(s). These capabilities include the ability to meet the State's header design requirements. Graphics can be imported into the system for design purposes at the same time election data is imported. Our ES&S ballot design team will work closely with the State to ensure your preferences are included in the design of the ballot layout and content.
1.2.C.12	Generate a consolidated sample ballot containing all races, issues and questions.	Y	Users can create a consolidated sample ballot containing all races, issues and questions by assigning a single precinct to all the active districts in the election. Contractor is pleased to offer support for consolidated sample ballots in EVS 6.1.0.0. This release is expected to be ready for certification by Summer 2018. Dates and release numbers are subject to change. Contractor will notify the State of any such updates.
1.2.C.13	Include a ballot style indicator.	Y	A unique ballot style indicator is printed on each ballot. Jurisdictions can choose from a list of system variables to place a visually readable identification on the ballot as needed. You have many options on how and where you would like to place the readable precinct and/or ballot style label on the ballot. Additionally, you can export the system's ballot styles to a spreadsheet and enter two (2) different identifiers (Alternate IDs) if you would like to include your own ballot style indicator on the ballot. User specific ballot IDs can then be imported back into Electionware to allow even more flexibility on the ballot layout.
1.2.C.14	Be capable of designating the number of write-in lines for each contest.	Y	Electionware enables jurisdictions to designate the number of write-in lines for each contest. You can even have a different number of write-ins than the vote-for number. (i.e. you can have contest with vote for = 3 but have 1 write-in)
1.2.C.15	Be capable of adding text to the ballot to instruct the voter to view both sides when it spans more than one face, or other instructions as required.	Y	Electionware enables the user to add a ballot frame with any wording, ruling lines and shading desired.
1.2.C.16	Provide the ability to create a single county database that contains precincts, office, polling places, etc. that can be imported into each new election.	Y	Electionware allows customers to generate and maintain a single database for the entire election in an intuitive, yet flexible method. The software uses automation instead of repetition. The re-use of previous election contests, data and equipment settings, instead of duplicative data entry, ensures that election administrators can create error-free elections in less time. ES&S uses election templates, which avoid the need for users to export the data and then re-import into a new election. Election templates may be updated easily to keep them current for the jurisdiction, and may be edited similar to editing an election.
1.2.C.17	Provide the ability to copy, edit and delete previously-defined elections or provide customized templates for each election type.	Y	ES&S uses election templates, which help users avoid the need to export the data and then re-import into a new election. Election templates may be edited similar to editing an election, allowing jurisdictions to keep them updated between election cycles. For example, if a jurisdiction experiences re-districting they may update their election templates so they are current the next time they need to be used.

1.2.C.18	Permit text to be added below a candidate's name for various designations and party affiliation.	Y	Electionware offers 10 additional text lines (each 255 characters) added to a candidate's wording on the ballot. Similarly each party has 10 additional text fields for various ways to show a party.
1.2.C.19	Provide for ballot rotation of candidate names as required under the provisions of Michigan Election Law and the Electronic Voting Systems - Promulgated Rules. Vendor shall disclose any specific limitations on the number of candidate or office rotations.	Y	Electionware provides for candidate name rotation per Michigan Election Law. In EVS there is no limitation on the number of rotations. The Election Reporting Manager currently cannot process more than 175 candidates per contest. Contractor increased the maximum number of candidates (and therefore office rotations) in EVS 6.0.0.0 which will begin certification in June 2017.
1.2.C.20	Provide for rotation only when the number of candidates for an office is greater than the number to be elected.	Y	Electionware provides for rotation only when the number of candidates for an office is greater than the number of candidates to be elected.
1.2.C.21	Permit the creation of an "uncommitted" candidate that does not rotate like the other candidates in the office for use in a closed Presidential Primary. The Contractor shall provide details of the process used to create the "uncommitted" candidate that does not rotate.	Y	Electionware permits the creation of an uncommitted candidate that does not rotate like the other candidates in the office. This option is available for all election types if needed. Any candidate (with an oval) or candidate level text may have the "Do not rotate" option enabled. Uncommitted candidates that are text-only, with no oval printed on the ballot, can be set up as "Candidate Level Text." These can be created automatically or manually. Both Candidate Level Text elements and Candidates have an option called "Do Not Rotate." This allows the flexibility needed to ensure certain Candidates or Candidate Level Text are not included in office rotation.

The screenshot shows the 'Candidate' form in Electionware. It includes fields for 'Last Name' (STONE), 'First Name' (DOUGLAS), and 'Order Number' (3). Below these are 'Party' (CONSERVATIVE) and 'Contest' (GOVERNOR AND LT. GOVERNOR NTY). A 'Candidate Options' section is highlighted with a yellow box, containing a checkbox labeled 'Do Not Rotate' which is currently unchecked.

1.2.C.22	Provide for identification of candidate names, party affiliation and vignettes and ballot questions and their associated language and instructions. The State prefers systems that provide the greatest flexibility in inputting ballot question language into EMS; including importing, copying and pasting, spell check and the use of symbols including bullets.	Y	Electionware includes a robust import feature that allows a significant amount of election information to be imported with a single click of the mouse. Types of information that can be imported include Parties, Precincts, Districts, District-to-Precinct relations, Contests, Candidates, Ballot Questions, Polling Places, Poll-to-Precinct relations, and more. You may also import foreign language translations for all of these items. The import files themselves can be formatted as fixed length fields or can be delimited. Both ASCII and Unicode formats can be imported, which provides support for multi-byte character languages such as Chinese. Header rows are used to define the table and field names of the information contained in the import files. Since the import files can be viewed in Microsoft Excel, many of our customers perform spell check in that program prior to performing the Electionware import. Spellcheck is not available in Electionware or Unity. Regarding the manual entry of ballot questions, ES&S has made a concerted effort to make this process as user friendly as possible. Our current Michigan customers often receive the official text of a ballot question from an outside source, and that text is contained in a separate document. Electionware allows the user to simply copy the desired text and paste it into the application. Electionware has a specific feature that makes the creation of bullet points very easy. This feature was added to the system specifically to support Michigan elections. All of the ballot question text and special formatting described above can be imported as part of Electionware's powerful import feature. Electionware also allows for up to 10 Additional Text fields for ballot questions, candidate names, contests and parties, which provides even more flexibility.
1.2.C.23	Corrections to programming/ballot layout (such as adding or removing a candidate or precinct) shall be made in such a way as to permit new ballot proofs to be generated quickly and accurately. PDF's shall be generated by precinct or ballot style (at the request of the user) and shall be in database order front followed by back.	Y	Corrections to programming/ballot layout, such as adding/removing a candidate or precinct, can be made quickly and easily. PDFs can be generated by selecting all, one or some ballot styles based on the user's options elected. Ballots are always printed front then back. Users also have the option to print all fronts, then all backs if they desire.

**D. Election Night
Reporting (ENR)
Capabilities**

1.2.D.1	The Contractor's EMS shall have ENR functionality that allows for electronic transmission of unofficial results on Election Night, which can be summarized and displayed electronically online at the State, county and jurisdiction level. The Contractor shall describe, in detail, the transmission, reporting, security and electronic display capabilities of their available ENR system.	Y	Our DS200s offer wireless or dialup modem transmission of unofficial results on Election Night to a Secure File Transfer Protocol (SFTP) server. These results are then processed by Election Reporting Manager (ERM) which summarizes and creates results reports in paper and electronic format for distribution to election workers, candidates and the media. As an option, DS200 results can be electronically transmitted on Election Night from regional sending sites utilizing the Regional Results/Transmission application. This is an optional application (See Schedule C, Pricing, Optional Items, "Regional Results Transmission"). All transmitted results are encrypted and digitally signed to ensure secure transmission. Only results from the DS200s programmed for the current election will be accepted by the receiving server. Jurisdictions can configure multiple ERM PCs to display scrolling results, which automatically update as the ERM system processes election night results. ERM can also distribute reports directly to media outlets over a LAN connection. Electionware tracks which USB memory devices have transmitted results on election night and can provide a report of each poll's status. After the election, Electionware can be utilized to report and display equipment logs, Cast Vote Records and ballot images. ES&S' ElectionwareResults™ is a web-based application, which utilizes election night results accumulated in ERM. ElectionwareResults will automatically post the exported batch file to the State of Michigan's website for viewing by voters, candidates, public, and media. This new service is a high-capacity system that allows election administrators the ability to control what and when unofficial and official results are published to the Internet. ElectionwareResults can upload data from Electionware ERM without further need for translation. Furthermore, the system can display results for the election administrator to first view, and then release for public viewing on the Internet. The system even enables the administrator to roll back the results displays, if needed, to datasets received earlier on election night. ElectionwareResults includes both table and graphical displays. Vote percentages, turnout percentages and precincts reported are all included. ElectionwareResults displays can be viewed statically or in an automated scrolling mode that continuously rolls and updates itself. This application is included in the Contractor's solution at no additional cost.

1.2.D.2	The ENR system shall support the following transmission mediums for reporting unofficial returns on Election Night directly from precinct tabulators to the EMS system: cellular modem, analog/dial-up modem, database import and manual reading of tabulator memory devices. The Contractor shall specify and describe any other transmission methods available and/or under development.	Y	The DS200 Precinct Tabulators support transmission of results using analog/dial-up modems, cellular modems, or a combination of the two methods. ES&S offers cellular modems that support Verizon, AT&T, and Sprint carriers. In the event of an outage of either phone or cellular networks, the USB memory device containing the results can be manually processed into the reporting system to generate election night results. Additionally, ES&S central count tabulators can transfer results via a closed network or using a USB memory device. Finally, users have the option of transmitting results on a secure laptop utilizing the Regional Results/Transmission, which is an optional application. (See Exhibit C, Pricing, Optional Items).
1.2.D.3	The ENR system shall support accumulation and transmission of unofficial results by modem (cellular or dial up) from different election groups simultaneously into the same precinct and accumulated automatically (i.e., cellular or dial-up transmitted absentee results as well as cellular or dial-up transmitted election day results). Memory devices shall be programmable to reach proper destination (i.e., Election Day precinct, AV precinct results).	Y	Election Reporting Manager (ERM) is capable of handling the receipt and accumulation of unofficial results transferred by modem (cellular or dial up) into the appropriate election group and precinct. Users have up to 14 different customized groups in ERM to accumulate results. ERM processes results into the group specified when the accumulation process began. Once these unofficial results are processed – whether they are Election Day, Absentee, or other – ERM combines all groups into a single result for a given precinct. Meanwhile, separate totals are still available for the different types of voting should they be required. EVS 6.0.0.0 has been designed with a new Reporting module. Media from different election groups may be loaded into Electionware simultaneously into the same precinct and accumulated automatically. USB media devices are pre-programmed for the appropriate election group (i.e., Election Day, Absentee, Provisional). EVS 6.0.0.0 is expected to enter EAC certification by June 2017. A modeming release, EVS 6.1.0.0, will be available once EVS 6.0.0.0 is certified. This version is expected to be ready for certification by Summer 2018. Dates and release numbers are subject to change. The Contractor will notify the State of any such updates.
1.2.D.4	Regarding modem transmission of unofficial results, the ENR system shall provide an ability for the user to customize the level of security (custom passwords, custom private networks, etc.). The Contractor shall describe in detail all security features of their transmission system and processes that are available, including use of encryption.	Y	The Contractor's system supports secure wireless network results transmission utilizing a Data Transmission Security bundle configured in the Electionware Configure module. The security bundle is loaded to the DS200 using a USB memory device. The standard election definition file configured in Electionware includes necessary configuration options to support network communications, including server IP address and telephone numbers. The encrypted security bundle contains network access passwords to facilitate secure connection and authentication with the central reporting location. Additional security is achieved by signing the encrypted results bundle with a private key created by the DS200. The encrypted results bundle, in addition to the results, includes the signature file and DS200 created Public key used to verify the results bundle signature. The jurisdiction's election administrator assigns a unique account and password to all users of the EMS PCs. In addition, user accounts and access codes are established for users of Electionware using the built-in Setup module. User customized passwords are also utilized in ERM for the transmission of results data. VVSG 2005 requires protecting vote data using digital signature. Electionware digitally signs every cast vote record and digitally signs the package of cast vote records captured by the tabulators. Additionally, the software exceeds the VVSG requirement by placing a digital signature on all data sent to the tabulators on removable media (from the EMS PC) and all data returned from the tabulators on removable media (to the EMS PC). Tabulator and EMS digital signature processes use the EC-DSA P-384 algorithm within the RSA Crypto library. For more information, please see our response to 1.2.A.2 above.

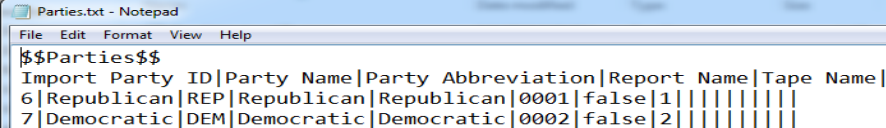
1.2.D.5	The ENR system shall provide for centralized programming that allows the county to customize and incorporate specific instructions for transmitting results (IP Address, Phone #, etc.).	Y	Electionware allows for centralized programming, including the ability to specify the IP Address and/or phone number to be used. Customers utilizing dial-up modems may customize the dialing instructions on a poll-by-poll basis, allowing for special circumstances (e.g. dial 9 for an outside line).
1.2.D.6	ENR Data transmission includes Race Summary report data (total votes for each candidate) and Race Detail report data (results by precinct) report data.	Y	This functionality is available in ERM using Precinct Summary and Election Summary reports after they are electronically transmitted or loaded directly into ERM.
1.2.D.7	OPTIONAL REQUIREMENT: The ENR system should have the ability to present a precinct as completely or partially reported based on when election groups (Precinct, Absentee, etc.) are received in EMS.	Y	The ability to report precincts as completely or partially reported based on when election groups are received in EMS has been built into EVS 6.0.0.0 for Michigan. Reporting users can visually see updates to poll media, as well as view the Ballots Cast Dashboard at any time. This Dashboard displays the Election Day Precincts Completed, plus Precincts in Progress. The software also offers multiple reports showing media processed based on election groups and the number of precincts reporting. This version is expected to enter EAC certification by June 2017.
1.2.D.8	OPTIONAL REQUIREMENT: The ENR system should allow users to view data by pre-defined groups (precinct, absentee, combined precinct/absentee, etc.).	Y	ERM allows the user to configure up to 14 defined reporting groups. Examples of commonly used reporting groups might be: Election Day, Absentee Mail Ballots, Absentee Walk-In, Early Vote, and Provisional. User defined groups allow the election staff to tailor their reports for varying audiences to show results by each of the selected categories. ERM reports have the option to either show totals by group or cumulatively.
1.2.D.9	OPTIONAL REQUIREMENT: The ENR system should allow the public to determine the total number of precincts, the number of precincts completely reported and the number of precincts partially reported.	Y	The ability to report the total number of precincts, the number of precincts completely reported and number of precincts partially reported has been built into EVS 6.0.0.0 for Michigan. Reports offer the choice of displaying the number of Precincts in Progress, the number of Precincts Completed and/or the culmination of these totals represented by the number of Precincts Reporting. These statistics are options in reports and exports. This release expected to enter EAC certification by June 2017.
1.2.D.10	OPTIONAL REQUIREMENT: The ENR system should generate presentable, county and state configurable web results displays listing proportion of precincts (not election groups) reported for each contest and display precinct-level results.	Y	ElectionwareResults is a web-based application that displays county results. Precincts or Summary results are displayed along with the number of precincts reported for each contest. ElectionwareResults is hosted at a third party data center. ElectionwareResults includes both tables and graphical displays. It allows the users to download the reports in PDF directly from the public page. ElectionwareResults displays can be viewed statically or in an automated scrolling mode that continuously rolls and updates itself. This application is included in Contractor's solution at no additional cost.

1.2.D.11	The ENR system shall supply an export utility that extracts current/up-to-date election results from the native data repository in a format that is easily provided to the State, county and/or local jurisdiction (e.g., ASCII), allowing the State, county and/or local jurisdiction to display election results via a third party software vendor.	Y	All ERM Results and Canvass reports may be saved to the system or onto an electronic media. Result data can be exported from ERM in several user selectable formats. These include 4 ASCII files formats (two are precinct-results based and two are summary-results based), an XML format, a CSV file format, and state specific formats used for state results aggregation.
1.2.D.12	The ENR system shall provide for a report of precincts reporting and not reporting on election night. The ENR system shall provide for the report to be printed or exported in a CSV or other format prescribed by the State.	Y	ERM offers a number of canvass reports, including the Precincts Counted/Not Counted Report, the Precincts Completed Listing (showing ballots cast totals), and the Precinct Processed Listing (displaying ballots cast for each machine serial number). Each of these reports can be printed as many times as needed or saved and exported. At the Poll 1. Polls are closed on the DS200. The tabulator will automatically print all pre-determined copies of the results report. 2. A screen is automatically displayed to the poll worker asking if they are ready to transmit the results. A modem signal strength indicator is displayed on the screen. 3. To proceed with results transfer, the poll worker presses the touchscreen button labeled "Begin Transfer." • Note: This is the only manual action taken in this process. Every step from this point forward is entirely automated. At Election Headquarters 4. The DS200 establishes a secured wireless connection to the telecommunications server, deposits its results data on the server, and terminates its connection to the server. 5. Once validated, the results data package is automatically moved from the telecommunications server to the database server. 6. ERM is consistently monitoring the database server for new results. Since a new data package is available, ERM automatically reads in the results. 7. ERM automatically displays a notification with the following information: • The name of the precinct that has been received • The number of ballots cast in the precinct. 8. ERM then returns to the automated process of monitoring the database server. 9. If a second ERM workstation is available, an automated scrolling display will provide information on Precincts Processed or Not Processed. 10. If only one ERM workstation is available, the user briefly cancels the automatic processing of results data (Item 6 in this list) and runs a report that details Precincts Reported/Not Reported.

1.2.D.12	Continued.	• Once the user has obtained the necessary Precincts Reported information, they simply restart ERM's automated process of reading in results data. ERM then processes any results data that may have been transferred during the interim. • As has been mentioned previously, ES&S is engaged in development that would add results accumulation and reporting to Electionware, effectively negating the need for ERM. When this functionality is complete and certified for use in Michigan, the automatic transfer and processing of results data will operate in a very similar fashion. Results and statistical information will be much more readily accessible through reports and a dashboard interface. Additionally, the automated process of reading in transmitted results will not need to be terminated in order to view Precincts Reported/Not Reported information. This integration of Election Reporting Manager (ERM) into Electionware is being developed as part of our upcoming EVS 6000 release, which is scheduled to enter EAC certification by Second Quarter 2017. STATUS UPDATE This integration of Election Reporting Manager (ERM) into Electionware is being developed as part of our upcoming EVS 6000 release, which is scheduled to enter EAC certification by Second Quarter 2017. TIMELINE - Contractor will conclude the development phase for EVS 6.0.0.0 in the spring of 2017. Once development is complete, Contractor will conduct testing and pre-EAC activities with plans to submit the release to the EAC for certification in the summer of 2017. PLANNED ENHANCEMENTS TO EMS REPORTING Ability to Report by Splits: Allows for results to accumulate and report registered voters, ballots cast and results by split Preset Reporting Groups: Memory devices shall be programmable to report based on a preset Reporting Group (i.e. Election Day Precinct, AV precinct results)
1.2.D.12	Continued.	Enhanced Precincts Reporting Electionware will present a precinct as completely or partially reported based on when Poll Media (Precinct, Absentee, etc.) are received in the EMS. Live Status Pane provides instant updates on Total Election Day Precincts Completed and Precincts Partially Reporting Live Navigator Pane displays status of each media device using a tree view and status icons Media Status Report reflects which media has been loaded, transmitted or not yet loaded. Enhanced Results Reports Reports can be organized and displayed by Precinct, Split, Poll or Ballot Style Reports showing contests by district (for example, Congressional totals for Presidential race) Modernized look and format Options to show total number of precincts completed, precincts partially reported and the voter turnout percentage Candidate sorting options: alphanumeric/ballot order or by highest votes Page layout options such as portrait/landscape, one/two column format, list view or table view Options to display certified Write-in Names and associated totals Write-in Management Certified write-in names can be entered into the EMS and assigned to a ballot image Specified write-in names are tallied and reportable in Results Reports or in a custom table view Prevent Election Results Display Based on Michigan's 1.2.E.14 requirement, an Administrative role was added to allow the jurisdiction to prevent any reports with election results to display in the EMS until the Administrator chooses.

1.2.D.13	The ENR reporting system shall provide for the replacement of an already-submitted precinct by the re-submission of that same precinct in the event of errors in transmission or new data. The system should prompt the local administrator to either overwrite data already submitted, or provide an option to ignore new data.	Y	Election Reporting Manager (ERM) allows precinct results to be updated after initial results are updated if more ballots are added to the poll media. For example, if more ballots are found in an emergency bin, the poll may re-opened on a DS200, the additional ballots scanned, and polls closed. As the updated results are re-sent (or re-uploaded), ERM will recognize the change and automatically update using the new results, eliminating any possibility of doubling the totals. Given the "smart" update process, ERM does not need to provide an option to ignore the new data. If the results are identical (i.e the election official processes poll media twice), ERM notifies the user that the results are identical and does not use the data provided in the second transmission. To create Replace/Add To determination, the "smart" update process tracks the following: the machine the polls were closed on and when the first and last ballots, included in the results, were cast. The timestamp of the last ballot processed determines if additional ballots have been cast since the last time it was loaded in ERM. • If the exact same results are re-sent, ERM will not update the results. A message will appear to inform the user the data has already been loaded. • If the user uploads, then re-opens on the same tabulator, then adds more ballots, the results can be re-sent. In this case, ERM will receive the new results and will replace the previous results from that poll media with the updated cumulative total. The intelligence built into this process eliminates the need for an administrative override. The user is not required to make a decision on whether to Add To or Replace results as it did in previous versions of ERM.
1.2.D.14	The ENR system shall provide for the ability to import the State-provided file of candidate information and statewide ballot proposal information in its entirety. The import must be seamless with a minimal need for manual manipulation after the fact.	Y	The ES&S system will seamlessly import the State-provided file of candidate information and statewide ballot proposal information in its entirety. The State, counties and local jurisdictions can import other data elements, as well, such as districts, offices, precincts, candidates, parties, polls, poll to precinct relationships, district to precinct relationships, plus all translations for the imported data elements.
1.2.D.15	The ENR system shall be capable of passing Michigan ENR Codes into the Vendor EMS and returning the codes in the results file. Codes include precinct, office and candidate codes.	Y	The ES&S system is capable of passing Michigan ENR Codes, including precinct, office, and candidate codes, into the EMS and returning the codes in the results files. Additionally, ES&S will provide the ERM Results Export Program (EXP) utility to meet the Michigan Standard Results File creation requirement as defined in the Exhibit 6 to Schedule A Michigan QVF Export File Format. The EXP Utility include the QVF Identifiers for offices, candidates and precincts from QVF data imported into the EVS Electionware module. This functionality is included in the Contractor's software solution at no additional charge.

1.2.D.16	The ENR system shall provide for the ability to import Ballot Definition Data using the Michigan QVF Export File Structure or IEEE Standard for Ballot Definition when implemented by the State. See Exhibit 1 to Schedule A Federal Voting System Testing / Certification Matrix and Exhibit 6 to Schedule A Michigan QVF Export File Format for additional details.	Y	The ES&S Voting System Election Management product supports the import of industry standard, comma separated values (CSV) files to load election Ballot Definition Data. Michigan's Uniform Data Format could be utilized to create Electionware import files. Contractor agrees and will comply with these Michigan-specific uniform data format requirements and Federal IEEE Standards. The ES&S EVS Election Management product supports the import of industry standard, comma separated values (CSV) files to load election Ballot Definition Data. Michigan's Uniform Data Format could be utilized to create Electionware import files.
1.2.D.17	The ENR system shall provide for the import of a replacement file which incorporates any and all changes in the State-provided file. The import of the file cannot affect any of the local candidate information or local ballot proposal information already entered into the system.	Y	Using Electionware's Import Wizard, data can be imported as only a segment of the election or the entirety. The Import Wizard also has the ability to Add data, Add and Update data, as well as Add, Update and Delete data.
1.2.D.18	The ENR system shall provide for the manual update of the State-provided file information after it has been imported. The manual update process shall be easy to use with minimal steps.	Y	The ES&S Voting System Election Management product supports the import of industry standard, delimited files to load election ballot data. You can choose which type of Field Delimiter. These files are very simple TXT files that include element and field identifiers in each and every file to eliminate any guesswork in how the data is organized. The first line shows the element type (i.e. parties, contests, candidates, precincts, districts, etc). The second line displays the field identifiers. Here is a sample of a party import, which is delimited by the " " character:



By selecting the "Import Data" button, all election data can be imported simultaneously.

Once election data is imported, every field imported can be easily edited in Electionware's Capture module. The user can simply type in the data entry fields and update as needed.



Party Graphic
Party Graphic File

REPEn.bmp

Current Graphic



Additional Information

English

Item Name	English
Party Name	REPUBLICAN
Additional Text 1	REP
Additional Text 2	A
Additional Text 3	
Additional Text 4	
Additional Text 5	
Additional Text 6	
Additional Text 7	
Additional Text 8	
Additional Text 9	
Additional Text 10	

1.2.D.19	The ENR system shall provide for the ability to produce Election Result Data in the Michigan Standard Results File Format or IEEE (1622.2) Election Results Reporting Data Interchange Format. See Attachment 1.5 for additional details.	Y	The ES&S system includes an application named ERM Results Export Program (EXP) Utility that exports precinct-by-precinct vote totals. Most often, state-specific versions of the EXP Utility are created that tailor exported data to meet the needs of the state in question. We created a version of EXP that exports precinct-by-precinct vote totals in the exact file format required by the Michigan Standard Results File Format. This functionality is included in our proposed software solution at no additional charge as designated in Exhibit C, Pricing. See the Example Precinct Results File and Example Summary Results File, attached hereto as Appendix F, for files that can be produced by our ERM Results Export Program (EXP) Utility, which is included in the Contractor's EMS system at no additional cost.
1.2.D.20	The ENR system shall provide for the export of the precinct-by-precinct vote totals of the candidate and proposals as required by the State-provided file format. The export must be seamless with a minimal need for manual manipulation after the fact.	Y	The ES&S system includes an application named ERM Results Export Program (EXP) Utility that exports precinct-by-precinct vote totals. Most often, state-specific versions of the EXP Utility are tailored to meet the needs of the state in question. ES&S created a version of EXP Utility that exports precinct-by-precinct vote totals in the exact file format required by the Michigan Standard Results File Format. In full compliance with this requirement, the export is seamless with a minimal need for manual manipulation of data.
1.2.D.21	The ENR system shall provide for the export of the county-wide totals of the candidates and proposals as required by the State-provided file format. The export must be seamless with a minimal need for manual manipulation after the fact.	Y	The ES&S system includes an application named ERM Results Export Program (EXP) Utility that exports county-wide totals of the candidates and proposals. Most often, state-specific versions of the EXP Utility are tailored to meet the needs of the state in question. ES&S created a version of EXP Utility that exports county-wide totals of the candidates and proposals in the exact file format required by the State of Michigan. In full compliance with this requirement, the export is seamless with a minimal need for manual manipulation of data.

1.2.D.22	The ENR system shall provide for the export of precinct by precinct totals, jurisdiction totals and county-wide totals on election night or as the county is able. The EMS shall not limit the number of times a file can be exported.	Y	ERM allows for each report (Precinct Summary, Election Summary, plus canvass reports) to be exported as many times and as often as needed by the jurisdiction. This includes information scheduled in the ERM Results Export Program (EXP) utility planned for the State of Michigan.
1.2.D.23	The ENR system shall support reporting results in a variety of different election report-style formats, including Summary contest and Precinct Level.	Y	ERM contains a Precinct Report (list of individual precincts and contest results for each precinct) and an Election Summary Report (voting results for all candidates, all contests). For both reports, the user can select the precincts or contests to include in the report. ERM also offers a number of canvass reports to present the election night reports in different formats.

E. Reports			
1.2.E.1	The Contractor's EMS shall include a reporting feature that allows for the creation and customization of election night totals (unofficial results); county and State canvass reports (certified official totals); as well as ad hoc reporting. Specific requirements are outlined below. The Contractor shall include a detailed description of all available EMS reporting features, including samples of all available election night (unofficial totals) and canvass (official totals) reports. The Contractor shall also respond to each individual requirement in this section to provide details and samples of EMS reports available that meet each individual requirement.	Y	Our EMS includes the creation and customization of election night totals (unofficial results); county and State canvass reports (certified official totals); as well as ad hoc reporting. Please see Exhibit 7 to Scheule A, Sample Reports , for detailed descriptions of all available EMS features and sample reports.
1.2.E.2	The EMS shall be capable of generating all reports on standard letter size paper (8.5 x 11 inches).	Y	Electionware and ERM can generate reports on standard 8.5 x 11-inch paper.
1.2.E.3	The EMS shall provide for unofficial and official reports and canvass documents in a standard format that can also be customized at the option of the county or State user; including the display of both absentee and election day vote totals, as well as grand totals in any given precinct. The system shall be capable of producing official and/or unofficial election result reports consisting of any combination of vote data, and presented in any available format; to be produced at any time during the tabulation of votes, or thereafter.	Y	The user would procedurally change the report heading from "Unofficial Results" to "Official Results" (or any other desired wording). This allows them to use the same exact reports without any data being changed. Each report can be produced at any time (before, during, after tabulation occurs). The status Official/Unofficial is dictated by the user within the reporting heading. All Precinct and Summary reports can be printed with or without group/category subtotals. Group subtotals can be configured for Absentee, Election Day, etc. Canvass reports can also be printed for selected groups if desired.

1.2.E.4	The EMS shall provide the ability to custom design an election report to include, at a minimum, the following information in total or in part: name of election; political subdivisions; parties involved; date of election; type of report; total number of registered voters in each political subdivision; total number of registered voters in each voting precinct, including a sub-listing when the precinct is split; and votes by multi-member districts (i.e., vote for two), legislative district or congressional district.	Y	Election report headings can be customized as needed. Reports include the name of the election, political subdivisions, parties included in the election, date of election, type of report, total number of registered voters in each political subdivision, total number of registered voters in each voting precinct. Although sub-listings are not provided by default when a precinct is split, and the legislative or congressional districts are not included by default, those reports could be obtained through customized query.
1.2.E.5	The EMS shall be capable of sorting by fields or permitting the user to customize layout.	Y	Electionware allows users to sort information by fields and customize the layout of various reports through the use of our unique Table View feature. Table View is available for most elements of Electionware. It displays a wide array of information for a specific type of data in a convenient, sortable table. For example, Table View would allow the user to view information about all of their contests in a single table. Default information that is displayed for each contest includes: • Contest order • Contest Title • Contest Type • Party Affiliation • District Information • Vote for number • Number of Write-ins • Candidate Rotation The user is able to customize Table View adding or removing columns of information. For example, there are over 35 different types of information that can be included in Table View for Contests. Each of these columns is fully sortable, and the information presented in Table View can be exported at any time to XLSX or CSV.

1.2.E.6	The EMS shall provide flexibility in printable reports showing results containing candidates and/or questions in alphanumeric format/ ballot order, etc. next to the vote totals. The Contractor shall include details on the available options for customizable reporting and customizable printing (e.g., font availability and sizes, page layout, etc.).	Y	ERM reports offer many reporting options. Users can customize report headings as needed. It provides the ability to print candidates in vote sequence, listing candidates in order of the greatest vote tally first vs the order that candidates appear on the ballot. When displaying reports, ERM also allows the user to update the font size. ERM reports can be exported and customized as needed outside of our EMS system. Users can define the precincts, and contests that are included, whether or not overvote & undervotes are included, whether vote totals are included for each contest and how candidate percentages are calculated (percentage of votes cast or eligible votes). Contractor has planned even more enhancements to increase the flexibility of customizing these reports, many of which will be part of EVS 5.8.0.0. Software licensing fees include future enhancements. In Electionware, the jurisdiction can load election results data, filter, and export poll place and ballot records, and generate different types of reports. Also in Electionware, the user can view, save, and print HTML and XML versions of the Election Summary Results report. When printed from the CSV, RTF, PDF and XLS formats, the font, text size, and page layout can be adjusted within the programs the data is exported to. Designed with a new Reporting module, EVS 6.0.0.0. offers many options available to create reports by Precinct, by Split, by Poll, by Ballot Style, by District and more. This version is expected to enter EAC certification by June 2017.
1.2.E.7	The EMS shall provide for the official report of countywide vote totals for State offices and proposals in a form prescribed by the State. The report shall provide for the vote totals to be reported in numeric and written form (linked to the official canvass report).	Y	The ES&S system includes an application named ERM Results Export Program (EXP) Utility that exports totals as defined by the state. Most often, state-specific versions of the EXP Utility are tailored to meet the needs of the state in question. ES&S created a version of EXP Utility that provides vote totals in the exact file format required by the Michigan Standard Results File Format. This functionality is included in the Contractor's software solution at no additional charge as designated in Schedule C, Pricing.

1.2.E.8	The EMS shall generate pre- and post-election reporting with the following data: 1) contests and candidates in election, 2) precinct attributes such as Voter Registration totals, modem numbers, etc., 3) candidate rotations by contest and precinct with Voter Registration totals, 4) Voter Registration totals, 5) precincts reported, 6) linked precincts and districts, 7) contest by precinct, 8) ballot styles by precinct and by district, 9) headers by precinct, 10) export codes, 11) statement of votes cast detailing all contests and precincts, 12) election "milestones" by precinct such as programming, memory device, reporting results, 13) proofing report for proofing candidates and contests.	Y	1. Contests and candidates are displayed in numerous reports in Electionware as well as the ERM Precinct or Election Summary report. 2. Precinct voter registration totals can be displayed and reviewed in ERM canvass reports. Modem numbers can be proofed from Electionware's Configure report. Electionware can also report on Voter Registration totals if entered in this portion of the EMS system. 3. Candidate rotations by precinct are reported in Electionware's Capture Rotation report. 4. Voter Registration totals are provided in Electionware Capture Table Views as well as ERM Canvass reports. 5. Precincts reported totals appear in various ERM reports (Precinct Summary and Election Summary) as well as exports (ASCII, XML Results export). 6. Linked precincts and districts appear in Electionware's Capture Precinct by District report and District by Precinct report. 7. Contest by precinct can be reviewed in Electionware's Configure Ballot Detail Report. 8. Ballot styles by precinct and by district can be reviewed in Electionware's Configure Jurisdiction Ballot Style Listing. 9. Headers can be reviewed in Electionware's Capture Header Table View. 10. Export codes are available for proofing in Capture's Table View. Additionally, the ES&S EXP Utility offers reports for proofing state export codes. 11. ERM offers reports with statement of votes cast detailing all contests and precincts. 12. These milestones can be found in a number of Electionware reports. Users can see which media is burned in Package reports and exactly how tabulators are set up with Configure reports. Everything that is entered or configured in Electionware can be displayed in an Electionware report. 13. Capture's contests and candidates Table View can be customized and sorted to show whichever fields you would like to proof/report.
1.2.E.9	The EMS shall be capable of generating election results reports in standard electronic formats for distribution (.docx, .pdf, .html, .csv, .txt, ascii, xml).	Y	Electionware reports can be saved in several formats including PDF, .xlsx, .html, etc. Additionally, Electionware tables can be customized by the user and then exported to Excel spreadsheets, which allows reporting on user defined sub-sets of data. Result data can be exported from ERM in several user selectable formats. These include 4 ASCII files formats (two are precinct-results based and two are summary-results based), an XML format, a CSV file format, and state specific formats used for statewide results aggregation (Statewide EXP format as described above).
1.2.E.10	The EMS shall be capable of producing reports on election night, without disrupting the results accumulation process.	Y	ERM reports can be produced on election night on one PC while another ERM PC is processing results. As the reports are prepared, they will always display a timestamp and date to show the results as of that time period.

1.2.E.11	The EMS shall be capable of producing reports that include user customizable report headers and/or footers (election type, date of election, county name, jurisdiction name, date/time of report, results status).	Y	ERM reports and canvasses offer user customizable report headers, including fields to show election type, date of election, county name, jurisdiction name, and report status. ERM and Electionware provide the time/date that the report was generated. Electionware's powerful Table View tool also allows for custom reporting of all pre-election elements such as precincts, district, contests, ballot styles and candidates. These table views can be exported to Excel spreadsheets and contain all election data attributes handled by the Capture module. Information in the Table View can be organized for viewing, sorted, and customized by changing the column headers. Each Table View can then be exported as needed. The lower half of the Table View screen also displays the relationship of various selected items. This is a powerful tool in Electionware, allowing for custom reporting of all information that will apply to the voting equipment and reporting software.
1.2.E.12	The EMS shall be capable of producing a report that includes the jurisdiction, precinct number and the type of election results (Total, Precinct, Absentee, Provisional, etc.).	Y	Election Reporting Manager (ERM) is capable of producing reports that include the jurisdiction, precinct number, and the type of election results captured in the report. Users also have the ability to customize the group names (Precinct, Absentee, Provisional, etc.).
1.2.E.13	The EMS shall be capable of producing reports that include the following data elements in the body of the report:	Y	
	a. the name of each contest on the ballot (e.g., Governor, Delegate, President);	Y	ERM and Electionware reports contain the name of each contest.
	b. the names of each candidate in each contest or race;	Y	ERM and Electionware reports contain the name of each candidate in each contests or race.
	c. the party affiliation of each candidate in each contest or race;	Y	ERM and Electionware reports contain the name of each candidate in each contest or race and the party affiliation.
	d. the number of choices for each contest or question (e.g., vote for 1);	Y	ERM and Electionware reports contain the number of choices for each contest or question.
	e. the vote totals for each candidate in each contest or race, by precinct, AVCB and combined total;	Y	The ERM Precinct Summary report contains the vote totals for each candidate in each contest or race, by precinct, AVCB and combined total.
	f. the total votes for each contest;	Y	The ERM Precinct Summary report contains the total votes for each contest.
	g. the winning selection for each contest, indicated by bolding or some other mark;	Y	ERM has a user selectable option to print the Election Summary report in descending candidate vote order. This places the winning candidate(s) at the top of the list. In addition to total votes it also shows the percentage of votes cast for each candidate. The ERM summary results scrolling screen provides an option to identify winners and display them accordingly.

h. the title and number of each question on the ballot (e.g., "County Question A, State Question 1");	Y	ERM and Electionware reports contain the name of each question on the ballot as entered in Electionware's Capture module.
i. the possible selections for each question or contest, (e.g., "For", "Against", "Yes", "No" or a blank);	Y	ERM and Electionware reports contain the possible selections of each question on the ballot as entered in Electionware's Capture module.
j. the total number of precincts for the election;	Y	The ERM Election Summary report contains the total number of precincts in the election
k. the percent of reporting precincts versus the total number of precincts;	Y	The ERM Election Summary reports the percent of reporting precincts versus the total number of precincts.
l. the total number of registered voters;	Y	The ERM Election Summary report contains the total number of registered voters.
m. the total number of registered voters that voted in the election;	Y	The ERM Election Summary report displays the number of registered voters that voted in the election.
n. the total percent of voter turnout;	Y	The ERM Election Summary report displays a total percent of voter turnout.
o. the number of overvotes in each contest or race;	Y	The ERM Election Summary report contains an option to include the total number of overvotes in each contest or race.
p. the number of undervotes in each contest or race;	Y	The ERM Election Summary report contains an option to include the total number of undervotes in each contest or race.
q. the total number of votes for all write-in candidates;	Y	The ERM Election Summary report contains the total number of votes for all write-in candidates.

r. overall "Election Results Reports" - reports of election results filtered by congressional district, legislative district, custom districts (e.g. council district, commission, school board, county/jurisdiction, wards), precinct including precinct splits, candidate political party affiliation, and by the number of partisan and non-partisan ballots cast;	Y	Users may create ad hoc reports filtering certain precincts and/or contests by district as needed. These ad hoc reports may also be saved for reuse for various elections. Reports display the district name assigned to a contest automatically. Precinct split totals will display on the overall precinct level in ERM. Candidate political party affiliation can be viewed on the ERM reports. Ballots cast by partisan and non-partisan totals are included for Primary elections. ERM produces a large variety of standard election reports and displays that can be tailored in accordance with specific requirements. High-speed printers are configured as part of the system to print hard copies of reports when desired. ERM reports include: • Precinct Results Report • Precinct Results Report with Group Detail • Election Summary • Election Summary with Group Detail • Number Key – Statistics Only Canvass • Number Key – Districts Only Canvass • Candidate Name Heading Canvass • District Totals – Election Day A/V Combined Canvass • Block Style Canvass • Jurisdictional Canvass • Local Office Canvass • Precincts Counted/Not Counted Canvass • Precincts Completed Listing • Precincts Processed Listing • System Log • Manual Entry Log
s. a list, capable of being produced at any point in the process, showing which precinct or absentee/memory devices have been uploaded to the EMS, and which have not been uploaded to the EMS;	Y	At any time during the election, ERM offers a Precincts Processed Listing displaying all serial numbers uploaded to the EMS as well as the ballots cast. When modeming is used, a DS200 Media Transmitted versus Not Transmitted report is used so the jurisdiction can quickly see which tabulator media has not been transmitted yet. However, this is not available if the jurisdiction is not transmitting results electronically from the poll. ERM can report which memory devices have been processed in one of the canvass reports. As images and equipment logs are archived in ERM, the Electionware Acquire Module will display/report the media status (loaded and not loaded) per precinct.
t. the capability for the reporting of ballots cast in split precincts;	Y	Although ERM does not have the ability to report ballots cast or contest results by split in a split precinct, Electionware has the ability to export an Excel file containing all Cast Vote records. Using Excel's sort and count functions, ballots cast and/or contest results by split can be determined. The ability to report ballots cast in split precincts has been built into EVS 6.0.0.0. for Michigan. This release is expected to enter EAC certification by June 2017.
u. OPTIONAL REQUIREMENT: the EMS shall be capable of adding the names of certified write-in candidates to the EMS and reports.	Y	ERM allows the name of a write-in candidate to be updated within the system. The updated name can be displayed on reports if needed. Write-in name management and tabulation has been built into EVS 6.0.0.0. for Michigan. Multiple users on a closed network can assign write-in names simultaneously. The software will tally the names to display in reports. This version is expected to enter EAC certification by June 2017.

1.2.E.14	The EMS shall prevent the printing of summary reports before the sequence of events required for closing of the polls are completed.	Y	This is typically handled procedurally in the EMS software. Since all EMS users are given user names and passcodes, each step, including printing summary reports, is logged and transparent within the system. The DS200 will prevent the printing of summary reports before the sequence of events required for closing polls are completed. ES&S central count tabulators include an option that would require a password before printing summary reports. The functionality to automate prevention of printing system reports from EMS software has been added into EVS 6.0.0.0. for Michigan. A Reporting module administrator can turn on and off the ability to add, edit or even view reports with election results in Electionware. This allows the user to prevent printing or viewing of summary reports as needed. This version is expected to enter EAC certification by June 2017.
1.2.E.15	OPTIONAL REQUIREMENT: (For use if an 'Early Voting' option is implemented in the future) - The EMS shall be capable of producing reports including the number of ballots cast or read into each precinct without closing the polls or revealing any preliminary results data.	Y	Currently, the ES&S Voting System is only capable of producing reports, including the number of ballots cast or read into each precinct, after closing the polls. In ERM, each group can be removed procedurally from reports and re-enabled as needed. This allows the user to have complete control over which results can appear on the ERM reports.
F. Audit Capabilities			
1.2.F.1	The EMS shall provide an audit log stored on the memory device that records all pre-Election, Election Day and post-election actions performed; the audit log must be kept / stored and available for printing.	Y	Electionware maintains an Election Audit Events log for every action the user performs within the application, including system prompts to the user and the user's response to these prompts. They are persisted in the audit schema of the election database. Each event tracks the timestamp of the event and the user who performed the action. Additionally, an Admin Audit Events log is maintained. This log stores all of the events that are generated when an election is not currently open (e.g., user creation, user login/logout, etc.). This log also contains the timestamp and name of the user who performed the action. Both logs can be filtered by date and event type and printed in a variety of file formats including .pdf, .rtf, .html, .xls, and .csv. With regard to hardware, the DS200 audit log report lists all events (errors, alarm conditions, ballot handling exceptions, and user initiated functions) that occur on the system from the time an election worker inserts the USB memory device into the machine until it is removed. Each event appears in the audit record with a date and timestamp. The DS200 audit log also retains entries from all internal components capable of producing an audit log entry, including the power management board, the scanner hardware board and the election processing firmware. Once DS200 results have been transferred to Electionware, the DS200 audit logs from every unit used in the election are available to be centrally viewed or printed. The DS450 also maintains an internal audit log that records all major events that occur in the course of an election. The DS450 audit log can be exported to a USB memory device and, like the DS200, be viewed, printed and archived using Electionware. Additionally, the DS450 features an optional dot matrix printer that records audit events in real time. The ExpressVote maintains an internal audit log that records all major events that occur in the course of an election. Audit logs are constantly updated in the system background and saved to the inserted ES&S USB memory device in a circular buffer. Stored audit records are not affected by system power interruptions. Poll workers can view audit logs on the unit's touch screen or printed sheet. Machine level audit reports may be generated at any time from each of the system's administrative menus, and each log entry is numbered and includes event details.

Finally, ERM maintains a robust audit log that tracks all actions taken within the application. Like Electionware, each event includes the timestamp of the event as well as which user performed the action in question. The ERM audit log also tracks user sign-in/sign-out.

1.2.F.2	The EMS shall include an available report that documents information regarding the tabulator, firmware and software versions in use.	Y	All firmware version information is part of a configuration report that generates each time a unit is powered on. These reports are checked against the expected version. ES&S does not certify nor recommend using multiple versions simultaneously such that a customer would need to track which version a machine has installed. The Contractor's voting system audit log provides sufficient information to allow the auditing of all operations related to ballot tabulation, results consolidation, and report generation.
1.2.F.3	The EMS shall provide an error message log that documents error messages; the error message log must be kept/stored and available for printing.	Y	Electionware meets all of the above audit log file requirements. All activity, including application errors, log to the Electionware internal audit log database. User logs record each activity including type, date, time, ES&S application, and user ID. They can be printed based on a user specified date range.

G. System / Software Ownership

1.2.G.1	This Contract includes a standard Software License Agreement, Schedule B,	Y	Refer to Schedule B, Software License Agreement.

Sample Test Deck - A2.A.28

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ELECTION SYSTEMS & SOFTWARE, LLC CONTRACT No. 071B7700120**Exhibit 2, Attachment 1.3 Voting System****ABSENT VOTER (AV) PROCESSING****Technical Requirements**

Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
A. AV Processing (General)				
1.3.A.1	All requirements listed in Attachment 1.1 (HARDWARE requirements) also apply to hardware used with absent voter (AV) ballots and AV voting, including jurisdictions in which separate Absent Voter Counting Boards (AVCBs) are used to process AV ballots on Election Day. The following requirements in this section are requirements related to AV processing, in addition to all requirements listed in Attachment 1.1, HARDWARE Technical Requirements .			
1.3.A.2	AV ballots shall be the same ballot type and size as that used in the Election Day precinct.	Y		The Contractor's solution shall use the same ballot type and size in AV voting as those used in precincts on Election Day. Because the Contractor's solution uses their Electionware EMS, the ballot type and size would be consistent for AV ballots and Election Day ballots.
1.3.A.3	The Contractor shall provide information indicating the ballot processing speed for each of the following types of ballots:	Y		
	a. Flat ballots	Y		DS200 The DS200 nominal processing speed for flat ballots in ballots per minute (bpm): 11 inches - 12 bpm; 14 inches - 11 bpm; 17 inches – 10.5 bpm; 19 inches - 10 bpm. Throughput depends on voting variables, including the length of time it takes the operator to insert the ballot into the tabulator for processing. Throughput would increase in an AVCB situation wherein ballot prompts were removed. The DS200 was designed to function primarily as a precinct-based scanner/tabulator. However, jurisdictions with small absentee voter populations use the DS200 to tabulate their absentee ballots. Ballots are manually fed into the DS200, which scans, images and tabulates the ballot. DS450 The DS450 nominal processing speed for flat ballots in ballots per minute (bpm): 11 inches - 92 bpm; 14 inches - 75 bpm; 17 inches - 63 bpm; 19 inches - 50 bpm.

1.3.A.3 <i>continued</i>	b. Half-folded ballots	Y	DS200 The DS200 nominal processing speed for half-folded ballots in ballots per minute (bpm): 11 inches - 12 bpm; 14 inches - 11 bpm; 17 inches – 10.5 bpm; 19 inches - 10 bpm. Throughput depends on voting variables, including the length of time it takes the operator to insert the ballot into the tabulator for processing. Throughput would increase in an AVCB situation wherein ballot prompts were removed. The DS200 was designed to function primarily as a precinct-based scanner/tabulator. However, jurisdictions with small absentee voter populations use the DS200 to tabulate their absentee ballots. Ballots are manually fed into the DS200, which scans, images and tabulates the ballot. DS450 With the DS450 TruGrip and patented design, the nominal processing speed for half-folded ballots is the same as that for flat ballots, assuming the appropriate level of ballot preparation has been performed to allow the ballots to be separated from the input stack at high speed. The DS450 nominal processing speed for half-folded ballots in ballots per minute (bpm): 11 inches - 92 bpm; 14 inches - 75 bpm; 17 inches - 63 bpm; 19 inches - 50 bpm.
1.3.A.3 <i>continued</i>	c. Tri-folded ballots	Y	DS200 The DS200 nominal processing speed for tri-folded ballots in ballots per minute (bpm): 11 inches - 12 bpm; 14 inches - 11 bpm; 17 inches – 10.5 bpm; 19 inches - 10 bpm. Throughput depends on voting variables, including the length of time it takes the operator to insert the ballot into the tabulator for processing. Throughput would increase in an AVCB situation wherein ballot prompts were removed. The DS200 was designed to function primarily as a precinct-based scanner/tabulator. However, jurisdictions with small absentee voter populations use the DS200 to tabulate their absentee ballots. Ballots are manually fed into the DS200, which scans, images and tabulates the ballot. DS450 With the DS450 TruGrip and patented design, the nominal processing speed for tri-folded ballots is the same as that for flat ballots, assuming the appropriate level of ballot preparation has been performed to allow the ballots to be separated from the input stack at high speed. The DS450 nominal processing speed for tri-folded ballots in ballots per minute (bpm): 11 inches - 92 bpm; 14 inches - 75 bpm; 17 inches - 63 bpm; 19 inches - 50 bpm.

1.3.A.3 <i>continued</i>	d. Z-folded ballots	Y	DS200 The DS200 nominal processing speed for Z-folded ballots in ballots per minute (bpm): 11 inches - 12 bpm; 14 inches - 11 bpm; 17 inches – 10.5 bpm; 19 inches - 10 bpm. Throughput depends on voting variables, including the length of time it takes the voter to insert the ballot into the tabulator for processing. Counts also would vary, but would increase, in an AVCB situation wherein ballot prompts were removed. The DS200 was designed to function primarily as a precinct-based scanner/tabulator. However, jurisdictions with small absentee voter populations use the DS200 to tabulate their absentee ballots. Ballots are manually fed into the DS200, which scans, images and tabulates the ballot. DS450 With the DS450 TruGrip and patented design, the nominal processing speed for Z-folded ballots is the same as that for flat ballots, assuming the appropriate level of ballot preparation has been performed to allow the ballots to be separated from the input stack at high speed. The DS450 nominal processing speed for Z-folded ballots in ballots per minute (bpm): 11 inches - 92 bpm; 14 inches - 75 bpm; 17 inches - 63 bpm; 19 inches - 50 bpm.

1.3.A.3 <i>continued</i>	e. Letter folded ballots of various supported lengths	Y	DS200 The DS200 nominal processing speed for letter folded ballots in ballots per minute (bpm): 11 inches - 12 bpm; 14 inches - 11 bpm; 17 inches – 10.5 bpm; 19 inches - 10 bpm. Throughput depends on voting variables, including the length of time it takes the operator to insert the ballot into the tabulator for processing. Throughput would increase in an AVCB situation wherein ballot prompts were removed. The DS200 was designed to function primarily as a precinct-based scanner/tabulator. However, jurisdictions with small absentee voter populations use the DS200 to tabulate their absentee ballots. Ballots are manually fed into the DS200, which scans, images and tabulates the ballot. DS450 With the DS450 TruGrip and patented design, the nominal processing speed for letter folded ballots of various supported lengths is the same as that for flat ballots, assuming the appropriate level of ballot preparation has been performed to allow the ballots to be separated from the input stack at high speed. The DS450 nominal processing speed for letter folded ballots of various supported lengths in ballots per minute (bpm): 11 inches - 92 bpm; 14 inches - 75 bpm; 17 inches - 63 bpm; 19 inches - 50 bpm.

**B. High-Speed
AVCB Tabulator**

1.3.B.1	OPTIONAL REQUIREMENT: Y The Contractor shall describe available options for a high-speed tabulator used to process AV ballots in an AVCB. If a high-speed AVCB option is available, the Contractor shall describe in detail, the specifications, components, features and functionality of the Contractor's high-speed AVCB tabulator system. If available, also provide details on the process for electronically transmitting unofficial election night totals from the high-speed AVCB tabulator.	DS450/DS850 The DS450/DS850 provide high-speed digital processing. The tabulators scan and automatically sort ballots, separating them into one of three (3) discrete bins without interrupting scanning. The DS450/DS850 can read ballots in all four orientations. The DS450/DS850 are designed with a series of rollers so ballots that were originally folded may be tabulated at the same rate of speed as flat ballots. The DS450/DS850 use Intelligent Mark Recognition technology to determine what constitutes as a mark for a candidate. The easy-to-use DS450/DS850 central scanner can be configured with Contractor's Electionware Election Management System and used with Contractor's DS200 precinct-level scanners and the ExpressVote, an Americans with Disabilities Act (ADA)-compliant voter assistance device, to create a complete end-to-end election solution. Key features of the DS450/DS850 include the following: <i>SPEED:</i> The DS450/DS850 central scanner/tabulator are some of the fastest scanners in the industry and can handle roughed-up ballots with ease. <i>EASE OF USE:</i> The durable 15-inch color touch screen and user-friendly interface walk you through every step of the process. It is as simple as placing a stack of ballots on the scanner and pressing START. <i>FLEXIBILITY:</i> With three separate sorter bins, you can determine whether you want to set apart specific types of ballots for further review. Let the DS450/DS850 handle separating write-in votes, overvotes, or blank ballots without missing a beat.
1.3.B.1 <i>continued</i>		<i>ACCURACY:</i> Contractor's patented Intelligent Mark Recognition (IMR™) and Positive Target Recognition & Alignment Compensation (PTRAC™) technology ensure ballots are read accurately and consistently, protecting voter intent and eliminating manual adjudication time. PTRAC™ corrects for variations in ballot alignment and printing, allowing the digital scanners to zero in on the marking area. IMR™ digitally subtracts the outline of the voting target to read only the voter's mark. Our competitors' optical scanners require you to set an arbitrary pixel threshold to determine what counts as a mark. The DS450/DS850 do the work for you. To determine which marks were intentional, sophisticated algorithms analyze not only the mark's darkness (pixel density) but also its directionality. Unlike other scanners, the DS450/DS850 are not fooled by erasures or other stray marks, and is not confused by lighter or thinner marks that would be missed by a simple threshold. IMR™ means faster results for you and assurance for voters that their votes were counted as they intended. <i>SECURITY:</i> Safeguard your election data with the DS450's/DS850's system integrity, electronic audits, and digital signatures. • Strong physical access controls: locks and seals secure data ports and critical hardware components • Role-based access codes allow varied levels of operator and administrator access • Full logging creates a complete audit record you can print or view electronically

1.3.B.1
continued

RESULTS TRANSMISSION:

Results can be transmitted from the DS450/DS850 AVCBs using the following methods:

a. Manual Transfer: The DS450/DS850 writes encrypted, digitally signed data to a USB memory device. The memory device is manually transferred to the PC with Election Reporting Manager (ERM) via the USB memory device.

b. Local Network Transfer: The DS450/DS850 transmit data via a closed, secure local area network using Secure File Transfer Protocol (SFTP) to a central reporting PC with ERM. All vote data is digitally signed and encrypted with Federal Information Processing Standards-certified (FIPS) security functions.

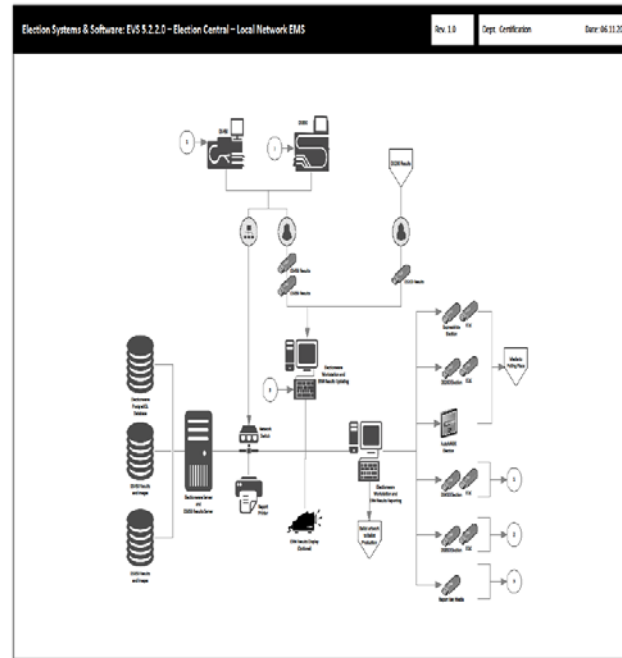
In lieu of constructing a full network, the State may exercise the following options for producing results in an AVCB: ES&S' high speed AV scanner comes equipped with two (2) printers – a log printer and a results printer. Therefore, the AVCB can produce Precinct and/or various totals (in addition to Grand Totals) reports using the reports printer. ES&S' high speed scanner saves results to a USB memory device, which can be used to export results into ERM. The system uses a closed network, which has no internet connectivity. The system uses a router that connects only components of the EMS system together.

Sample network configurations, along with diagrams and associated costs, are included in Schedule C, pricing.

For high-speed mass ballot counting and results consolidation, multiple DS450s/DS850s can be connected in this manner to the EMS network via an SFTP Server hosted on the EMS Server. Each DS450/DS850 is given a unique User ID and Password. The SFTP Server is set up so that the DS450/DS850-transmitted data is stored directly into the proper election data folder on the EMS Server. All physical connections to the network are standard, physical, network connections. There are no connections to the Internet or outside data lines.

Multiple DS450/DS850 tabulators can also optionally be networked to a central reporting PC for high-speed mass ballot counting and results consolidation. This local reporting network has no connections to the Internet or outside data lines.

The following diagrams reflect local network transfer configuration and all required components:



1.3.B.1
continued

When transferring data from the AVCB to the EMS and reporting software using either a USB memory device or closed network, the jurisdiction has the option to transmit only the results collection file or may send the results file along with all of the image and vote data files from each individual counted ballot.

1.3.B.2	The State prefers an AVCB high-speed tabulator option that utilizes Commercial Off The Shelf (COTS) equipment. If a high-speed AVCB tabulator is provided under this Contract, the Contractor shall indicate whether COTS options are available and shall provide detail related to the COTS components in the response to this section, and in (Schedule C Pricing), including make/model of COTS equipment.	N	The Contractor has chosen to develop a family of proprietary scanners specifically for the election industry. By doing so, we have complete ownership and control of the intellectual property, the design, and the manufacturing. We do not depend on large COTS vendors that change ownership, product designs, parts, and features based on their overall customer base rather than what is best for elections. Additionally, COTS parts and firmware versions change very frequently, which is difficult to manage and impossible to control. A particular model of scanner may last a few years, but the parts may change every six (6) months. In contrast, ES&S uses industrial components whenever possible, so the exact unit with the same parts can be available for 10-15 years. Additionally, the Contractor has the option to manufacture the unit with a different partner if the partner chooses not to stay in the business or is not able to maintain the quality we demand. Customers who buy a scanner from the Contractor deal with the Contractor, not the manufacturer. The Contractor can and does support their scanners through the entire life of the scanner. This includes new features requested from users. The DS450 AVCB high speed tabulator employs readily available COTS supplies listed in Schedule C, Pricing, along with the following two (2) report printers: • A DELL 2810 series laser printer used to generate scanner level results and configuration reports • A continuous feed OKidata ML420 continuous feed printer used to print a continuous physical audit report <i>(These printers are included in the cost of the DS450 unit.)</i>
1.3.B.3	The Contractor shall indicate whether the high-speed AVCB tabulator system requires or utilizes special software or components that differ, or are in addition to, the requirements for the Contractor's Election Day tabulator system (as outlined in the response to the HARDWARE requirements, Attachment 1.1). Any additional components and/or costs must also be identified in Schedule C Pricing.	Y	The Contractor shall provide the DS450 as their central AVCB tabulator and their DS200 as their Election Day tabulator. The DS200/DS450 use the same software and components. No additional components or costs are applicable. Note that the DS200 may also be used as a central AVCB tabulator.
1.3.B.4	The Contractor must provide detailed information on the maximum number of ballot styles that can be processed by a single high-speed AVCB tabulator. The Contractor provides multiple high-speed equipment options that allow for different-sized jurisdictions with differing volumes of AV ballots, and therefore differing ballot processing speeds.	Y	The DS450 and also the DS850 central scanners/tabulators are capable of reading, recording, and storing results from up to 9,900 precincts and 9,900 ballot styles on a single USB memory device. SPEED The DS850 can scan ballots of multiple sizes and hand folded and roughed-up ballots with ease. For example, the DS850 can scan 14-inch, double-sided ballots at the rate of 300 per minute. Even when you consider the time to load the hopper and unload the finished ballots, the DS850 will scan 10,000 mail-in ballots in an hour. Faster results can mean lower costs due to fewer resources necessary to accomplish the same task.

1.3.B.4
continued

EASE OF USE

The durable 15-inch color touch screen and user-friendly interface guide election workers through every step of the process. It is as simple as placing a stack of ballots on the scanner and pressing the Start button.

FLEXIBILITY

With three separate sorter bins, users can determine whether they want to sort specific types of ballots for further review. The DS850 can separate ballots with write-in votes, over-votes, or blank ballots.

ACCURACY

ES&S' patented Intelligent Mark Recognition (IMR™) and Positive Target Recognition & Alignment Compensation (PTRAC™) technology ensure ballots are read accurately and consistently, protecting voter intent and eliminating manual adjudication time.

PTRAC™ corrects for variations in ballot alignment and printing, allowing the digital scanners to zero in on the marking area. IMR™ digitally subtracts the outline of the voting target to read only the voter's mark. Our competitors' optical scanners require you to set an arbitrary pixel threshold to determine what counts as a mark. To determine which marks were intentional, sophisticated algorithms analyze not only the mark's darkness (pixel density) but also its directionality. Unlike other scanners, the DS850 is not fooled by erasures or other stray marks, and is not confused by lighter or thinner marks that would be missed by a simple threshold.

1.3.B.5 The Contractor must document the speed at which ballots are processed (ballots per minute) and must provide comparative detail of the processing speed of the high-speed AVCB tabulator vs. the processing speed of the Contractor's Election Day tabulator system; including a suggested replacement rate between precinct tabulators and high-speed tabulators (e.g., one high speed tabulator in lieu of X precinct tabulators). Y

The throughput and equivalency comparison will assume that both are being used to centrally count absentee ballots. The throughputs themselves can vary widely depending on the process and procedures used to organize and scan the ballots and the reports that need to be generated. Assuming that ballots are scanned continuously with minimal reports generated, the various scanners can provide the following nominal throughputs for a 19" ballot or ExpressVote card.

Scanner/Tabulator	Throughput (ballots/hour)	Throughput (ballots/minute)
DS850	12,000	200
DS450	3,000	50
DS200	600	10

If the full throughput of either the DS450 is needed, e.g., the State would require one high speed tabulator in lieu of 6 precinct tabulators.

If the full throughput of either the DS850 is needed, e.g., the State would require one high speed tabulator in lieu of 18 precinct tabulators.

1.3.B.6	The Contractor shall provide details related to any available special ballot sorting options available with the high-speed AVCB tabulator system (e.g., ballot processing by precinct, outstacking/separation of write-ins, ambiguous marks and blank ballots that may require specialized handling by election inspectors).	Y	BALLOTS FOR ADJUDICATION The DS450 outputs counted ballots to a high-capacity motorized output bin. Additionally, two (2) configurable outstack bins are available. The jurisdiction is able to program what ballot criteria sorts to a particular outstack bin and in the case of the middle bin, can choose whether sorted ballots are counted or not counted. Ballots can be sorted for overvotes, undervotes (setup for particular contests), blanks, write-ins, invalid ballot, unreadable ballot, or wrong precinct. A typical setting might have all unreadable ballots outstacked to the top bin, all ballots that require review for voter intent go to the middle bin, and all ballots that don't meet a sort criteria and are counted would go to the bottom bin. The DS450 firmware reports why each ballot is outstacked either on screen or on a printed report, which can be programmed to print automatically each time a batch is saved. The DS450 scanners can also operate as a ballot sorter and can be programmed to separate ballots from a particular precinct to allow for quick, easy recounts. They can also be setup to count all ballots from a particular precinct and outstack ballots from other precincts to ensure like ballots are grouped together. Finally, ballot data can be exported to the Electionware EMS and filters applied to perform reviews like write-in capture.

ECTION SYSTEMS & SOFTWARE, LLC CONTRACT No. 071B7700120**Exhibit 2, Attachment 1.4 Voting System****ACCESSIBLE VOTING SYSTEM COMPONENT****Technical Requirements**

Category / Requirement #	Requirement	Contractor Complies (Y/N)	Contractor Complies - with Modifications	Contractor's Response
Accessible Voting System Requirements (General)				
1.4.A.1	All requirements listed in Attachment 1.1 (HARDWARE requirements) also apply to hardware used with the Contractor's accessible voting system components for use by individuals with disabilities. The following requirements in this section are additional system requirements related to the Contractor's ACCESSIBLE VOTING COMPONENT.	Y		Contractor values the feedback and input of the disabled community. The design of our Universal Voting Solution, the ExpressVote, is a prime example of a product that successfully incorporated suggestions and feedback from voters with disabilities and those who represent those communities of voters. Since the initial Federal certification of the ExpressVote, we have continued to engage in multiple avenues and venues that afford us an opportunity to seek feedback for future development enhancements of our ExpressVote. A few examples to date include feedback forum sessions with the University of Baltimore's ADA design experts, feedback forums with Council of Independent Living Center groups in Minnesota, participation in local State ADA conferences, annual participation in National ADA conferences, as well as key interactions and one on one sessions with individual leaders in the country on the subject of voting system design for voters with all forms of disabilities. Contractor looks forward to involving Michigan ADA groups in this same manner and will provide Michigan with ongoing updates detailing their work and feedback from these groups, along with planned system changes, on (at a minimum) an annual basis.
1.4.A.2	The Contractor shall provide a complete description of the the Contractor's accessible voting system, including all components, make/model, detailed functionality and specific abilities of the system to allow disabled voters to vote independently, privately, and in the same manner as other voters in a way meets all other requirements listed in this Contract.	Y		The ES&S ExpressVote Universal Voting System is a leading-edge technology touch screen device that enables voters to vote any ballot style in the jurisdiction using generic unprinted thermal card stock/ballots, saving money for the State of Michigan taxpayers. The ExpressVote combines paper-based voting with touch screen technology to create an innovative breakthrough in voting solutions. Election officials no longer have to guess the number of ballots to print. The inexpensive thermal card stock/ballot can determine the ballot style presented on the touch screen. The ExpressVote system can serve every eligible voter, including those with special needs. The ExpressVote was developed with universal design principles applied to be used by all voters, with or without visual impairments, hearing issues, or need for physical accommodations. As a fully compliant ADA (Americans with Disabilities Act) voting solution, ExpressVote enables each voter to cast his or her ballot independently.

1.4.A.2
continued

KEY FEATURES:

Thermal card stock/ballots — The voter receives a voting session thermal card stock/ballots to begin the process. Election officials can choose from three (3) options:

1. If only one ballot is programmed for the election, a blank card activates the ballot.
2. If the election has multiple ballot styles, a blank card requires a poll worker to select the correct ballot for the voter.
3. If the election has multiple ballot styles, a thermal card stock/ballot with a precinct-specific barcode printed at the top triggers the selection of the correct ballot for the voter. This option would require use of ES&S's ExpressVote Activation Card Printer which can be integrated with Michigan's existing electronic poll book system. Please see Exhibit C, Pricing.

Verifiable paper record — After all selections are made, a human- and machine-readable paper record is produced, including text and an optical scan barcode. All votes are digitally scanned for tabulation on ES&S' DS200/DS450 devices.

Easy to set up and use — The simple startup and poll-closing procedures make the ExpressVote an ideal device for poll workers. The intuitive design offers streamlined simplicity for all voters, poll workers and election staff. The paper card is the thermal card stock/ballot – there is no expensive technology to manage or program. The ExpressVote is small, lightweight at approximately 20 pounds, and easy to carry.

1.4.A.2
continued

Controlled and reduced costs — Traditional ballot printing costs can be reduced significantly by eliminating the need and expense for pre-printed paper ballots. With low operation and maintenance, budgeting for recurring expenses becomes easy with the ExpressVote. The ExpressVote system reduces waste as it does not use pre-printed ballots, ink, toner, or paper rolls and, as a result, consumes 70 percent less paper than traditional ballots.

Innovative design — Complete and total independence is maintained while voters cast their own records. Voters review a summary page and can make changes before casting ballots. The ExpressVote system produces a verifiable paper record for each voter that is digitally scanned for tabulation. ExpressVote neither stores nor tabulates vote counts. The election definition on the USB removable memory device is secured behind a lockable, sealable door.

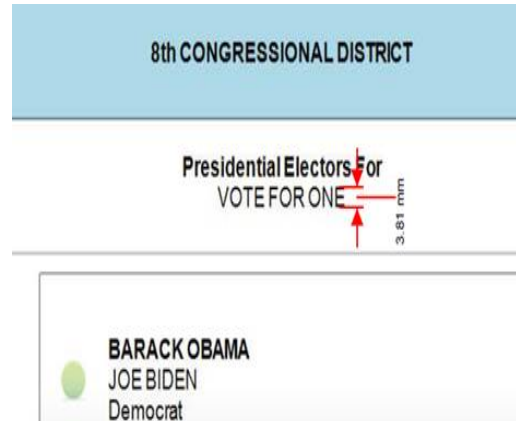
Casting the ballot — After ejecting their marked ballots, voters must manually place ballots in the DS200 for scanning and tabulating.
The ExpressVote allows blind, low-vision, and limited-dexterity voters to privately listen to instructions and selections at a volume, tone, and speed that will meet their unique needs. They cast their votes unassisted, thereby maintaining their privacy and anonymity.

1.4.A.2 <i>continued</i>			ADDITIONAL FEATURES INCLUDE: Multiple user interfaces including touch screen, Braille-embossed keypad, sip-and-puff tube, and foot pedal or other two-way switch. Audio voting session via text-to-speech or .wav files Ability for voter to select speed, tone, and volume High-visibility on-screen ballots. Voter-selected font size and contrast settings. Verifiable vote record — Allows jurisdictions to maintain hard copies of vote records marked on ADA-compliant systems by: Marking paper record used for tabulating by the DS200 digital precinct scanner or DS450, enabling independent verification of paper ballots. Providing a more densely populated card (24 columns) versus the current conventional ballot with three columns, which saves time, pages, and traditional ballot-printing costs. A single card can fit up to 102 ballot selections.
1.4.A.2 <i>continued</i>			The ExpressVote's internal thermal printer eliminates ink and toner expenses. The integrated printer: • Generates vote records on 4½-inch x 11-, 14-, 17-, and 19-inch thermal card stock/ballot. • Offers highly reliable thermal-printing technology that eliminates ink and ribbon costs, maintenance, and downtime. • Summary page verification process — Reduces the risk of under-voting and incorrectly marked selections and prevents over-voting. This innovative process presents voters with the option to review choices, modify/change selections, or fill in any skipped races before printing the record. • Multilingual capability — Ensures all citizens in a diverse population can exercise their privilege to vote in their native languages: • Multiple languages can be stored on a single machine for use with both audio and visual voting sessions. Audit logs provide operational information and time/date stamps for printed vote records.
1.4.A.3	The Contractor must provide a full listing of supplies utilized by the proposed accessible voting component, including paper, ink cartridges, batteries, etc. The Contractor shall indicate whether such supplies are available via commercial off-the-shelf (COTS) sources; prices for supplies must be included and listed in Schedule C, Pricing.	Y	In Schedule C, Pricing , please see the full listing of supplies utilized by the Contractor's accessible voting component. The list of supplies in Schedule C, Pricing indicates whether the supplies are COTS and includes prices.
1.4.A.4	The accessible voting system shall be capable of utilizing the maximum size ballot in use with the base voting system.	Y	The ExpressVote is designed to present the voter with the same ballot content as the maximum size ballot in use with the base voting system. Each thermal activation card/ballot is the length of a standard ballot: 11", 14", 17" or 19". The jurisdiction can choose any of these four lengths. For a particular election, the length of the standard ballot and the length of the thermal card must be the same. Typically, the length is chosen to best accommodate the fit of the content on a standard ballot and the activation card always must use the same length chosen for the standard ballot. The ability to use an activation card length different than the standard ballot length is under consideration for a future release.

1.4.A.5	The accessible voting system component shall be easily portable and be transportable without damage to internal circuitry. The Contractor shall provide height and weight specifications of all accessible components, as well as any features related to portability and ease of transport.	Y	The ExpressVote was designed to be a portable, tabletop type of device in order to allow for ease of transportation to/from polling place. Unit size - in use 19" W x 5.5" D x 17" H/Unit Size - stowed for transport or storage: 22.5" W x 17" D x 11" H/Unit Weight: approximately 20 lbs. The ExpressVote comes with a soft-sided, padded carrying case with a shoulder strap for ease of transport. These features are to protect against shock damage to internal circuitry during transport.
1.4.A.6	The accessible voting system shall allow the option of programming multiple precincts or single precincts on each device. The Contractor shall indicate the maximum number of precincts/split precincts on a single unit.	Y	The ExpressVote is capable of being programmed for a single precinct, multiple precincts, or all precincts in the election. The unit also is capable of handling up to 9,900 different ballot styles or precincts.
1.4.A.7	The Contractor shall document the size, weight, volume and any other pertinent size and dimension information related to the Contractor's accessible voting system and any/all related components.	Y	Unit size - in use: 19" W x 5.5" D x 17" H/Unit Size - stowed for transport or storage: 22.5" W x 17" D x 11" H/ Unit Weight: approximately 20 lbs. The ExpressVote has a 15" color LCD touch screen display. The ExpressVote comes with a padded, soft-sided carrying case for ease of transport. Carrying case dimensions (WxDxH): 22.5"x17"x11".
1.4.A.8	The Contractor's accessible voting system shall accommodate visually impaired voters by presenting the ballot to a voter in an audio format. The Contractor shall describe the procedures for constructing an audio version of the ballot, whether it is through text to speech synthesis, voice recording, or any other technology utilized by the voting system.	Y	The ExpressVote provides voters with an audio ballot option. An audio voting session can be created using text-to-speech or .wav files. The audio ballot is created using the Electionware EMS Design module. The audio ballot is created in .wav format. The audio production process involves the recording of all of the audio files for the current election. This process can be completed in either a professional studio environment or in the average office environment using a dedicated audio production computer, digital USB microphone, and audio editing software. It is recommended that the audio files be recorded in one long stream. After recording is complete, the audio files are broken down into individual files and named accordingly, and then processed through audio editing software. After editing is complete, the audio recordings can be imported into Electionware. Text-to-speech and automated test deck are the software modules offered within the Electionware Toolbox. ES&S has included English, Spanish, and one additional language (ie. Bengali) in our EMS PYO (Program Your Own) software package. Should a jurisdiction select EMS Accumulation Software Only, the text-to-speech software can be licensed separately.
1.4.A.9	The Contractor's accessible voting system shall accommodate visually impaired voters by magnifying the ballot. The Contractor shall detail the available functions for magnification of the ballot, including the various options and process for increasing/decreasing the size of the ballot display.	Y	The type size for the millimeters specified relating to the size on the screen is as follows: The default Title text is 6 millimeters in height. The default text size is 4 millimeters in height. There is a single "zoomed" setting that increases this same text to approximately 24 pt font or 6.08mm as shown in the following screen graphic. The voter can use the zoom feature by simply pressing the zoom button found at the lower edge of the ExpressVote screen to enlarge or reduce the size of the screen display.  The ExpressVote's zoom feature meets VVSG text size requirements to magnify the font size.

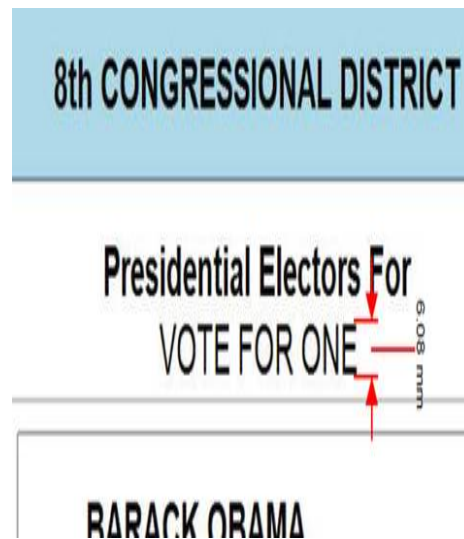
1.4.A.9 Continued

The default setting for title and context text is approximately a 16pt font or 3.81 mm per the following screen graphic:



1.4.A.9 Continued

There is a single "zoomed" setting that increases this same text to approximately 24 pt font or 6.08mm as shown in the following screen graphic:



1.4.A.10

The Contractor's accessible voting system shall allow for high-contrast visual display.

Y

The ExpressVote provides voters the ability to change the contrast of the touch screen by selecting the contrast button.

1.4.A.11	The Contractor's accessible component must support the same alternative (non-English) languages as the base voting system (at a minimum, Spanish and Bengali).	Y	If applicable, after inserting their thermal card stock/ballot into the ExpressVote, a language screen will appear, which allows the voter to select the language they wish to view and/or hear for the audio ballot. The ExpressVote can provide recorded audio playback of each ballot style in the selected language. The audio files can be created by recording human voice or automatically generated using Text-to-Speech (TTS) features in ES&S' Electionware Toolbox. The Language selection screen only appears if the election contains multiple languages. When multiple languages are available, the default choice is English. The ExpressVote supports the same alternative languages as the base voting system. ES&S has supported the Bengali language for other ES&S Voting System (EVS) customers as recently as 2014, and added Bengali to the list of supported languages in EVS 5.2.2.0, the Contractor's primary voting system solution for Michigan.
1.4.A.12	The Contractor's accessible voting system shall accommodate voters unable to physically indicate a voting choice by using a pointer, sip/puff device, A/B switch, braille, audio, etc.	Y	The ExpressVote allows blind, low-vision, and limited-dexterity voters to privately listen to instructions and selections at a low volume, tone, and speed that will meet their unique needs. They cast their votes unassisted, thereby maintaining their privacy and anonymity. Features included in our pricing are: Multiple user interfaces that include touch screen, Braille-embossed keypad, audio voting session via text-to-speech or .wav files, high-visibility on-screen ballots, and voter-selected font size and contrast settings. Other available features not included in our pricing, and normally brought by the voter, that the ExpressVote can accommodate are: sip-and-puff tube and foot pedal or other two-way switch.
1.4.A.13	The accessible voting system shall provide audio and visual instruction on the use of the system.	Y	The ExpressVote provides both visual prompts and instructions on the screen and corresponding audio instructions to voters.
1.4.A.14	The accessible voting system shall present the ballot to the voter in a clear and unambiguous manner.	Y	The ExpressVote combines paper voting with a large, easy-to-read touch screen, providing a clear and unambiguous ballot.
1.4.A.15	The accessible voting system shall provide a method for recording write-in votes.	Y	Candidates are either on the ballot or can be written in by the voter by typing any name after selecting a write-in position in a contest.
1.4.A.16	The accessible voting system shall prohibit crossover votes on a partisan primary ballot.	Y	The ExpressVote prohibits crossover voting. Once the voter makes a choice in the party selection contest – or makes their first choice in a partisan contest – only that party's contests are displayed to the voter for the remainder of the voting session. This prevents the voter from making a crossover selection. In an open primary, the first contest that is displayed by the ExpressVote is a party selection contest. Once a party selection is made, only that party's contests are displayed to the voter for the remainder of the voting session. If the voter bypasses the party selection contest without making a choice, partisan contests are displayed in the same order as they appear on the paper ballot. Once the voter makes a choice in any partisan contest, only that party's contests are displayed to the voter for the remainder of the voting session. Both the AutoMARK and ExpressVote remove the Straight Party selection if a voter selects a candidate from an alternate party. This only affects the straight party selection, not any other contest, and the voter receives a warning identifying this.
1.4.A.17	The accessible voting system shall prohibit over votes before a final vote is cast.	Y	The ExpressVote system will not allow a contest to be overvoted. Any attempt to overvote a multiple vote for a contest will prevent the selection and generate a warning prompting the voter to remove a selection prior to selecting another choice. In a vote-for-one contest, depending on the election definition setting, a new selection will either automatically remove the previous selection or behave the same as the multiple vote-for contest.

1.4.A.18	The accessible voting system shall allow option to skip races and/or sections (partisan/nonpartisan) of the ballot.	Y	Voters must view each race before they are allowed to skip a race and proceed to the next race.
1.4.A.19	The accessible voting system shall allow option to "skip to the end" to cast a vote at any point.	N	The voter must view each contest before going to the summary review and casting the ballot.
1.4.A.20	The accessible voting system shall issue a warning of undervotes during the final review of votes screen only (not on a contest-by-contest basis); and shall allow a voter to choose to cast the ballot if undervoted races are included.	Y	The ExpressVote offers a Summary Page verification screen that summarizes the voter's selections in each contest or question. For each occurrence where the voter did not make the maximum number of choices in an individual contest (i.e., undervoted the contest) the Summary Page will display two warning messages -- "Contest Not Fully Voted" and for each undervote "No Selection Made." Undervoted contests also are accompanied by an orange exclamation point, whereas fully voted contests display a green checkmark. Finally, the phrases "Contest Not Fully Voted" and "No Selection Made" can be customized by the user when creating the election in Electionware. The voter may revisit races to cast their maximum number of votes or choose to print their voted ballot as is.
1.4.A.21	Once the ballot is cast, the accessible voting system shall confirm to the voter that the action has occurred and that the voter's process of voting is complete.	Y	The ExpressVote works in conjunction with the DS200 tabulator. Upon completing a voting session on the ExpressVote, the thermal card stock/ballot is printed. The voter then inserts the card into the DS200 for tabulation. A confirmation screen provides clear feedback to the voter that their ballot has been successfully tabulated.
1.4.A.22	Votes cast using the accessible voting system shall be accumulated with all other votes and reported as a single total within each precinct.	Y	Ballot choices marked with the ExpressVote are tabulated with an ES&S tabulator along with all other votes and reported as a single total within each precinct.
1.4.A.23	The accessible voting system shall ensure that each voter's ballot is secret and the voter cannot be identified by image, code or other methods.	Y	Because voters vote independently and cast their votes unassisted, privacy and anonymity are maintained. When properly set up at the polling place to protect voter privacy and the activation card is inserted within the ExpressVote, all ballot information and input controls are visible only to the voter during the voting session. The ExpressVote also allows voters using the audio ballot to turn off the screen so it is not visible to others. Once the ballot is marked and printed, voters should place the ballot in a secrecy sleeve prior to tabulation on an ES&S tabulator. When the ballot is cast, there is no link between the ballot or ballot image to a specific voter that would compromise the voter's secrecy. □

1.4.A.24	The accessible voting system shall provide a method by which a voter can verify his/her choices prior to the ballot being marked or vote cast, either by print or audio and visual display.	Y	At the end of a voting session, ExpressVote provides a ballot summary using the same language and interface selected during voting to allow the voter to verify the selections made before they are printed on a paper ballot. Additionally, the ExpressVote has an optional post-print verification that allows the voter to visually validate the data printed on the marked ballot or card before it is cast. After completing making selections, the voter is presented with a summary screen of those selections. To return to a previous race or contest, the voter: 1. Touches the contest listing on the summary screen. The same screen used to vote the race appears. 2. The voter can modify selections, if desired, and then touch Next. 3. The voter is returned to the summary screen.

**Accessible
System - Use of
Touch-Screen
Interface**

1.4.B.1	The Contractor's accessible voting system shall utilize a touch-screen interface for voters to use in voting a ballot.	Y	The ExpressVote features a touch screen interface with various colors and accessibility-enhancing effects that prompt and guide the voter. EVS 5.2.2.0 will support up to 16 candidates in two (2) columns. The use of either one (1) or two (2) columns will be configurable.
1.4.B.2	The Contractor shall indicate how the accessible voting system integrates with the precinct tabulator, including whether it is physically tethered to the precinct tabulator; if tethered, it should have a minimum of a 15' connection to the OS tabulator.	Y	The ExpressVote is a fully integrated component of the Contractor's system. ExpressVote summary cards are tabulated on the DS200 and DS450 scanners. The ExpressVote is not physically tethered to the precinct tabulator.

**Accessible
System - Use of
Paper Ballot
(possible
scenarios)**

1.4.C.1	The Contractor shall indicate whether the accessible voting system utilizes a paper ballot and shall indicate whether the proposed accessible voting system follows any or all of the four scenarios listed in this section (scenarios a-d listed below). For each applicable scenario, the Contractor shall provide details on how the ballot is marked and tabulated by the accessible voting system, including a detailed description of the system functionality, steps in the ballot marking and voting process, and all other pertinent points related to the voting and processing of ballots under each applicable scenario.	Y	The Contractor's accessible voting system utilizes a paper ballot.

1.4.C.1.a	Scenario a: The Contractor's accessible voting system utilizes the same paper ballot as the precinct ballot.	N	The ExpressVote does not utilize the same paper ballot as the precinct paper ballot, but rather utilizes a smaller, less expensive, thermal card stock/ballot that is inserted by either the voter or poll worker, which activates the voting session. The voted thermal card stock/ballot is printed and then inserted into the DS200 for tabulation.
	a.i. (scenario a.) - The Contractor shall indicate whether the voter must physically insert the marked ballot into the tabulator, or if there is an automated function that does not require the voter to physically handle the ballot.	Y	The voter must insert the printed paper record into the DS200 for the ballot to be cast.
	a.ii. (scenario a.): the accessible system shall allow for omni-directional feed of the ballot.	Y	The ExpressVote uses durable thermal card stock to record voters' selections. The top right corner of the card is cut to serve as a visual indicator, or tactile indicator for voters with impaired vision, to indicate the direction and orientation when inserting into the ExpressVote. If the voter inserts the thermal card stock/ballot in the wrong orientation, the thermal card stock/ballot is returned for proper insertion. The DS200 does allow for omni-directional feed of the printed paper record produced by the ExpressVote.
	a.iii. (scenario a): The Contractor shall indicate whether manual adjustment is required to accommodate multiple ballot lengths.	Y	No manual adjustments are needed. The length of the ballot is determined by the election definition.
1.4.C.1.b	Scenario b: Accessible voting system prints an entire (marked) optical scan ballot to be tabulated.	Y	When the voter has reviewed and modified vote choices as desired, the ExpressVote prints those choices on a thermal card stock/ballot. The ExpressVote produces thermal card stock/ballots for tabulation in the DS200/ DS450.
	b.i. (scenario b.): OPTIONAL: The Contractor shall indicate whether the accessible voting system includes a self-contained printer (requiring no additional system equipment).	Y	The ExpressVote includes a self-contained, internally integrated thermal printer, requiring no additional external printer or other device. Thermal technology eliminates all consumables and does not require ink, toner, or cartridges to be replaced, reducing and eliminating expenses.

	b.ii. (scenario b.): For accessible voting systems that print a full marked paper ballot - the Contractor shall provide data, system checks and other features that clearly validate and demonstrate that printed votes are an exact (100%) match to original voter input.	Y	If the voted thermal card stock/ballot is reinserted into the ExpressVote, the device reads the data on the thermal card stock/ballot and generates a summary screen, enabling voters to ensure votes are an exact match to original voter input.
1.4.C.1.c	Scenario c: ~~Proposed~~ -accessible voting system creates a modified summary ballot (e.g., listing only votes cast and a differently sized and laid-out ballot than the precinct ballot).	Y	The ballot layout that appears on the ExpressVote screens is created at the same time as the standard paper ballot. The ExpressVote prints a modified summary of the ballot that includes ALL ballot contests and voter candidate selections, including write-ins and undervotes. The printed paper record is 4 ¼ inches wide with a length of 11, 14, 17 or 19 inches, matching the precinct ballot length. Once a voter has reviewed and approved their vote selections, a thermal card stock/ballot is printed, which contains a list of the votes cast with all contests in the same order as the precinct ballot.
	c.i. (scenario c): the tabulator shall have the ability to scan and tabulate votes from the modified ballot and combine vote totals into the overall vote totals in the precinct.	Y	The ExpressVote is a marking device only. The DS200/DS450 tabulator scans and tabulates the printed paper ballot from the ExpressVote and combines vote totals from this card into the overall precinct totals.
Reliability Requirements			
1.4.D.1	The accessible voting system shall permit diagnostic testing of all major components, including self-diagnostics (automatically generated) and error reports. The Contractor shall provide details of diagnostic testing available and related reports.	Y	The ExpressVote executes automated diagnostics on system startup. ExpressVote records errors and major events and tags these incidents with the date and time the incident occurred based on ExpressVote's real-time clock to time-and-date stamp settings. Audit logs are constantly updated in the system background and saved to the inserted ES&S USB memory device in a circular buffer. Stored audit records are not affected by system power interruptions. Poll workers can view audit logs on the unit's touch screen or printed sheet. Machine level audit reports may be generated at any time from each of the system's administrative menus. This information provides for immediate identification and resolution of error conditions. ExpressVote displays and reports critical and non-critical status message in real-time and in the voter's selected language or in English along with the international warning symbol depending on the nature of the error at the time of occurrence. In addition, each log entry is numbered and includes event details to facilitate recognition, segregation, and retention. ExpressVote does not tabulate results or generates output reports, so the printing of audit logs does not interfere. The following reports are produced by the ExpressVote: 1. System Readiness Report (Descriptive list of system settings that you can use to verify that the ExpressVote unit is ready to begin processing. Shows hardware configuration, media storage capability, firmware version, and election status. 2. Status Messages (critical and non-critical messages)

1.4.D.2	Audit log requirements for the accessible voting system are the same as those listed for base system EMS; for additional components specific to accessible voting component, audit capabilities shall include identification of program and version being run; identification of the election file being used; record of all options entered by the operator (election official); number of voters by precinct and ballot style who have used the system.	Y	The number of voters by precinct and ballot style is generated by the DS200 and can be printed automatically or on-demand using the integrated report printer. A system and operational log of audit events is available from each machine. The EMS (Electionware) also provides reporting of the machine configuration. Records of voting are all tracked by the tabulator at the time of scanning.
1.4.D.3	For accessible voting systems utilizing a touch screen interface, the Contractor shall provide details specifying methods used to calibrate and maintain calibration at acceptable levels.	Y	ES&S recommends that the touch screen be calibrated before each election. The option to calibrate the touch screen appears when the machine is powered on and begins the boot up process. Screen Calibration can also be accessed from the Main Menu and step-by-step directions are listed on-screen as follows: 1. On the Touch Screen Calibration screen, press Start. 2. A crosshair target will appear in three successive locations on the screen. 3. Press the center of each target as it appears. 4. If the calibration was successful, press Exit. If the calibration failed, press Redo and repeat the calibration process. If the touch screen is calibrated incorrectly and cannot be used to select the calibrate option, the calibration procedure can be initiated during the machine power up by simply tapping the screen.
1.4.D.4	The accessible voting system and all related components shall be capable of withstanding transport conditions that may include extremely bumpy roads, exposure to extreme heat, cold, humidity and dust without incurring damage during transportation or becoming inoperable as a result of such transport.	Y	The ExpressVote device was designed for easy transportation to/from storage and vote centers and can withstand typical, real-world election transport conditions without damage or loss of calibration. The device comes with a durable, padded, soft-sided carrying case with a shoulder strap. Durability of the machine has passed all environmental and physical 'drop' tests required by the federal standards.
1.4.D.5	The accessible voting system and all related components shall be capable of withstanding frequent loading and unloading, stacking and unstacking, assembling, disassembling, reassembling, and other routing handling in the course of normal storage and operation.	Y	The ExpressVote device was designed for easy transportation to/from storage and vote centers. The device comes with a durable, padded, soft-sided carrying case with a shoulder strap.

1.4.D.6	OPTIONAL REQUIREMENT: The Contractor shall document and explain any available special features of the accessible voting system that demonstrates water resistance features.	N	The ExpressVote does not have water resistant features.
1.4.D.7	OPTIONAL REQUIREMENT: The Contractor shall document and explain any available storage-friendly options for the accessible voting system components.	Y	The lightweight, compact design of the ExpressVote makes it easier to transport and requires minimal storage space in comparison to other accessible voting systems. These units can be easily stacked for storage purposes.
1.4.D.8	If applicable - The Contractor shall indicate whether the accessible voting system components utilize a backup battery; if so, the backup battery must meet the same requirements as those listed for the tabulator backup batter included in Attachment 1.1 HARDWARE requirements .	Y	If external power is lost, the ExpressVote seamlessly reverts to a backup battery that provides sufficient capacity to allow normal operation for at least four (4) hours. The internal battery backup has been thoroughly tested to meet and exceed the Voluntary Voting System Guidelines (VVSG) requirement of a minimum of two (2) hours battery operation in case of power loss. Additionally, the battery recharges anytime the unit is plugged in, whether the unit is powered up or not.
1.4.D.9	If a table or other type of base is utilized, the Contractor-must describe the design, shape and use of the table/base, as well as durability features of the table/base.	Y	The ExpressVote is designed so that standard tables, existing voting booths, existing AutoMARK tables, or countertops, etc., can be used as a table/base during operation. The design and shape are best shown in the product pictures/brochures. With the exception of a countertop, the recommended options are designed and built for easy transportation to and from the poll site, simple set-up and take-down without the use of tools or special technical skills.
			
1.4.D.10	If a privacy screen is utilized, proposals must describe the design, shape and use of the privacy screen, as well as durability features of the privacy screen.	Y	The ExpressVote privacy screen is specifically designed to provide maximum privacy and easy access by voters. It is made of heavy corrugated plastic with interlocking tab construction, providing long lasting strength and durability when deploying, or folding and for storage. The AutoMARK tables currently owned by the jurisdictions can be used for the ExpressVote with the addition of the privacy screen designed specifically for this ADA unit. The privacy screen is included in the Contractor's solution at no additional cost. If the privacy screen is not used, a blind voter using the ExpressVote always has the option to turn off the display using only audio eliminating the possibility of others seeing the voters' selections. Additionally, any voter can utilize this feature to protect their privacy when seeking assistance from a poll worker. The ExpressVote can be setup and positioned so the display screen is viewable to only that voter eliminating the need for a privacy screen altogether.



Michigan QVF Export File Structure, Code Structure and Standard Precinct Results File Import Structure

Version 2.0

Updated: 3/25/2015

Section 1 - Export File Structure (GEMS Standard Import Format 1.5) - For import from QVF into Vendor EMS products

RecordType 0

RecordType (int), MagicString (String), MajorNumber (int), MinorNumber (int), SortBy (int)

Where:

RecordType is used to identify the record and is 0 for the Election Header

MagicString "GEMS Import Data"

MajorNumber 1

MinorNumber 3

SortBy 0

Sample data

0,"GEMS Import Data",1,3,0

RecordType 1

RecordType (int), ElectionTitle (String), ElectionData (String)

Where:

RecordType is used to identify the record and is 1 for the Election record

ElectionTitle is the title of the election that is to be printed on reports, maximum 254 characters.

ElectionDate is the date of the election in the format "yyyy/mm/dd"

Sample data

1,"11/04/2008 - STATE GENERAL","2008/11/04"

RecordType 2

RecordType (Int), ParentId (String/Int), DistrictId (String/Int), DistrictLabel (String), ReportDistrict (int), Foreign_id (string)

Where:

RecordType is used to identify the record and is 2 for the District records.

ParentId identifies the parent of the district if one exists. If no parent exists (i.e. is a district category) then this value is -1. It corresponds to the **DistrictId** of the other District record.

DistrictId is the unique (key) identifier for the district, maximum 254 characters.

DistrictLabel is the label for the district that is used on reports. The label should contain enough text to distinguish it from other districts with similar names, maximum 254 characters.

Sample data

2,-1,5,"Federal"
 2,-1,10,"Congress"
 2,-1,15,"State"
 2,-1,20,"State House"
 2,-1,25,"County"
 2,-1,30,"County Commissioner"
 2,30,35,"County Comm01"
 2,30,40,"County Comm02"
 2,30,45,"County Comm03"
 2,30,50,"County Comm04"
 2,30,55,"County Comm05"
 2,30,60,"County Comm06"
 2,30,65,"County Comm07"
 2,-1,70,"Township"
 2,70,75,"Aetna Township"
 2,70,80,"Bloomfield Township"
 2,70,85,"Butterfield Township"
 2,70,90,"Caldwell Township"
 2,70,95,"Clam Union Township"
 2,70,100,"Enterprise Township"
 2,70,105,"Forest Township"
 2,70,110,"Holland Township"
 2,70,115,"Lake Township"
 2,70,120,"Norwich Township"
 2,70,125,"Pioneer Township"
 2,70,130,"Reeder Township"
 2,70,135,"Richland Township"
 2,70,140,"Riverside Township"
 2,70,145,"West Branch Township"
 2,-1,150,"Supreme Court"
 2,-1,155,"Court Of Appeals"
 2,-1,160,"Circuit Court"
 2,-1,165,"District Court"

RecordType 3

RecordType (int), DepotId (int), VCenterId (String/Int), VoteCenterLabel (string)

Where:

RecordType is used to identify the record and is 3 for Vote Center records.

DepotId is an identifier for the depot or region the voter center resides in. This may be 0 for the default region, maximum 254 characters.

VCenterId is the unique (key) identifier for the vote center, maximum 254 characters.

VoteCenterLabel is the label for the vote center that is used on reports, maximum 254 characters.

Sample data

3,0,5,"Aetna Township PCT 00001"
 3,0,10,"Bloomfield Township PCT 00001"
 3,0,15,"Butterfield Township PCT 00001"
 3,0,20,"Caldwell Township PCT 00001"
 3,0,25,"City of Lake City PCT 00001"
 3,0,30,"City of McBain PCT 00001"
 3,0,35,"Clam Union Township PCT 00001"
 3,0,40,"Enterprise Township PCT 00001"
 3,0,45,"Forest Township PCT 00001"
 3,0,50,"Holland Township PCT 00001"
 3,0,55,"Lake Township PCT 00001"
 3,0,60,"Norwich Township PCT 00001"
 3,0,65,"Pioneer Township PCT 00001"
 3,0,70,"Reeder Township PCT 00001"
 3,0,75,"Richland Township PCT 00001"
 3,0,80,"Riverside Township PCT 00001"
 3,0,85,"West Branch Township PCT 00001"

RecordType 4

RecordType (int), VCenterId (String/Int), ReportunitId (String/Int), BaseunitId (String/Int),
 ReportunitLabel (string), Reg.Voters (int), BaseunitLabel (string), PrecinctType (int),
 SerialNumber(int), BallotGroupNumber(int), BallotPrintGroupNumber(int)

Where:

RecordType is used to identify the record and is 4 for the Vote Center/Reportunit/Baseunit records.

VCenterId identifies vote center identifier as defined in the Vote Center record. This field acts as a reference Id.

ReportunitId is the unique (key) identifier for the reportunit (precinct), maximum 254 characters.

BaseunitId is the unique (key) identifier for the baseunit (precinct portion), maximum 254 characters.

ReportunitLabel is the label for the reportunit, maximum 254 characters.

RegVoters is the total number of registered voters for the baseunit.

BaseunitLabel is the label for the baseunit, maximum 254 characters.

Sample data

4,5,"WP-57-00520-00001",1,"Aetna Township, Precinct 1",337,"Aetna Township, Precinct 1"
 4,10,"WP-57-09080-00001",2,"Bloomfield Township, Precinct 1",392,"Bloomfield Township, Precinct 1"
 4,15,"WP-57-12200-00001",3,"Butterfield Township, Precinct 1",379,"Butterfield Township, Precinct 1"
 4,20,"WP-57-12440-00001",4,"Caldwell Township, Precinct 1",948,"Caldwell Township, Precinct 1"
 4,25,"WP-57-44480-00001",5,"City of Lake City, Precinct 1",621,"City of Lake City, Precinct 1"
 4,30,"WP-57-49980-00001",6,"City of McBain, Precinct 1",423,"City of McBain, Precinct 1"
 4,35,"WP-57-15900-00001",7,"Clam Union Township, Precinct 1",662,"Clam Union Township, Precinct 1"
 4,40,"WP-57-26200-00001",8,"Enterprise Township, Precinct 1",145,"Enterprise Township, Precinct 1"
 4,45,"WP-57-29440-00001",9,"Forest Township, Precinct 1",859,"Forest Township, Precinct 1"
 4,50,"WP-57-38620-00001",10,"Holland Township, Precinct 1",171,"Holland Township, Precinct 1"
 4,55,"WP-57-44380-00001",11,"Lake Township, Precinct 1",466,"Lake Township, Precinct 1 A"
 4,55,"WP-57-44380-00001",12,"Lake Township, Precinct 1",1715,"Lake Township, Precinct 1 B"
 4,60,"WP-57-59280-00001",13,"Norwich Township, Precinct 1",481,"Norwich Township, Precinct 1"
 4,65,"WP-57-64460-00001",14,"Pioneer Township, Precinct 1",369,"Pioneer Township, Precinct 1"
 4,70,"WP-57-67840-00001",15,"Reeder Township, Precinct 1",794,"Reeder Township, Precinct 1"
 4,75,"WP-57-68280-00001",16,"Richland Township, Precinct 1",1038,"Richland Township, Precinct 1"

4,80,"WP-57-68820-00001",17,"Riverside Township, Precinct 1",698,"Riverside Township, Precinct 1"
4,85,"WP-57-85560-00001",18,"West Branch Township, Precinct 1",342,"West Branch Township, Precinct 1"

RecordType 5

RecordType (String/Int), BaseunitId (String/Int), DistrictId (String/Int)

Where:

RecordType is used to identify the record and is 5 for Baseunit/District records.

BaseunitId identifies the baseunit as defined in the Vote Center/Reportunit/Baseunit record. This field acts as a reference Id.

DistrictId identifies the district as defined in the District record. The district must be one that has no sub-districts, i.e. there is no District record that has the district identifier given as a parent district identifier. This field acts as a reference Id.

Sample data

5,1,5
5,1,10
5,1,15
5,1,20
5,1,25
5,1,65
5,1,75
5,1,150
5,1,155
5,1,160
5,1,165
5,2,5
5,2,10
5,2,15
5,2,20
5,2,25
5,2,40
5,2,80
5,2,150
5,2,155
5,2,160
5,2,165
5,3,5
5,3,10
5,3,15
5,3,20
5,3,25
5,3,65
5,3,85
5,3,150
5,3,155
5,3,160
5,3,165
5,4,5
5,4,10
5,4,15
5,4,20
5,4,25
5,4,35

5,4,90
5,4,150
5,4,155
5,4,160
5,4,165
5,5,5
5,5,10
5,5,15
5,5,20
5,5,25
5,5,45
5,5,150
5,5,155
5,5,160
5,5,165
5,6,5
5,6,10
5,6,15
5,6,20
5,6,25
5,6,55
5,6,150
5,6,155
5,6,160
5,6,165
5,7,5
5,7,10
5,7,15
5,7,20
5,7,25
5,7,65
5,7,95
5,7,150
5,7,155
5,7,160
5,7,165
5,8,5
5,8,10
5,8,15
5,8,20
5,8,25
5,8,40
5,8,100
5,8,150
5,8,155
5,8,160
5,8,165
5,9,5
5,9,10
5,9,15
5,9,20
5,9,25
5,9,45
5,9,105
5,9,150
5,9,155

5,9,160
5,9,165
5,10,5
5,10,10
5,10,15
5,10,20
5,10,25
5,10,65
5,10,110
5,10,150
5,10,155
5,10,160
5,10,165
5,11,5
5,11,10
5,11,15
5,11,20
5,11,25
5,11,35
5,11,115
5,11,150
5,11,155
5,11,160
5,11,165
5,12,5
5,12,10
5,12,15
5,12,20
5,12,25
5,12,50
5,12,115
5,12,150
5,12,155
5,12,160
5,12,165
5,13,5
5,13,10
5,13,15
5,13,20
5,13,25
5,13,40
5,13,120
5,13,150
5,13,155
5,13,160
5,13,165
5,14,5
5,14,10
5,14,15
5,14,20
5,14,25
5,14,40
5,14,125
5,14,150
5,14,155
5,14,160

5,14,165
5,15,5
5,15,10
5,15,15
5,15,20
5,15,25
5,15,60
5,15,130
5,15,150
5,15,155
5,15,160
5,15,165
5,16,5
5,16,10
5,16,15
5,16,20
5,16,25
5,16,55
5,16,135
5,16,150
5,16,155
5,16,160
5,16,165
5,17,5
5,17,10
5,17,15
5,17,20
5,17,25
5,17,60
5,17,140
5,17,150
5,17,155
5,17,160
5,17,165
5,18,5
5,18,10
5,18,15
5,18,20
5,18,25
5,18,40
5,18,145
5,18,150
5,18,155
5,18,160
5,18,165

RecordType 6

RecordType (int), VGroupId (String/Int), Label (string), ShortLabel (string), SortSeq, BallotText (string or rtf)

Where:

RecordType is used to identify the record and is 6 for Voter Group records.

VGroupId is the unique (key) identifier for the voter group (party). VGroupId 0 is reserved for the Non-Partisan party, maximum 254 characters.

Label is the label that is printed on reports, maximum 254 characters

ShortLabel is a three character short label that is displayed on the screen.

SortSeq is the order the voter groups appear on reports, range 1 to 2147483647.

BallotText is the text that is printed on the ballots. This text may be a string enclosed in quotes or RTF data, see comment at beginning of this document regarding ballot text.

Sample data

```
6,1,"REPUBLICAN","REP",1,"Republican"
6,2,"DEMOCRATIC","DEM",2,"Democratic"
6,3,"LIBERTARIAN","LIB",3,"Libertarian"
6,13,"U.S. TAXPAYERS","UST",4,"U.S. Taxpayers"
6,14,"GREEN","GRN",5,"Green"
6,12,"NATURAL LAW","NL",6,"Natural Law"
```

RecordType 7

RecordType (int), RaceId (String/Int), RaceLabel (string), RaceType (int), Rotation (bool), DistrictId (String/Int), VoteFor (int), NumWriteIns (int), BallotText (string or rtf), VGroupId (int), RotationDistrictId (String/Int), EndorseRaceId (String/Int), PreferenceRaceId (String/Int)

Where:

RecordType is used to identify the record and is 7 for Race records.

RaceId is the unique (key) identifier for the race, maximum 254 characters

RaceLabel is the label that is printed on reports, maximum 254 characters

RaceType is the type of race. One of the following values:

- 0 – Candidate
- 1 – Question
- 2 – Endorsement (Straight Party)
- 3 – Preference
- 4 – Recall
- 5 – Recalled
- 6 – Shadowed

Rotation indicates the type of race rotation. One of the following values:

- 0 - No rotation
- 1 - Precinct by sort sequence rotation

DistrictId is the district Id as defined in the District record for that the race runs in. This field acts as a reference Id.

VoteFor is the number to vote for.

NumWriteIns is the number of write-in spaces for the race, is usually 0 for no write-ins or the same value as VoteFor if want write-ins.

BallotText is the text that is printed on the ballots. This text may be a string enclosed in quotes or RTF data; see comment at beginning of this document regarding ballot text, maximum 8195 characters

Sample data with RTF

```
7,"OFFICE-102028948","President/Vice
Pres",0,0,5,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\fs24 ELECTORS OF PRESIDENT AND VICE-PRESIDENT OF THE UNITED
STATES\par
\b0\fs20 Vote for not more than 1\par
},0
7,"OFFICE-102025038","US Senator",0,0,5,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0
Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\fs24 UNITED STATES SENATOR\par
```

\b0\fs20 Vote for not more than 1\par
 },0
 7,"OFFICE-102025042","Rep in Congress
 4",0,0,10,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 REPRESENTATIVE IN CONGRESS\par
 4TH DISTRICT\par
 \b0\fs20 Vote for not more than 1\par
 },0
 7,"OFFICE-102025396","Representative
 103",0,0,20,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 REPRESENTATIVE IN STATE LEGISLATURE\par
 103RD DISTRICT\par
 \b0\fs20 Vote for not more than 1\par
 },0
 7,"OFFICE-102029019","Members State Brd of
 Ed",0,0,15,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 MEMBERS OF THE STATE BOARD OF EDUCATION\par
 \b0\fs20 Vote for not more than 2\par
 },0
 7,"OFFICE-102029020","Regents U of
 Mich",0,0,15,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 REGENTS OF THE UNIVERSITY OF MICHIGAN\par
 \b0\fs20 Vote for not more than 2\par
 },0
 7,"OFFICE-102029021","Trustees Mich
 State",0,0,15,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 TRUSTEES OF MICHIGAN STATE UNIVERSITY\par
 \b0\fs20 Vote for not more than 2\par
 },0
 7,"OFFICE-102029022","Governors Wayne
 State",0,0,15,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 GOVERNORS OF WAYNE STATE UNIVERSITY\par
 \b0\fs20 Vote for not more than 2\par
 },0
 7,"OFFICE-102023801","Missaukee Prosecuting
 Attorney",0,0,25,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 PROSECUTING ATTORNEY\par
 \b0\fs20 Vote for not more than 1\par
 },0
 7,"OFFICE-102023922","Missaukee
 Sheriff",0,0,25,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 SHERIFF\par
 \b0\fs20 Vote for not more than 1\par
 },0
 7,"OFFICE-102024097","Missaukee Clerk-Reg
 Deeds",0,0,25,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 CLERK & REGISTER OF DEEDS\par
 \b0\fs20 Vote for not more than 1\par
 },0
 7,"OFFICE-102024304","Missaukee County
 Treasurer",0,0,25,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 TREASURER\par
 \b0\fs20 Vote for not more than 1\par
 },0
 7,"OFFICE-102024903","Missaukee Co Road
 Comm",0,0,25,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}

\viewkind4\uc1\pard\qc\b\fs24 COUNTY ROAD COMMISSIONER\par
 \b0\fs20 Vote for not more than 1\par
 },0
 7,"OFFICE-102024850","Commissioner
 1",0,0,35,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 COUNTY COMMISSIONER\par
 1ST DISTRICT\par
 \b0\fs20 Vote for not more than 1\par
 },0
 7,"OFFICE-102024851","Commissioner
 2",0,0,40,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 COUNTY COMMISSIONER\par
 2ND DISTRICT\par
 \b0\fs20 Vote for not more than 1\par
 },0
 7,"OFFICE-102029627","Commissioner
 3",0,0,45,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 COUNTY COMMISSIONER\par
 3RD DISTRICT\par
 \b0\fs20 Vote for not more than 1\par
 },0
 7,"OFFICE-102024852","Commissioner
 4",0,0,50,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 COUNTY COMMISSIONER\par
 4TH DISTRICT\par
 \b0\fs20 Vote for not more than 1\par
 },0
 7,"OFFICE-102024853","Commissioner
 5",0,0,55,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 COUNTY COMMISSIONER\par
 5TH DISTRICT\par
 \b0\fs20 Vote for not more than 1\par
 },0
 7,"OFFICE-102024854","Commissioner
 6",0,0,60,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 COUNTY COMMISSIONER\par
 6TH DISTRICT\par
 \b0\fs20 Vote for not more than 1\par
 },0
 7,"OFFICE-102024855","Commissioner
 7",0,0,65,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 COUNTY COMMISSIONER\par
 7TH DISTRICT\par
 \b0\fs20 Vote for not more than 1\par
 },0
 7,"OFFICE-102023875","Aetna Twp
 Supervisor",0,0,75,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 SUPERVISOR\par
 \b0\fs20 Vote for not more than 1\par
 },0
 7,"OFFICE-102023876","Bloomfield Twp
 Supervisor",0,0,80,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qc\b\fs24 SUPERVISOR\par
 \b0\fs20 Vote for not more than 1\par
 },0

7,"OFFICE-102023877","Butterfield Twp
Supervisor",0,0,85,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 SUPERVISOR\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102023878","Caldwell Twp
Supervisor",0,0,90,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 SUPERVISOR\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102023879","Clam Union Twp
Supervisor",0,0,95,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 SUPERVISOR\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102023880","Enterprise Twp
Supervisor",0,0,100,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 SUPERVISOR\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102023881","Forest Twp
Supervisor",0,0,105,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 SUPERVISOR\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102023882","Holland Twp
Supervisor",0,0,110,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 SUPERVISOR\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102029626","Lk Twp
Supervisor",0,0,115,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 SUPERVISOR\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102023883","Norwich Twp
Supervisor",0,0,120,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 SUPERVISOR\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102023884","Pioneer Twp
Supervisor",0,0,125,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 SUPERVISOR\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102023885","Reeder Twp
Supervisor",0,0,130,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 SUPERVISOR\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102023886","Richland Twp
Supervisor",0,0,135,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 SUPERVISOR\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102023887","Riverside Twp
Supervisor",0,0,140,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 SUPERVISOR\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102023888","W Branch Twp
Supervisor",0,0,145,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 SUPERVISOR\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027082","Aetna Twp
Clerk",0,0,75,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 CLERK\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027083","Bloomfield Twp
Clerk",0,0,80,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 CLERK\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027084","Butterfield Twp
Clerk",0,0,85,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 CLERK\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027085","Caldwell Twp
Clerk",0,0,90,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 CLERK\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027086","Clam Union Twp
Clerk",0,0,95,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 CLERK\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027087","Enterprise Twp
Clerk",0,0,100,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 CLERK\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027088","Forest Twp
Clerk",0,0,105,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 CLERK\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027089","Holland Twp
Clerk",0,0,110,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 CLERK\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027090","Lk Twp
Clerk",0,0,115,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 CLERK\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027091","Norwich Twp
Clerk",0,0,120,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 CLERK\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027092","Pioneer Twp
Clerk",0,0,125,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 CLERK\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027093","Reeder Twp
Clerk",0,0,130,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 CLERK\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027094","Richland Twp
Clerk",0,0,135,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 CLERK\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027095","Riverside Twp
Clerk",0,0,140,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 CLERK\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027096","W Branch Twp
Clerk",0,0,145,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 CLERK\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027176","Aetna Twp
Treasurer",0,0,75,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TREASURER\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027177","Bloomfield Twp
Treasurer",0,0,80,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TREASURER\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027178","Butterfield Twp
Treasurer",0,0,85,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TREASURER\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027179","Caldwell Twp
Treasurer",0,0,90,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TREASURER\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027180","Clam Union Twp
Treasurer",0,0,95,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TREASURER\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027181","Enterprise Twp
Treasurer",0,0,100,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TREASURER\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027182","Forest Twp
Treasurer",0,0,105,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TREASURER\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027183","Holland Twp
Treasurer",0,0,110,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TREASURER\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027184","Lk Twp
Treasurer",0,0,115,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TREASURER\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027185","Norwich Twp
Treasurer",0,0,120,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TREASURER\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027186","Pioneer Twp
Treasurer",0,0,125,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TREASURER\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027187","Reeder Twp
Treasurer",0,0,130,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TREASURER\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027188","Richland Twp
Treasurer",0,0,135,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TREASURER\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027189","Riverside Twp
Treasurer",0,0,140,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TREASURER\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027190","W Branch Twp
Treasurer",0,0,145,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TREASURER\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102027204","Aetna Twp
Trustee",0,0,75,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TRUSTEE\par
\b0\fs20 Vote for not more than 2\par
,0

7,"OFFICE-102027205","Bloomfield Twp
Trustee",0,0,80,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TRUSTEE\par
\b0\fs20 Vote for not more than 2\par
,0

7,"OFFICE-102027206","Butterfield Twp
Trustee",0,0,85,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TRUSTEE\par
\b0\fs20 Vote for not more than 2\par
,0

7,"OFFICE-102027207","Caldwell Twp
Trustee",0,0,90,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TRUSTEE\par
\b0\fs20 Vote for not more than 2\par
,0

7,"OFFICE-102027208","Clam Union Twp
Trustee",0,0,95,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TRUSTEE\par
\b0\fs20 Vote for not more than 2\par
,0

7,"OFFICE-102027209","Enterprise Twp
Trustee",0,0,100,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TRUSTEE\par
\b0\fs20 Vote for not more than 2\par
,0

7,"OFFICE-102027210","Forest Twp
Trustee",0,0,105,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TRUSTEE\par
\b0\fs20 Vote for not more than 2\par
,0

7,"OFFICE-102027211","Holland Twp
Trustee",0,0,110,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TRUSTEE\par
\b0\fs20 Vote for not more than 2\par
,0

7,"OFFICE-102027212","Lk Twp
Trustee",0,0,115,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TRUSTEE\par
\b0\fs20 Vote for not more than 2\par
,0

7,"OFFICE-102027213","Norwich Twp
Trustee",0,0,120,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TRUSTEE\par
\b0\fs20 Vote for not more than 2\par
,0

7,"OFFICE-102027214","Pioneer Twp
Trustee",0,0,125,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TRUSTEE\par
\b0\fs20 Vote for not more than 2\par
,0

7,"OFFICE-102027215","Reeder Twp
Trustee",0,0,130,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TRUSTEE\par
\b0\fs20 Vote for not more than 2\par
,0

7,"OFFICE-102027216","Richland Twp
Trustee",0,0,135,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TRUSTEE\par
\b0\fs20 Vote for not more than 2\par
,0

7,"OFFICE-102027217","Riverside Twp
Trustee",0,0,140,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TRUSTEE\par
\b0\fs20 Vote for not more than 2\par
,0

7,"OFFICE-102027218","W Branch Twp
Trustee",0,0,145,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 TRUSTEE\par
\b0\fs20 Vote for not more than 2\par
,0

7,"OFFICE-102023480","Forest Twp
Constable",0,0,105,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 CONSTABLE\par
\b0\fs20 Vote for not more than 2\par
,0

7,"OFFICE-102029018","Justice Supreme
Court",0,1,150,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 JUSTICE OF SUPREME COURT\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102029032","Judge APPEALS
4",0,1,155,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 JUDGE OF COURT OF APPEALS\par
4TH DISTRICT\par
NON-INCUMBENT POSITION\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102029033","Judge APPEALS
4",0,0,155,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 JUDGE OF COURT OF APPEALS\par
4TH DISTRICT\par
NON-INCUMBENT POSITION\par
\b0\fs20 Vote for not more than 2\par
,0

7,"OFFICE-102023335","Judge Circuit
Crt",0,0,160,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 JUDGE OF CIRCUIT COURT\par
28TH CIRCUIT\par
NON-INCUMBENT POSITION\par
\b0\fs20 Vote for not more than 1\par
,0

7,"OFFICE-102023469","Judge District
Ct",0,0,165,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs24 JUDGE OF DISTRICT COURT\par
84TH DISTRICT\par
NON-INCUMBENT POSITION\par
\b0\fs20 Vote for not more than 1\par
,0

7,"PROP-102001140","PROPOSAL 08-1",1,0,15,1,0,{\rtf1\ansi\ansicpg1252\deff0{\fonttbl{\f0\fnil\fcharset0 Arial
Narrow;}}

\viewkind4\uc1\pard\sa240\lang1033\b\fs20 A LEGISLATIVE INITIATIVE TO PERMIT THE USE AND CULTIVATION OF MARIJUANA FOR SPECIFIED MEDICAL CONDITIONS\par

\b0 The proposed law would:\par

\pard\fi-360\li360\sa240\tx360\b7\tab Permit physician approved use of marijuana by registered patients with debilitating medical conditions including cancer, glaucoma, HIV, AIDS, hepatitis C, MS and other conditions as may be approved by the Department of Community Health.\scaps\par

\pard\fi-360\li360\sa240\scaps0\b7 Permit registered individuals to grow limited amounts of marijuana for qualifying patients in an enclosed, locked facility.\par

\b7 Require Department of Community Health to establish an identification card system for patients qualified to use marijuana and individuals qualified to grow marijuana.\par

\b7 Permit registered and unregistered patients and primary caregivers to assert medical reasons for using marijuana as a defense to any prosecution involving marijuana.\par

\pard\sa240\par

Should this proposal be adopted?},0

7,"PROP-102001141","PROPOSAL 08-2",1,0,15,1,0,{\rtf1\ansi\ansicpg1252\deff0{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}

\viewkind4\uc1\pard\sa240\lang1033\b\fs20 A PROPOSAL TO AMEND THE STATE CONSTITUTION TO ADDRESS HUMAN EMBRYO AND HUMAN EMBRYONIC STEM CELL RESEARCH IN MICHIGAN\par

\b0 The proposed constitutional amendment would:\par

\pard\fi-360\li360\sa240\tx360\b7\tab Expand use of human embryos for any research permitted under federal law subject to the following limits: the embryos --\par

\pard\fi360\sa240 -- are created for fertility treatment purposes;\par

-- are not suitable for implantation or are in excess of clinical needs;\par

-- would be discarded unless used for research;\par

-- were donated by the person seeking fertility treatment.\par

\pard\fi-360\li360\sa240\tx360\b7\tab Provide that stem cells cannot be taken from human embryos more than 14 days after cell division begins.\par

\pard\fi-360\li360\sa240\b7 Prohibit any person from selling or purchasing human embryos for stem cell research.\par

\b7 Prohibit state and local laws that prevent, restrict or discourage stem cell research, future therapies and cures. \par

\pard\sa240 Should this proposal be adopted?},0

RecordType 8

RecordType (int), RaceId (int), CandId (int), Label (string), Type (int), SortSeq (int), VGroupId (int), BallotText (string or rtf)

Where:

RecordType is used to identify the record and is 8 for Candidate records.

RaceId is the identifier for the race, as defined in the Race record, which the candidate is associated with. This field acts as a reference Id.

CandId is the unique (key) identifier for the candidate. Can be negative integer.

Label is the label for the candidate that is printed on reports, maximum 20 characters

Type is the type of candidate, (0 - Candidate, 1 - WriteIn, 2- RegisteredWriteIn)

SortSeq is the base order the candidates appear on the ballot, range 0 to 2147483647.

VGroupId is the identifier for the voter group as defined in the Voter Group record that endorses the candidate or 0 if the candidate is not endorsed. This field acts as a reference Id.

BallotText is the text that is printed on the ballots. This text may be a string enclosed in quotes or RTF data, see comment at beginning of this document regarding ballot text, maximum 8195 characters

Sample data with RTF

8,"OFFICE-102028948",-621,"John McCain/Sarah Palin",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}

\viewkind4\uc1\pard\qr\b\fs20 John McCain\par
 Sarah Palin\par
 \b0\fs16 Republican}
 8,"OFFICE-102028948",-623,"Barack Obama/Joe
 Biden",0,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qr\b\fs20 Barack Obama\par
 Joe Biden\par
 \b0\fs16 Democratic}
 8,"OFFICE-102028948",-613,"Cynthia McKinney/Rosa
 Clemente",0,3,14,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qr\b\fs20 Cynthia McKinney\par
 Rosa Clemente\par
 \b0\fs16 Green}
 8,"OFFICE-102028948",-572,"Chuck Baldwin/Darrell L.
 Castle",0,4,13,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qr\b\fs20 Chuck Baldwin\par
 Darrell L. Castle\par
 \b0\fs16 U.S. Taxpayers}
 8,"OFFICE-102028948",-599,"Bob Barr/Wayne A.
 Root",0,5,3,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qr\b\fs20 Bob Barr\par
 Wayne A. Root\par
 \b0\fs16 Libertarian}
 8,"OFFICE-102028948",-615,"Ralph Nader/Matt
 Gonzalez",0,6,12,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qr\b\fs20 Ralph Nader\par
 Matt Gonzalez\par
 \b0\fs16 Natural Law}
 8,"OFFICE-102025038",-554,"Jack Hoogendyk,
 Jr.",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qr\b\fs20 Jack Hoogendyk, Jr.\par
 \b0\fs16 Republican}
 8,"OFFICE-102025038",-559,"Carl Levin",0,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0
 Arial Narrow;}}
 \viewkind4\uc1\pard\qr\b\fs20 Carl Levin\par
 \b0\fs16 Democratic}
 8,"OFFICE-102025038",-603,"Harley G.
 Mikkelson",0,3,14,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qr\b\fs20 Harley G. Mikkelson\par
 \b0\fs16 Green}
 8,"OFFICE-102025038",-580,"Michael N.
 Nikitin",0,4,13,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qr\b\fs20 Michael N. Nikitin\par
 \b0\fs16 U.S. Taxpayers}
 8,"OFFICE-102025038",-584,"Scotty
 Boman",0,5,3,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qr\b\fs20 Scotty Boman\par
 \b0\fs16 Libertarian}
 8,"OFFICE-102025038",-617,"Doug
 Dern",0,6,12,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qr\b\fs20 Doug Dern\par
 \b0\fs16 Natural Law}
 8,"OFFICE-102025042",-548,"David
 Camp",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
 \viewkind4\uc1\pard\qr\b\fs20 David Camp\par
 \b0\fs16 Republican}

8,"OFFICE-102025042",-537,"Andrew D. Concannon",0,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Andrew D. Concannon\par\b0\fs16 Democratic}

8,"OFFICE-102025042",-581,"John Emerick",0,3,13,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 John Emerick\par\b0\fs16 U.S. Taxpayers}

8,"OFFICE-102025042",-588,"Allitta Hren",0,4,3,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Allitta Hren\par\b0\fs16 Libertarian}

8,"OFFICE-102025396","513853","Dave Ryan",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Dave Ryan\par\b0\fs16 Republican}

8,"OFFICE-102025396","511723","Joel A. Sheltrown",0,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Joel A. Sheltrown\par\b0\fs16 Democratic}

8,"OFFICE-102029019","514194","Scott Jenkins",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Scott Jenkins\par\b0\fs16 Republican}

8,"OFFICE-102029019","514241","Richard Zeile",0,2,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Richard Zeile\par\b0\fs16 Republican}

8,"OFFICE-102029019","510139","John Austin",0,3,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 John Austin\par\b0\fs16 Democratic}

8,"OFFICE-102029019","506568","Kathleen Straus",0,4,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Kathleen Straus\par\b0\fs16 Democratic}

8,"OFFICE-102029019","513688","Dwain Reynolds III",0,5,14,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Dwain Reynolds III\par\b0\fs16 Green}

8,"OFFICE-102029019","514007","Karen Adams",0,6,13,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Karen Adams\par\b0\fs16 U.S. Taxpayers}

8,"OFFICE-102029019","514001","Gail M. Graeser",0,7,13,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Gail M. Graeser\par\b0\fs16 U.S. Taxpayers}

8,"OFFICE-102029019","514162","Bill Hall",0,8,3,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Bill Hall\par\b0\fs16 Libertarian}

8,"OFFICE-102029019","514163","Jeff A. Steinport",0,9,3,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Jeff A. Steinport\par\b0\fs16 Libertarian}

8,"OFFICE-102029020","512539","Susan Brown",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Susan Brown\par\b0\fs16 Republican}

8,"OFFICE-102029020","514195","John G. LaFond",0,2,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 John G. LaFond\par\b0\fs16 Republican}

8,"OFFICE-102029020","506533","Laurence B. Deitch",0,3,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Laurence B. Deitch\par\b0\fs16 Democratic}

8,"OFFICE-102029020","514235","Denise Ilitch",0,4,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Denise Ilitch\par\b0\fs16 Democratic}

8,"OFFICE-102029020","514213","Ellis Boal",0,5,14,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Ellis Boal\par\b0\fs16 Green}

8,"OFFICE-102029020","513995","Richard Ryskamp",0,6,13,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Richard Ryskamp\par\b0\fs16 U.S. Taxpayers}

8,"OFFICE-102029020","513654","Joe Sanger",0,7,13,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Joe Sanger\par\b0\fs16 U.S. Taxpayers}

8,"OFFICE-102029020","513861","Eric L. Larson",0,8,3,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Eric L. Larson\par\b0\fs16 Libertarian}

8,"OFFICE-102029020","514190","Kerry L. Morgan",0,9,3,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Kerry L. Morgan\par\b0\fs16 Libertarian}

8,"OFFICE-102029021","514155","Lisa Bouchard",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Lisa Bouchard\par\b0\fs16 Republican}

8,"OFFICE-102029021","510135","George Scott Romney",0,2,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 George Scott Romney\par\b0\fs16 Republican}

8,"OFFICE-102029021","514227","Dianne Byrum",0,3,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Dianne Byrum\par\b0\fs16 Democratic}

8,"OFFICE-102029021","514239","Diann Woodard",0,4,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Diann Woodard\par\b0\fs16 Democratic}

8,"OFFICE-102029021","514214","Therese Marie Storm",0,5,14,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Therese Marie Storm\par\b0\fs16 Green}

8,"OFFICE-102029021","514003","Robert Gale",0,6,13,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Robert Gale\par\b0\fs16 U.S. Taxpayers}

8,"OFFICE-102029021","513993","Crystal Van Sickle",0,7,13,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Crystal Van Sickle\par\b0\fs16 U.S. Taxpayers}

8,"OFFICE-102029021","514165","David A. Brown",0,8,3,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 David A. Brown\par\b0\fs16 Libertarian}

8,"OFFICE-102029021","514164","Joseph Rosenquist",0,9,3,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Joseph Rosenquist\par\b0\fs16 Libertarian}

8,"OFFICE-102029022","513912","Torion J. Bridges",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Torion J. Bridges\par\b0\fs16 Republican}

8,"OFFICE-102029022","514201","Danialle Karmanos",0,2,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Danialle Karmanos\par\b0\fs16 Republican}

8,"OFFICE-102029022","510137","Paul Massaron",0,3,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Paul Massaron\par\b0\fs16 Democratic}

8,"OFFICE-102029022","514237","Gary S. Pollard",0,4,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Gary S. Pollard\par\b0\fs16 Democratic}

8,"OFFICE-102029022","514217","Margaret Guttshall",0,5,14,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Margaret Guttshall\par\b0\fs16 Green}

8,"OFFICE-102029022","514005","Rick Butkowski",0,6,13,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Rick Butkowski\par\b0\fs16 U.S. Taxpayers}

8,"OFFICE-102029022","513999","Terry Haines",0,7,13,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Terry Haines\par\b0\fs16 U.S. Taxpayers}

8,"OFFICE-102029022","514167","Dan Keizer",0,8,3,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Dan Keizer\par\b0\fs16 Libertarian}

8,"OFFICE-102029022","514166","Nicole Michalak",0,9,3,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Nicole Michalak\par\b0\fs16 Libertarian}

8,"OFFICE-102023801","",,"William J Donnelly Jr",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 William J Donnelly Jr\par\b0\fs16 Republican}

8,"OFFICE-102023922","", "James D Bosscher",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 James D Bosscher\par\b0\fs16 Republican}

8,"OFFICE-102024097","", "Carolyn Flore",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Carolyn Flore\par\b0\fs16 Republican}

8,"OFFICE-102024304","", "Barbara Hancock",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Barbara Hancock\par\b0\fs16 Republican}

8,"OFFICE-102024903","", "Lonny Lutke",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Lonny Lutke\par\b0\fs16 Republican}

8,"OFFICE-102024850","", "Lan Bridson",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Lan Bridson\par\b0\fs16 Republican}

8,"OFFICE-102024851","", "Brian Whipple",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Brian Whipple\par\b0\fs16 Republican}

8,"OFFICE-102024851","", "Richard Renner",0,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Richard Renner\par\b0\fs16 Democratic}

8,"OFFICE-102029627","", "Dave N Robinson",0,1,0,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Dave N Robinson\par\b0\fs16 No Party Affiliation}

8,"OFFICE-102024852","", "Susan Rogers",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Susan Rogers\par\b0\fs16 Republican}

8,"OFFICE-102024853","", "Dean Vivian",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Dean Vivian\par\b0\fs16 Republican}

8,"OFFICE-102024854","", "Star Hughston",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Star Hughston\par\b0\fs16 Republican}

8,"OFFICE-102024855","", "Hubert R Zuiderveen",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Hubert R Zuiderveen\par\b0\fs16 Republican}

8,"OFFICE-102023875","", "Ronald Huttenga",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Ronald Huttenga\par\b0\fs16 Republican}

8,"OFFICE-102023876","", "Kelly Powell",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Kelly Powell\par\b0\fs16 Republican}

8,"OFFICE-102023877","", "Thomas G Bowman",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Thomas G Bowman\par\b0\fs16 Republican}

8,"OFFICE-102023878","", "Mike Lutke",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Mike Lutke\par\b0\fs16 Republican}

8,"OFFICE-102023878","", "Daniel G Mills",0,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Daniel G Mills\par\b0\fs16 Democratic}

8,"OFFICE-102023879","", "Brad Van Haitsma",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Brad Van Haitsma\par\b0\fs16 Republican}

8,"OFFICE-102023880","", "Stephen A Howey Jr",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Stephen A Howey Jr\par\b0\fs16 Republican}

8,"OFFICE-102023881","", "Eugene P Pitts",0,1,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Eugene P Pitts\par\b0\fs16 Democratic}

8,"OFFICE-102023882","", "Don Byrne",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Don Byrne\par\b0\fs16 Republican}

8,"OFFICE-102029626","", "Thomas R Duddles",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Thomas R Duddles\par\b0\fs16 Republican}

8,"OFFICE-102023883","", "Penny Blair",0,1,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Penny Blair\par\b0\fs16 Democratic}

8,"OFFICE-102023884","", "Arleen Hutchinson",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Arleen Hutchinson\par\b0\fs16 Republican}

8,"OFFICE-102023885","", "Daniel L Gallop",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Daniel L Gallop\par\b0\fs16 Republican}

8,"OFFICE-102023886","", "Karlene Paffhouse",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Karlene Paffhouse\par\b0\fs16 Republican}

8,"OFFICE-102023887","", "David C Rozeveld",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 David C Rozeveld\par\b0\fs16 Republican}

8,"OFFICE-102023888","", "Cindy S Wagner",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Cindy S Wagner\par\b0\fs16 Republican}

8,"OFFICE-102027082","","Rita Tucker",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Rita Tucker\par
\b0\fs16 Republican}

8,"OFFICE-102027083","","Laura Muste",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Laura Muste\par
\b0\fs16 Republican}

8,"OFFICE-102027084","","Marilyn R Myers",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Marilyn R Myers\par
\b0\fs16 Republican}

8,"OFFICE-102027085","","Shelley Sloat",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Shelley Sloat\par
\b0\fs16 Republican}

8,"OFFICE-102027086","","Steven Ebels",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Steven Ebels\par
\b0\fs16 Republican}

8,"OFFICE-102027087","","K Lynn Pope",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 K Lynn Pope\par
\b0\fs16 Republican}

8,"OFFICE-102027088","","Catherine Molitor",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Catherine Molitor\par
\b0\fs16 Republican}

8,"OFFICE-102027089","","Donna Bode",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Donna Bode\par
\b0\fs16 Republican}

8,"OFFICE-102027090","","Kay Ouwinga",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Kay Ouwinga\par
\b0\fs16 Republican}

8,"OFFICE-102027091","","Lois Whipple",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Lois Whipple\par
\b0\fs16 Republican}

8,"OFFICE-102027092","","Pauline Hose",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Pauline Hose\par
\b0\fs16 Republican}

8,"OFFICE-102027093","","Roger Jenema",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Roger Jenema\par
\b0\fs16 Republican}

8,"OFFICE-102027094","","Julie K Dick",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Julie K Dick\par
\b0\fs16 Republican}

8,"OFFICE-102027095","","Mildred Rozeveld",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Mildred Rozeveld\par
\b0\fs16 Republican}

8,"OFFICE-102027096","", "Penny E Aldrich",0,1,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Penny E Aldrich\par\b0\fs16 Democratic}

8,"OFFICE-102027176","", "Mark Jenema",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Mark Jenema\par\b0\fs16 Republican}

8,"OFFICE-102027177","", "Pat Powell",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Pat Powell\par\b0\fs16 Republican}

8,"OFFICE-102027178","", "Carrie L Creger",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Carrie L Creger\par\b0\fs16 Republican}

8,"OFFICE-102027179","", "Elna Brachel",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Elna Brachel\par\b0\fs16 Republican}

8,"OFFICE-102027180","", "Terry R Lutke",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Terry R Lutke\par\b0\fs16 Republican}

8,"OFFICE-102027181","", "Carla Baumgardner",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Carla Baumgardner\par\b0\fs16 Republican}

8,"OFFICE-102027182","", "Susie J Jones",0,1,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Susie J Jones\par\b0\fs16 Democratic}

8,"OFFICE-102027183","", "Madeline Hunter",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Madeline Hunter\par\b0\fs16 Republican}

8,"OFFICE-102027184","", "Jan Delbello",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Jan Delbello\par\b0\fs16 Republican}

8,"OFFICE-102027185","", "Terrie L Wiggins",0,1,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Terrie L Wiggins\par\b0\fs16 Democratic}

8,"OFFICE-102027186","", "Anna Crane",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Anna Crane\par\b0\fs16 Republican}

8,"OFFICE-102027187","", "Aldyne B Ebels",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Aldyne B Ebels\par\b0\fs16 Republican}

8,"OFFICE-102027188","", "Darla Kars",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Darla Kars\par\b0\fs16 Republican}

8,"OFFICE-102027189","", "Morris
Dieterman",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Morris Dieterman\par
\b0\fs16 Republican}

8,"OFFICE-102027190","", "Karrie L Loney",0,1,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0
Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Karrie L Loney\par
\b0\fs16 Democratic}

8,"OFFICE-102027204","", "Keith A Dick",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0
Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Keith A Dick\par
\b0\fs16 Republican}

8,"OFFICE-102027204","", "Mary Lynne
Schoo",0,2,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Mary Lynne Schoo\par
\b0\fs16 Republican}

8,"OFFICE-102027205","", "Sally Gill",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial
Narrow;}}
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\b0\fs16 Republican}

8,"OFFICE-102027205","", "Ted Peasley",0,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0
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\viewkind4\uc1\pard\qr\b\f0\fs20 Ted Peasley\par
\b0\fs16 Democratic}

8,"OFFICE-102027206","", "Alice M
Chrispell",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
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\b0\fs16 Republican}

8,"OFFICE-102027206","", "Daniel Elsholz",0,2,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0
Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Daniel Elsholz\par
\b0\fs16 Republican}

8,"OFFICE-102027207","", "Gordon D
Brown",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Gordon D Brown\par
\b0\fs16 Republican}

8,"OFFICE-102027207","", "Gordon T
Haver",0,2,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Gordon T Haver\par
\b0\fs16 Republican}

8,"OFFICE-102027208","", "Bernard Brinks",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0
Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Bernard Brinks\par
\b0\fs16 Republican}

8,"OFFICE-102027208","", "Judy A
Jenema",0,2,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Judy A Jenema\par
\b0\fs16 Republican}

8,"OFFICE-102027209","", "Cindy Howitt",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0
Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Cindy Howitt\par
\b0\fs16 Republican}

8,"OFFICE-102027209","", "Anita Londak",0,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0
Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Anita Londak\par
\b0\fs16 Democratic}

8,"OFFICE-102027210","", "Geraldine
Mcgee",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Geraldine Mcgee\par
\b0\fs16 Republican}

8,"OFFICE-102027210","", "Clifford Curtis",0,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0
Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Clifford Curtis\par
\b0\fs16 Democratic}

8,"OFFICE-102027211","", "Peter C
Heliste",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Peter C Heliste\par
\b0\fs16 Republican}

8,"OFFICE-102027211","", "Edith F
Pearson",0,2,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs20 Edith F Pearson\par
\b0\fs16 Republican}

8,"OFFICE-102027212","", "Kevin Gill",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0 Arial
Narrow;}}
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\b0\fs16 Republican}

8,"OFFICE-102027212","", "Robert Hall",0,2,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0
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\b0\fs16 Republican}

8,"OFFICE-102027213","", "John Edward
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\b0\fs16 Republican}

8,"OFFICE-102027213","", "Dennis Mccoy",0,2,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0
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\b0\fs16 Republican}

8,"OFFICE-102027213","", "Susan Lehr",0,3,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0
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8,"OFFICE-102027214","", "Nancy
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8,"OFFICE-102027215","", "Keith A Ebels",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fcharset0
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8,"OFFICE-102027215","", "George J
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8,"OFFICE-102027216","", "Daniel
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8,"OFFICE-102027217","", "Barbara Henrickson",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Barbara Henrickson\par\b0\fs16 Republican}

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8,"OFFICE-102027218","", "Jeannie Wilton",0,2,2,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Jeannie Wilton\par\b0\fs16 Democratic}

8,"OFFICE-102023480","", "Raymond W Moore",0,1,1,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Raymond W Moore\par\b0\fs16 Republican}

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8,"OFFICE-102029018","514180", "Robert W. Roddis",0,2,0,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Robert W. Roddis\par\b0\fs16 Justice of Supreme Court}

8,"OFFICE-102029018","508576", "Cliff Taylor",0,3,0,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Cliff Taylor\par\b0\fs16 Justice of Supreme Court}

8,"OFFICE-102029032","513862", "Michael J. Kelly",0,1,0,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Michael J. Kelly\par\b0\fs16 Judge of Court Of Appeals}

8,"OFFICE-102029032","513962", "Paula Manderfield",0,2,0,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Paula Manderfield\par\b0\fs16 Judge of Court Of Appeals}

8,"OFFICE-102029033","512732", "Alton T. Davis",0,1,0,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Alton T. Davis\par\b0\fs16 Judge of Court Of Appeals}

8,"OFFICE-102029033","509704", "Patrick Murphy Meter",0,2,0,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\charset0 Arial Narrow;}}\viewkind4\uc1\pard\qr\b\f0\fs20 Patrick Murphy Meter\par\b0\fs16 Judge of Court Of Appeals}

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8,"OFFICE-102023335","513781","William M.
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\b0\fs16 Judge of Circuit Court}
8,"OFFICE-102023469","505660","David A.
Hogg",0,1,0,{\rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil\fccharSet0 Arial Narrow;}}
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\b0\fs16 Judge of District Court}
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\b0}
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Arial Narrow;}}
\viewkind4\uc1\pard\qr\b\f0\fs22 YES\par
\b0}
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\viewkind4\uc1\pard\qr\b\f0\fs22 NO\par
\b0}

```

RecordType 9

RecordType (int), HeaderId (string/int), ShortLabel (string), SortSeq (int), BallotText (string/rtf).

Where:

RecordType is used to identify the record and is 9 for Header records.

HeaderId is the unique (key) identifier for the ballot division (header), maximum 254 characters
The numeric lower limit is 1, while the upper limit is 2147483647.

ShortLabel is a three character short label that is displayed on the screen, maximum 254 characters

SortSeq is the base order the candidates appear on the ballot, range 1 to 2147483647.

BallotText is the text that is printed on the ballots. This text may be a string enclosed in quotes
or RTF data, see comment at beginning of this document regarding ballot text, maximum 8195
characters

Sample data

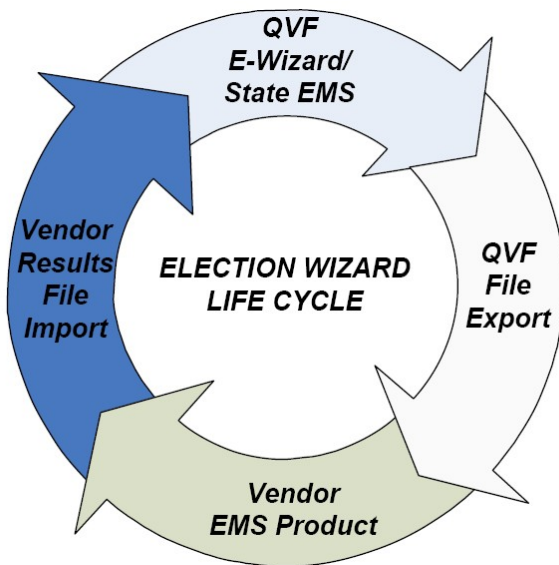
```

9,"1","PRESIDENTIAL",1,"PRESIDENTIAL",{rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs20 PRESIDENTIAL}
9,"3","CONGRESSIONAL",3,"CONGRESSIONAL",{rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil Arial
Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs20 CONGRESSIONAL}
9,"4","LEGISLATIVE",4,"LEGISLATIVE",{rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs20 LEGISLATIVE}
9,"5","STATE BOARD",5,"STATE BOARD",{rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs20 STATE BOARD}
9,"6","COUNTY",6,"COUNTY",{rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs20 COUNTY}
9,"8","TOWNSHIP",8,"TOWNSHIP",{rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs20 TOWNSHIP}
9,"9","JUDICIAL",10,"JUDICIAL",{rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil Arial Narrow;}}
\viewkind4\uc1\pard\qc\b\f0\fs20 JUDICIAL}

```

9,"15","STATE PROPOSALS",17,"STATE PROPOSALS",{rtf1\ansi\ansicpg1252\deff0\deflang1033{\fonttbl{\f0\fnil Arial Narrow;}}\viewkind4\uc1\pard\qc\b\fs20 STATE PROPOSALS}

Section 2 – Michigan Code Structure – Precinct, Office and Candidate Codes



Michigan Import File Code Structure

QVF Unique precinct value as one of the following

- WP = Ward Precinct Value – Potentially any Election
- SP = School Precinct Value – Potentially any non-Federal Election
- CP = Consolidated Precinct Value – Potentially any non-Federal Election
- AV = Absentee Voter Counting Board – Potentially any Election; ONLY APPLIES TO CTIY OF DETROIT

WP-COUNTY-JURISDICTION-WARDPRECINCT (15-16 characters)

CCJJJJWWPPPA where:

- CC = QVF County Code
- JJJJJ = QVF Jurisdiction Code
- WW = QVF Ward, 00 if none
- PPP = QVF Precinct Number
- A = Additional Letter if necessary

Example: WP-81-03000-03003 “City of Ann Arbor, Ward 3, Precinct 3”

SP-COUNTY-DISTRICT-PRECINCT

SSSSPPPPPA where:

SSSSS = QVF School District Code

PPPPP = QVF School Precinct Number
A = Additional Letter if necessary
Example: SP-02160-00001 "Alcona Community Schools, Precinct 1"

CP-COUNTY-JURISDICTION-COMBINED PRECINCT NAME

CCJJJJZZZZZ where:

CC = QVF County Code of assigned Polling Location
JJJJ = QVF Jurisdiction Code of assigned Polling Location
ZZZZ = Combined Precinct character value

Example: CP-82-00300-3-1&2 "City of Ann Arbor, Ward 3, Precincts 1&2"

AV-City of Detroit Absentee Voter Counting Board (AVCB)

Example: AV-82-22000-0019 "City of Detroit, AVCB 19"

OVE Office Codes

OFFICE-XXXXXXXXX

PROP - XXXXXXXXX

where: XXXXXXXXX = Unique Oracle Generated Code

OFFICE = Office Code

Example: OFFICE-31004214

COUNCIL MEMBER BY WARD (City of Ann Arbor, Ward 5)

WARD 5

Vote for not more than 1

PROP = Proposal or Question Code

Example: PROP-31002402

OVE Candidate Codes

CommitteeID (6 characters) for Statewide Electbalcanid (6 characters) for local

6 digit unique code from State Candidate Management Database for State and Federal offices. (Can be negative for Federal Offices)

Example: 513186

6 digit unique Oracle sequence identifier for County and local offices starting at 700000

Example: 700502

Automated process runs on the Oracle scheduler to assign local codes to candidates entered into E-Wizard Stage 2 starting with 700000 and continuing upward for each election.

8 digit unique Oracle sequence identifier for State, County and Local proposals starting at 31000000 with Y or N value.

31002402Y for YES value

31002402N for NO value

State Candidates -1000 to 699999

Local Candidates 700000 to 999999

State/Local Proposal Candidates (YES/NO) 31000000 and up

Section 3 – Michigan Standard Results File Format – *For import from Vendor EMS products into the State EMS*

Michigan Standard Results File Format (MSRFF) File Naming Structure

The following is the required file name format for each file using the Michigan Standard Results File Format (MSRFF).

<32 character MD5 of file>.<county name>.<Version>.csv

Version is optional, but only one file will be accepted from a county without it. The file will have a .csv file extension. The Version must increment with each subsequent upload. Version is a 3 digit number, with leading zeros.

Example:

6973561bc01d39c9563119a1c1dbdaed.Missaukee.001.csv

Each subsequent file will increment the Version Number

567890wer05d677y51u116m511tbvatrb.Missaukee.002.csv

The MD5 hash should be different with each file. This is an indicator that the contents of the file are a duplicate from a previous file submittal.

The MD5 signature also verifies the integrity of the data contained in the file was not compromised when the data file was transferred.

Michigan Standard Results File Format 1.0

Revised 12/10/2009

The Michigan Standard Results File contains precinct results and/or summary election results, delimited with blanks or commas, with strings enclosed in quotes or not.

FORMAT OVERVIEW

For each precinct as well as for the election summary, the Standard Results File may contain the following items:

1. Two statistical records for all races, including the:
 - a. Number of precincts running in the election
 - b. Number of precincts started reporting
2. For every race:
 - a. Candidate counts for every candidate in the race
 - b. Write-in values for each race by precinct
 - c. Ballots cast for each race by precinct
 - d. Total overvotes
 - e. Total undervotes

FIELD DEFINITIONS – Columns

Name	Default Type	Max. Value/Width	Description
Office Id	String	16 characters	QVF Identifier for the office.
Precinct Id	String	16 characters	QVF Identifier for the precinct.
Candidate Id	Number	9999999999	QVF Identifier for the candidate or statistical identifier.
Count	Number	9999999999	Counter (e.g. votes, ballots cast) for the records

RACE DETAIL – Rows

The export file consists of a series of records (rows) that contain results for the precinct, races, and candidates.

For each file one file header record and two statistics records are listed

1.1 Header Record

Fields are set as follows in the header record.

"11/04/2008 Missaukee County - Exported at: Dec 9 2009 8:41AM"

- Election Date
- File Name
- Export Information including Date and Time

1.2 Statistics Records

- Number of Precincts – uses 9999994 as code
- Number of Started (Number of Precincts Reporting) – uses 9999995 as code
- Ballots Cast by Precinct (Each Precinct has an individual record per office) – uses 9999996 code
- Overvotes by Precinct (Each Precinct has an individual record per office) - uses 9999997 code
- Undervotes by Precinct (Each Precinct has an individual record per office) – uses 9999998 code

1.3 Race Statistics Records

"OFFICE-102028948","WP-57-44480-00001",-621,216

<<QVF Office Code>>, <<QVF Precinct Code>>, <<QVF Candidate Code>>, <<Vote Count>>

- Write-in Values are indicated with a QVF Candidate Code of 9999999. One count per race.

1.4 Absentee Counting Board Records

- If AV Counting Boards are being used (collector groups) where Precinct and Absentee Totals need to be separated, the Absentee group can be reported in a system generated AV precinct as show below retaining the county-jurisdiction-precinct code numbers from the Ward Precinct (WP) value.

WP-23-21520-00001 – Election Day (Precinct/Polling Place) Totals
 AV-23-21520-00001 – Absentee (AVCB) Totals

SAMPLE OUTPUT

```
"11/04/2008 Missaukee County - Exported at: Dec 9 2009 8:41AM"
"Number of Precncts", "", 9999994, 17
"Number of Started", "", 9999995, 17
"OFFICE-102028948", "WP-57-44480-00001", 9999996, 440
"OFFICE-102028948", "WP-57-49980-00001", 9999996, 315
"OFFICE-102028948", "WP-57-00520-00001", 9999996, 249
"OFFICE-102028948", "WP-57-09080-00001", 9999996, 283
"OFFICE-102028948", "WP-57-12200-00001", 9999996, 261
"OFFICE-102028948", "WP-57-12440-00001", 9999996, 643
"OFFICE-102028948", "WP-57-15900-00001", 9999996, 488
"OFFICE-102028948", "WP-57-26200-00001", 9999996, 101
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"OFFICE-102028948", "WP-57-44380-00001", 9999996, 1470
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