



CITY OF DETROIT  
 FINANCE DEPARTMENT  
 PURCHASING DIVISION  
 1008 COLEMAN A. YOUNG  
 MUNICIPAL CENTER  
 DETROIT, MICHIGAN 48226  
 PHONE 313-224-4600  
 FAX 313-224-4374

IF THIS PURCHASE ORDER  
 DOES NOT AGREE WITH THE  
 BID YOU SUBMITTED,  
 PLEASE CONTACT THE  
 PURCHASING DIVISION.

### Purchase Order

PURCHASE ORDER NO. 2914367 REVISION 0 PAGE 1

THE ABOVE NUMBER MUST APPEAR ON ALL INVOICES AND SHIPMENTS.

SHIP TO  
 13331 Lyndon  
 Detroit, MI 48227  
 United States

BILL TO  
 Coleman A Young Municipal Ce  
 2 Woodward Avenue  
 Ste 642  
 Detroit, MI 48226  
 United States

**SUPPLIER**

MOTOROLA SOLUTIONS INC  
 1301 E ALGONQUIN RD  
 SCHAUMBURG, IL 60196

SUPPLIER NO. 1113274	DATE OF ORDER/BUYER 21-SEP-15 M Sullivan	REVISED DATE/BUYER
PAYMENT TERMS Net 30	SHIP VIA Unspecified	F.O.B. Delivered
FREIGHT TERMS Account of seller	REQUESTOR/DELIVER TO	CONFIRM TO / TELEPHONE T COPPA (734) 362-8272

LINE	ITEM NUMBER / DESCRIPTION	DELIVERY DATE	QUANTITY	UNIT	UNIT PRICE	EXTENSION	TAX
	<p>THIS CONTRACT PURCHASE ORDER WAS CREATED IN ACCORDANCE WITH STATE OF MICHIGAN MIDEAL CONTRACT NO. 071B2200101</p> <p>FURNISH: APX6000 MODEL 2.5 PORTABLE RADIOS AND ACCESSORIES, MCC7500 IP DISPATCH CONSOLES &amp; IP LOGGER, EXPANSION OF RTCC; 2 YEAR TERM (09/30/15-09/29/17); 100% CITY FUNDS</p> <p>PRICING, TERMS, AND CONDITIONS PER THE STATE OF MICHIGAN MIDEAL CONTRACT NO. 071B2200101. SCOPE OF WORK PER THE MOTOROLA PROPOSAL NO. PRR53379 DATED 08/14/2015.</p> <p>TERMINATION OF CONTRACT:            The City reserves the absolute right to terminate this contract in whole or in part for the convenience of the City at its sole discretion on thirty (30) days written notice to the vendor.</p> <p>The Individual responsible for accepting performance under this Contract is Scott Hayes, who may be reached at, 313-405-8837.</p> <p>The contact person from whom payment should be requested is Tina Tolliver, who may be reached at 313-596-5494.</p> <p>INVOICING:            All invoices submitted against the contract must include part or item numbers and part or item description, list price, and applicable discount. Items not properly invoiced will not be paid. It is the vendor's responsibility to ensure delivery of invoice(s) to the proper City Dept/Div/Personnel. Invoices must meet the following conditions for</p>						

CONTRACTS AND PURCHASES BETWEEN THE VENDOR AND THE CITY OF DETROIT ARE SUBJECT TO FEDERAL, STATE AND LOCAL LAWS INCLUDING, BUT NOT LIMITED TO, EQUAL EMPLOYMENT OPPORTUNITY AND AFFIRMATIVE ACTION. THE CITY MAY TERMINATE THE CONTRACT FOR CAUSE OR CONVENIENCE. NO CHANGES EFFECTIVE UNLESS AGREED TO IN WRITING BY CONTRACT AMENDMENT. ONLY SUCH GOODS WILL BE PAID FOR AS COMPLY EXACTLY WITH WRITTEN DESCRIPTION. WHEN SHIPPED VIA COMMON CARRIER, MAIL SHIPPING NOTICE DIRECTLY TO RECEIVING POINT. CASH TERMS DATE FROM RECEIPT AND ACCEPTANCE OF GOODS AND CORRECT INVOICE. PATENTS-CONTRACTORS SHALL PROTECT AND INDEMNIFY AGAINST EXPENSE OF ANY NATURE, SHALL BEAR COST OF ANY SUITS WHICH MAY ARISE, AND SHALL PAY ALL DAMAGES WHICH MAY BE AWARDED AGAINST THE CITY FOR THE USE UNDER THIS SPECIFICATION OF ANY PATENTED DEVICE, PROCESS, APPARATUS, MATERIAL OR INVENTION. THE CITY RESERVES THE RIGHT TO AUDIT EMPLOYEE PAYROLL RECORDS TO VERIFY LABOR CHARGES UPON 72 HOURS NOTICE.

**Total** 7,499,999.00

*Bozpie Jackson*  
 PURCHASING DIRECTOR'S SIGNATURE  
 NOT VALID WITHOUT AUTHORIZED SIGNATURE



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**Purchase Order**

PURCHASE ORDER NO. 2914367 REVISION 0 PAGE 2

THE ABOVE NUMBER MUST APPEAR ON ALL INVOICES AND SHIPMENTS.

SHIP TO

13331 Lyndon  
 Detroit, MI 48227  
 United States

BILL TO

Coleman A Young Municipal Ce  
 2 Woodward Avenue  
 Ste 642  
 Detroit, MI 48226  
 United States

**SUPPLIER**

MOTOROLA SOLUTIONS INC  
 1301 E ALGONQUIN RD  
 SCHAUMBURG, IL 60196

SUPPLIER NO. 1113274	DATE OF ORDER/BUYER 21-SEP-15 M Sullivan	REVISED DATE/BUYER
PAYMENT TERMS Net 30	SHIP VIA Unspecified	F.O.B. Delivered
FREIGHT TERMS Account of seller	REQUESTOR/DELIVER TO	CONFIRM TO / TELEPHONE T COPPA (734) 362-8272

LINE	ITEM NUMBER / DESCRIPTION	DELIVERY DATE	QUANTITY	UNIT	UNIT PRICE	EXTENSION	TAX
	payment: a) Price on invoice must correspond to the pricing listed on purchase order and/or contract. b) Contractor must submit price lists in accordance with bid requirements. c) Original invoice must be submitted to the appropriate City of Detroit Account's Payable Section. d) Copy of invoice must be submitted to the department personnel identified on the purchase order as being responsible for processing payment. If a department contact person is not listed on the purchase order the vendor shall request in writing, from the Purchasing Division the name and phone number of the contact person responsible for processing payment.						
	Purchase Agreement	Effective From: 30-SEP-15 To: 29-SEP-17			Amount Agreed:	7,499,999.00	

CONTRACTS AND PURCHASES BETWEEN THE VENDOR AND THE CITY OF DETROIT ARE SUBJECT TO FEDERAL, STATE AND LOCAL LAWS INCLUDING, BUT NOT LIMITED TO, EQUAL EMPLOYMENT OPPORTUNITY AND AFFIRMATIVE ACTION • THE CITY MAY TERMINATE THE CONTRACT FOR CAUSE OR CONVENIENCE • NO CHANGES EFFECTIVE UNLESS AGREED TO IN WRITING BY CONTRACT AMENDMENT • ONLY SUCH GOODS WILL BE PAID FOR AS COMPLY EXACTLY WITH WRITTEN DESCRIPTION • WHEN SHIPPED VIA COMMON CARRIER, MAIL SHIPPING NOTICE DIRECTLY TO RECEIVING POINT • CASH TERMS DATE FROM RECEIPT AND ACCEPTANCE OF GOODS AND CORRECT INVOICE • PATENTS-CONTRACTORS SHALL PROTECT AND INDEMNIFY AGAINST EXPENSE OF ANY NATURE, SHALL BEAR COST OF ANY SUITS WHICH MAY ARISE, AND SHALL PAY ALL DAMAGES WHICH MAY BE AWARDED AGAINST THE CITY FOR THE USE UNDER THIS SPECIFICATION OF ANY PATENTED DEVICE, PROCESS, APPARATUS, MATERIAL OR INVENTION • THE CITY RESERVES THE RIGHT TO AUDIT EMPLOYEE PAYROLL RECORDS TO VERIFY LABOR CHARGES UPON 72 HOURS NOTICE.

**Total** 7,499,999.00

PURCHASING DIRECTOR'S SIGNATURE  
 NOT VALID WITHOUT AUTHORIZED SIGNATURE

**Detroit City Council**  
Legislative Policy Division

TO: Purchasing Division Staff  
FROM: David Teeter  
DATE: September 23, 2015

RE: **PURCHASING ITEMS APPROVED BY THE CITY COUNCIL**

There were no contracts, approved at the September 15, 2015 Session, requested to be Reconsidered.

*The following contracts and purchase orders were reported to the City Council by the indicated Standing Committee, at the Regular Session of September 22, 2015 and APPROVED*

**Reported by the Finance, Budget and Audit Committee:**

No Contracts Reported

**Reported by the Internal Operations Committee:**

2898660,Amend.1          Pinnacle Actuarial Services          + \$30,000 to \$105,000          LAW  
Submitted in the List and Referred September 8, 2015.

87159,Amend.1          Paris Powell (Cushingberry)          + \$2,944 to \$16,640          CITY COUNCIL  
Submitted in the List for September 22, 2015; Placed on Consent Agenda; Approved with *WAIVER*

CHE-00303          Chenelle L. Willis (Cushingberry)          \$4,840          CITY COUNCIL  
Submitted in the List for September 22, 2015; Placed on Consent Agenda; Approved with *WAIVER*

2909757          Wolverine Solutions Group          \$115,500          ELECTIONS  
Submitted in the List for September 22, 2015; Moved to New Business and Approved

**Reported by the Neighborhood and Community Services Committee:**

2908597          W-3 Construction Co. (Butzel & Williams)          \$2,446,717.09          RECREATION  
Submitted in the List and Referred September 8, 2015.

87277          Mark Weldon (Coca-Cola Fitness)          \$2,400          RECREATION  
Submitted in the List and Referred September 8, 2015.

87421          Walter Hardman (Coca-Cola Fitness)          \$2,400          RECREATION  
Submitted in the List and Referred September 8, 2015.

Purchasing Division  
Contracts and Purchase Orders Received, Considered at Regular Session  
of September 22, 2015

Page 2

*The following contracts and purchase orders were reported to the City Council by the indicated Standing Committee, at the Regular Session of September 22, 2015 and **APPROVED***

**Reported by the Planning and Economic Development Committee:**

No Contracts Reported

**Reported by the Public Health and Safety Committee:**

2555944,Amend.3 Bishop Real Estate (Lease, 14655 Dexter) + \$669,950 to \$7,336,175 POLICE  
Submitted in the List for the Recess Week of August 10, 2015 and Held.

87341 Ronald Fleming (Ex. Protection, Mayor) \$94,500 POLICE  
Submitted in the List for the Recess Week of Aug. 10, 2014 and Held; Approved with *WAIVER*.

2884809,Amend.2 Institute for Population Health + \$396,220 to \$14,752,220 HEALTH & WELL.  
Submitted in the List for Recess Week of Aug. 17, 2015 and Held; Approved with *WAIVER*.

2884810,Amend.2 Institute for Population Health + \$164,004 to \$7,460,825 HEALTH & WELL.  
Submitted in the List for Recess Week of Aug. 17, 2015 and Held; Approved with *WAIVER*.

2906609,Conf.Req. Motor City Electric \$371,709.34 POLICE  
Submitted in the List for the Recess Week of Aug. 17, 2015; Contract Amount corrected.

2913193 Target Solutions \$61,125 FIRE  
Submitted in the List for the Recess Week of Aug. 31, 2015 and Held.

2865739,Purch.Increase Qualified Abatement + \$40,782 BUILD.SAFE.ENG.&ENV.  
Submitted in the List and Referred July 28, 2015.

2865134,Renew J & B Medical Supplies \$10,500 FIRE  
Submitted in the List and Referred July 28, 2015.

2895811,Amend.1 SE Mich. Health Association \$75,000 HEALTH & WELLN.  
Submitted in the List and Referred July 28, 2015; Approved with *WAIVER*.

87292 Marilyn Berkley (Animal Control) \$97,000 POLICE  
Submitted in the List and Referred July 28, 2015.

Purchasing Division  
Contracts and Purchase Orders Received, Considered at Regular Session  
of September 22, 2015

Page 3

*The following contracts and purchase orders were reported to the City Council by the indicated Standing Committee, at the Regular Session of September 22, 2015 and **APPROVED***

**Reported by the Public Health and Safety Committee:** *continued*

2830398,Amend.2	Detroit Building Authority	+\$650,000 to \$2,100,000	PUB.WORKS
Submitted in the List and Referred July 28, 2015.			
2910810	Bob Maxey Ford	\$59,227.69	TRANSPORTATION
Submitted in the List and Referred July 14; Approved July 21, 2015; Correction Referred July 28, 2015			
2898443,Renew	Hercules & Hercules	\$33,500	PUBLIC WORKS
Submitted in the List and Referred September 8, 2015.			
2912340,Revenue	Red Metal Recycling	\$34,000	PUBLIC WORKS
Submitted in List and Referred as No. 2907090; Approved July 28, 2015; Correction to Contract Number Referred Sept. 8, 2015.			
2914367, QOL Fund	Motorola Solutions	\$7,499,999	POLICE
Walked-on to Committee Sept. 21, 2015; Moved to New Business			

*The following contract was reported to the City Council by the indicated Standing Committee, at the Regular Session of September 22, 2015, and requested to be **REFERRED BACK to Committee.***

**Reported by the Public Health and Safety Committee:**

2886496,Amend.1	Ramona H. Pearson	+\$137,875 to \$487,875	HEALTH & WELL.
Submitted in the List of the Recess Week of August 3, 2015; <i>Committee approved 9-14-15.</i>			

Purchasing Division  
Contracts and Purchase Orders Received, Considered at Regular Session  
of September 22, 2015

Page 4

*The following contracts were **REFERRED** on September 22, 2015 to the indicated Standing Committee for consideration and report to the City Council.*

**Referred to Budget, Finance and Audit Committee:**

2911783	Plante & Moran	FINANCE
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**Referred to Internal Operations Committee:**

87288	Tony S. Rumph	GENERAL SERVICES
REB-00470	Rebecca Christensen	MAYOR'S OFFICE

**Referred to Neighborhood and Community Services Committee:**

87283	Steve Hodges (Coca-Cola)	RECREATION
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**Referred to Planning and Economic Development Committee:**

No Contracts Referred

**Referred to Public Health and Safety Committee:**

2912914,Revenue	Center for Innovations	AIRPORT
2912085,Lease	MBPIA Title Holding Corp	HEALTH & WELLNESS
UNI-00342	Robert B. Dunne (EMS-Med.Dir)	FIRE
UNI-00344	Marlo Pryzbyiski (Communica.)	FIRE
KEI-00487	Keith Pendell Hutchings	MUNICIPAL PARKING

*The following are contracts that are currently HELD for review, discussion or report to the Standing Committees:*

**Planning and Economic Development Committee:**

2896965, Amend.1 Heat and Warmth Fund (THAW) + \$100,000 to \$347,589.40 PLAN & DEVELOPT  
Submitted in the List and Referred June 16, 2015; Waiting for Law Opinion on Ethics question

**Public Health and Safety Committee:**

2912044 Wayne County Registrar of Deeds \$120,000 PUBLIC WORKS  
Submitted in the List for the Recess Week of Aug. 10, 2015.

2912431 Heritage Crystal Clean \$121,500 TRANSPORTATION  
Submitted in the List for the Recess Week of Aug. 17, 2015; *Committee approved 9-21-15.*

2912468, Conf. Req. Randy Lane \$31,058 TRANSPORTATION & PARKING  
Submitted in the List for the Recess Week of Aug. 24, 2015; *Committee approved 9-21-15.*

2909352 Industrial Door and Weatherstrip \$220,000 TRANSPORTATION  
Submitted in the List and Referred September 8, 2015; *Committee approved 9-21-15.*



CITY OF DETROIT  
FINANCE DEPARTMENT  
PURCHASING DIVISION

COLEMAN A. YOUNG MUNICIPAL CENTER  
2 WOODWARD AVE., SUITE 1008  
DETROIT, MICHIGAN 48226  
PHONE 313•224•4600  
FAX 313•628•1160  
WWW.DETROITMI.GOV

September 22, 2015

HONORABLE CITY COUNCIL:

## SPECIAL LETTER

### DoIT/PUBLIC SAFETY

2914367      100% City Funding – To Provide Upgrade to Handheld Portable Radios and Console Units, along with Expansion of the Real Time Crime Center – Contractor: Motorola Solutions Inc., Location: 1301 E. Algonquin Road, Schaumburg, IL 60196 – Contract Period: September 30, 2015 through September 29, 2017 – Contract Amount: \$7,499,999.00

The Purchasing Division of the Finance Department recommends contracts as outlined above.

The approval of your Honorable Body and a Waiver of Reconsideration are requested.

Respectfully submitted,

Boysie Jackson  
Chief Procurement Officer

BJ/zh  
cc: Aliyah Sabree  
Lena Willis

**FRC APPROVAL**  
**SEP 28 2015**

BY COUNCIL MEMBER: \_\_\_\_\_

RESOLVED, that Contract(s) #2914367, referred to in the foregoing communication dated September 22, be hereby and are approved.

# City Council Contract Agenda Items Review Checklist

**Reviewer:** (Contracting and Procurement Specialist signs here) **Date Received:** 00/00/2015

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Date: 09/21/2015 Department DoIT/Public Safety Division: Public Safety Radio

Dept Head/Contact Person: Scott Hayes Telephone No: 313 405 8837

Description: Upgrade Handheld radio and console units, along with expansion of the real time crime center  
Brief explanation-function of or need for the goods/services

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Contract No.: 2914367 PO Type: CPO Est. Value: \$ 7,499,999.00

Contract Term (if applicable): 09/30/2015 to 09/29/2017

Funding Source: City: 100% State:     %  
Federal:     % Other:     %

(Documentation must be furnished by the Dept. if anything other than City funding)

Recommended Supplier: Motorola Solutions Required Date: 09/30/2015

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1. The business being awarded is NEW If a renewal, provide justification for renewal: \_\_\_\_\_  
\_\_\_\_\_
2. Was the product or service competitively bid? XXX Yes  No  
**Attach Copy** of Bid Tabulation/Evaluation score sheets as needed  
If the answer to #2 is "NO" explain why there was no competition: \_\_\_\_\_  
\_\_\_\_\_
3. Was a Co-Operative Agreement Considered? XXX Yes  No Co-Operative Name: MiDeal  
If answer to #3 is "No" explain why a Co-Op was not considered: \_\_\_\_\_
4. Were savings achieved?  
 Yes Amount \$2,000,000.00  No

cc SEP 22 2015

5. Does this agreement represent an increase?  
 Variance in unit price only (Current unit price \$0.00 Proposed Unit Price \$0.00)  
 Change in amount/volume of the good or service to be used. \_\_\_\_\_
6. Does the supplier currently provide other goods and services to the City?  Yes  No  
 If yes please list: Manufacturer and Maintenance of existing system
7. Is this good/service used by other departments?  Yes  No  
 If "yes" can this REQ/PAR be combined other department requirements?  Yes  No
8. Is this a service that can be performed by City employees?  Yes  No  
 Is this a service that City employees can be trained to do?  Yes  No

NOTES: Buyer:  
 a. Excluded Parties List / Supplier Award Management Website Reviewed? Yes\_XX No\_\_\_\_

**PLACE ON FINANCIAL REVIEW COMMISSION AGENDA**

**PLACE ON CITY COUNCIL AGENDA**

**REJECT AND NOTIFY DEPARTMENT DIRECTOR:**

SIGNED: Scott Hayes DATE: 09/21/2015  
 (Department)

INFORMATION PROVIDED BY: Scott Hayes

TITLE: Director

PHONE: 313 405 8837

OCT 13 2014



# REQUEST FOR INCOME TAX CLEARANCE

REQUESTING DEPARTMENT DIVISION: \_\_\_\_\_

E MAIL ADDRESS: \_\_\_\_\_

CONTACT NAME: \_\_\_\_\_ PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

Type of Clearance:  New  Renewal (Please submit 30 days prior to submitting bid or expiration date)

**A. Tax:**  
 City of Detroit  
 Income Tax Division  
 Coleman A. Young Municipal Center  
 2 Woodward Avenue, Ste. 512  
 Detroit, MI 48226

**Phone:** (313) 224-3328 or 224-3329  
**Fax:** (313) 224-4588

**Fee:**  
 Individual or  
 Company Name Motorola Solutions, Inc.  
 Address 1303 E. Algonquin Rd.  
 City Schaumburg  
 State IL Zip Code 60196  
 Telephone (734) 362-8272 Fax # (734) 362-8274  
 E-mail Address tony.coppa@motorolasoluti

<b>B. Name of Chief Financial Officer/Authorized Contact Person</b> (include address if different from above) <b>Marshall Davis III</b>	Telephone # <u>(847) 576-5134</u> Fax # <u>(847) 576-0903</u>
Employer Identification or Social Security Number <b>36-1115800</b>	Spouse Social Security Number

Nature of Contract Maintenance-public  
safety communications

BID CONTRACT AMOUNT (if known)  
 Labor: \$ \_\_\_\_\_ Material: \$ \_\_\_\_\_  
 Contract # (if known) 2784781

**C. ALL QUESTIONS MUST BE ANSWERED TO EXPEDITE APPROVAL PROCESS. ANY QUESTION NOT ANSWERED MAY RESULT IN A DENIAL OF INCOME TAX CLEARANCE.**

Check One:  Individual  Corporation  Partnership  Estate & Trust

### INDIVIDUALS ANSWER QUESTIONS 1,2,3,4.

- Have you filed joint returns with spouse during the last seven (7) years? (If yes, include spouse SSN above)  Yes  No
- Are you a student, and/or claimed as a dependent on someone else's tax return?  Yes  No
- Were you employed during the last seven (7) years?  Yes  No
- Were you a resident of Detroit during the last seven (7) years?  Yes  No

### CORPORATIONS AND PARTNERSHIPS ANSWER QUESTIONS 5,6,7.

- Is the company a new business in Detroit? If yes, attach Employer Registration (Form DSS-4).  Yes  No
- Will the company have employees working in Detroit?  Yes  No
- Will the company use sub-contractors or independent contractors in Detroit?  Yes  No

### D. FOR INCOME TAX USE ONLY

Has the contractor complied with the provisions of the City Income Tax Ordinance?

Yes  No   
 Yes  No   
 Yes  No

Signature LUCRETIA JENNINGS  
 Signature LUCRETIA JENNINGS  
 Signature LAMONT FISHER  
 INCOME TAX INVESTIGATOR

SEP 20 2013  
 OCT 31 2013  
 NOV 12 2014  
 Expires OCT 31 2014  
 Expires NOV 12 2015

To check the status of a clearance, please call (313) 224-3328 or (313) 224-3329  
 VISIT OUR WEBSITE FOR INFORMATION AND TAX FORMS AT [www.cldetroit.mil.us](http://www.cldetroit.mil.us)

NOTE: An approved Income Tax Certificate may be used in multiple city wide departments that require a bid.

**CITY OF DETROIT**  
**ACCOUNTS RECEIVABLE CLEARANCE APPLICATION**  
 2 WOODWARD AVENUE, SUITE 105, COLEMAN A YOUNG MUNICIPAL CENTER  
 REVENUE COLLECTIONS UNIT (313) 224-4087 / FAX: 224-4238 / [RevenueCollections@DetroitMI.gov](mailto:RevenueCollections@DetroitMI.gov)

SECTION A:  BUSINESS LICENSE  BUDGET  CITY COUNCIL  DDOT  DPW  FINANCE  FIRE  HEALTH  
 HUMAN RIGHTS  LAW  MAYOR  OMBUDSMAN  PLANNING & DEVELOPMENT  POLICE  PURCHASING  
 RECREATION  WATER & SEWAGE  OTHER \_\_\_\_\_

ADDRESS OF DEPARTMENT CAYMC Suite 1008  
 DATE SENT 9/15/15 CONTACT PERSON Michael Sullivan  
 PHONE NUMBER 313-224-0959 FAX NUMBER \_\_\_\_\_ EMAIL [Sullivanm@detroitmi.gov](mailto:Sullivanm@detroitmi.gov)  
 CONTRACT AMOUNT \$7,500,000

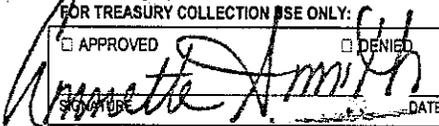
SECTION B: CORPORATION LICENSE TYPE \_\_\_\_\_  
 CORPORATION NAME Motorola  
 ADDRESS 1303 E. Algonquin Road CITY/STATE/ZIP Schaumburg, IL 60196  OWN  LEASE  
 CITY PERSONAL PROPERTY NUMBER \_\_\_\_\_ FID / EIN NUMBER 36-1115800  
 OTHER CITY-OWNED PROPERTY PARCELS \_\_\_\_\_  
 CONTACT PERSON Tony Coppa PHONE NUMBER 734-362-8272 EMAIL ADDRESS [Tony.Coppa@motorolasolutions.com](mailto:Tony.Coppa@motorolasolutions.com)

SECTION C: PARTNERSHIP LICENSE TYPE \_\_\_\_\_  
 BUSINESS NAME \_\_\_\_\_  
 BUSINESS ADDRESS \_\_\_\_\_ CITY/STATE/ZIP \_\_\_\_\_  OWN  LEASE  
 CITY PERSONAL PROPERTY NUMBER \_\_\_\_\_ FID / EIN NUMBER \_\_\_\_\_  
 A. PARTNER'S NAME \_\_\_\_\_ PHONE NUMBER \_\_\_\_\_  
 HOME ADDRESS \_\_\_\_\_ CITY/STATE/ZIP \_\_\_\_\_  OWN  LEASE  
 DRIVER'S LICENSE # \_\_\_\_\_ OTHER CITY-OWNED PROPERTY PARCELS \_\_\_\_\_  
 B. PARTNER'S NAME \_\_\_\_\_ PHONE NUMBER \_\_\_\_\_  
 HOME ADDRESS \_\_\_\_\_ CITY/STATE/ZIP \_\_\_\_\_  OWN  LEASE  
 DRIVER'S LICENSE # \_\_\_\_\_ OTHER CITY-OWNED PROPERTY PARCELS \_\_\_\_\_  
 CONTACT PERSON \_\_\_\_\_ PHONE NUMBER \_\_\_\_\_ EMAIL ADDRESS \_\_\_\_\_

SECTION D: SOLE PROPRIETORSHIP LICENSE TYPE \_\_\_\_\_  
 BUSINESS NAME \_\_\_\_\_  
 BUSINESS ADDRESS \_\_\_\_\_ CITY/STATE/ZIP \_\_\_\_\_  OWN  LEASE  
 CITY PERSONAL PROPERTY NUMBER \_\_\_\_\_ FID / EIN NUMBER \_\_\_\_\_  
 OWNER'S NAME \_\_\_\_\_ DRIVER'S LICENSE # \_\_\_\_\_ PHONE NUMBER \_\_\_\_\_  
 HOME ADDRESS \_\_\_\_\_ CITY/STATE/ZIP \_\_\_\_\_  OWN  LEASE  
 OTHER CITY-OWNED PROPERTY PARCELS \_\_\_\_\_  
 EMAIL ADDRESS \_\_\_\_\_

SECTION E: PERSONAL SERVICES  
 NAME \_\_\_\_\_ ADDRESS \_\_\_\_\_  
 CITY/STATE/ZIP \_\_\_\_\_  
 PHONE NUMBER \_\_\_\_\_ DRIVER LICENSE # \_\_\_\_\_  
 OTHER PROPERTY ADDRESSES OWNED IN WITHIN DETROIT \_\_\_\_\_  
 SOCIAL SECURITY NUMBER \_\_\_\_\_ EMAIL ADDRESS \_\_\_\_\_

**REVENUE COLLECTIONS**  
**APPROVED**  
**CONTRACT CLEARANCES**

FOR TREASURY COLLECTION USE ONLY:  
 APPROVED  DENIED  
 SEP 18 2015  
 DATE \_\_\_\_\_ CLEARED WITH ATTACHMENTS  
 CLEARANCE VALID UNTIL JAN 15 2016

**COVENANT OF EQUAL OPPORTUNITY**  
**(Application for Clearance - Terms Enforced After Contract is Awarded)**

I, being duly authorized representative of the Motorola Solutions, Inc., (hereinafter "Contractor"), do hereby enter into a Covenant of Equal Opportunity (hereinafter "Covenant") with the City of Detroit, ("hereinafter" City); obligating the Contractor and all sub-contractors not to discriminate against any employee or applicant for employment, training, education, or apprenticeship connected directly or indirectly with the performance of the contract, with respect to his or her hire, promotion, job assignment, tenure, terms, conditions or privileges of employment because of race, color, religious beliefs, public benefit status, national origin, age, marital status, disability, sex, sexual orientation, or gender identity or expression.

I understand that it is my responsibility to ensure that all potential sub-contractors are reported to the City of Detroit Human Rights Department and have a current *Contract Specific* Clearance on file prior to working on any City of Detroit contract. I further understand that the City of Detroit reserves the rights to require additional information prior to, during, and at any time after the Clearance is issued.

Furthermore, I understand that this covenant is valid for the life of the contract and that a breach of this covenant shall be deemed a material breach of the contract and subject to damages in accordance with the City of Detroit Code, Ordinance No. 27-3-2, Section (c).

RFQ/PO No. \_\_\_\_\_

Printed Name of Contractor: Motorola Solutions, Inc.  
(Type or Print Legibly)

Contractor Address: Schaumburg, IL, 60196  
(City) (State) (Zip)

Contractor Phone/E-mail: 847-576-5000 / Jack.Molloy@motorolasolutions.com  
(Phone) (E-mail)

Printed Name & Title of Authorized Representative: John P. Molloy Corporate Vice President

Signature of Authorized Representative: \_\_\_\_\_

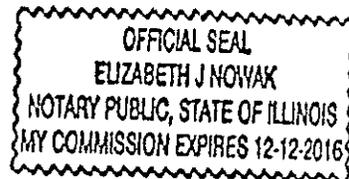
Date: September 18, 2013

\*\*\* This document **MUST** be notarized \*\*\*

Signature of Notary: Elizabeth J. Nowak

Printed Name of Seal of Notary: Elizabeth J. Nowak

My Commission Expires: 12 / 12 / 2016



For Office Use Only:

Cov. Rec'd: 3/12/14 Department Name: POLICE

Accepted by: O. MILHOUSE  Rejected by: \_\_\_\_\_

Please email or fax Covenant and EOC to Director of Human Rights Department 1240 CAYMC  
at [HumanRightsCI@detroitmi.gov](mailto:HumanRightsCI@detroitmi.gov) or fax (313) 224-3434



# CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)  
06/11/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Aon Risk Services Central, Inc. Chicago IL Office 200 East Randolph Chicago IL 60601 USA	<b>CONTACT NAME:</b> <b>PHONE (A/C. No. Ext):</b> (866) 283-7122 <b>FAX (A/C. No.):</b> (800) 363-0105		
	<b>E-MAIL ADDRESS:</b>		
<b>INSURED</b> Motorola Solutions, Inc. Attn Karen Napier 1303 East Algonquin Road Schaumburg IL 60196 USA	<b>INSURER(S) AFFORDING COVERAGE</b>		<b>NAIC #</b>
	INSURER A: Liberty Mutual Fire Ins Co		23035
	INSURER B: Liberty Insurance Corporation		42404
	INSURER C:		
	INSURER D:		
	INSURER E:		
INSURER F:			

<b>COVERAGES</b>	<b>CERTIFICATE NUMBER: 570058028578</b>	<b>REVISION NUMBER:</b>
------------------	---	-------------------------

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. Limits shown are as requested

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			T82641005169075	07/01/2015	07/01/2016	EACH OCCURRENCE \$5,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$250,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$5,000,000 GENERAL AGGREGATE \$5,000,000 PRODUCTS - COMP/OP AGG \$5,000,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS			AS2-641-005169-015	07/01/2015	07/01/2016	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED    RETENTION						EACH OCCURRENCE AGGREGATE
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			WA764D005169085 All other States WC7641005169095 WI	07/01/2015	07/01/2016	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE-EA EMPLOYEE \$1,000,000 E.L. DISEASE-POLICY LIMIT \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
Re: Contract #2900062 with Motorola Solutions - The City of Detroit is included as Additional Insured under the Commercial General Liability policy. The Commercial General Liability policy is primary and non-contributory.

**CERTIFICATE HOLDER****CANCELLATION**

City of Detroit 1301 Third Avenue, 7S - Suite 751 Detroit MI 48226 USA	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE  <i>Aon Risk Services Central, Inc.</i>
--	---

Holder Identifier :

Certificate No : 570058028578



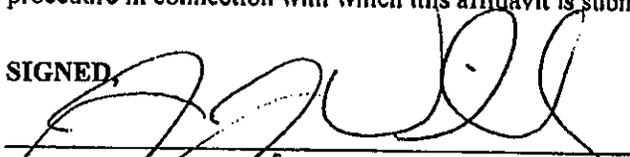
# Hiring Policy Compliance Affidavit

I, Jason J. Winkler, being duly sworn, state that I am the VP, Finance  
North America of Metasol Solutions Inc  
Title Name of Bidder Corporation or Other Business Entity

and that I have reviewed the hiring policies of this employer. I affirm that these policies are in compliance with the requirements of Article V, Division 6 of the Detroit City Code of 1984, being Sections 18-5-81 through 18-5-86 thereof. I further affirm that this employer will not inquire or consider the criminal convictions of applicants for employment needed to fulfill the terms of any City contract that may result from the competitive procedure in connection with which this affidavit is submitted, until such times as the employer interviews the applicant or determines that the applicant is qualified.

In support of this affidavit, I attach a copy of the application form that will be used to hire employees needed to fulfill the terms of any City contract that may result from the competitive procedure in connection with which this affidavit is submitted.

SIGNED,

  
Title: VP Finance NA, Date: Jan 8 2015

STATE OF ILLINOIS )  
COUNTY OF COOK ) SS

The foregoing Affidavit was acknowledged before me the 8<sup>th</sup> day of January  
20 15, by Jason J. Winkler

Notary Public, County of COOK

State of ILLINOIS

My commission expires: 12/7/15

Catherine M. Masterson



# Submit CV/Resume

New Search Refine Search Return to Search Results View My Account View Job Cart (0)

You are applying for this job:

**Senior Account Manager (111562) UNITED STATES - IN -**

N/A

**Bold fields are required.**

**PROGRESS: 33% complete**

The information that you provide will be stored for this session at MotorolaSolutionsCareers.com. If you return to MotorolaSolutionsCareers.com in a separate session, you may again be solicited for this information.

Desired Position Type

Current Manager

Current Grade Level

Current Job Title

**Please answer the following questions:**

**If you have applied to a job outside the United States, please answer the following question:**

Are you authorized to work in the country selected for an indefinite period of time without restrictions?

**If you have applied to a job in the United States, please answer the following question:**

Do you currently have unrestricted employment authorization that will allow you to work with any employer in the U.S.? (For example, if you have non-immigrant status E, F, H., J, L, or TN, then your answer to this question should be NO).

Graduation Date

Month  Day   
Year

**Most Recent Institution Attended?**

Country of Institution

Institution

If Institution is not found on the above list, please select "Other" and type name here.

Field of Study/Specialty

Degree Type

The following field is optional, but are highly desired from students pursuing a position with Motorola Solutions

Grade Point Average (If applicable)

You are applying for this job:



Senior Account Manager (111562) UNITED STATES - IN -  
N/A

PROGRESS: 33% complete

**Bold fields are required.**

The information that you provide will be stored for this session at MotorolaSolutionsCareers.com. If you return to MotorolaSolutionsCareers.com in a separate session, you may again be solicited for this information.

Desired Position Type

Current Manager

Current Grade Level

Current Job Title

**Please answer the following questions:**

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Are you authorized to work in the country selected for an indefinite period of time without restrictions?

**If you have applied to a job in the United States, please answer the following question:**  
Do you currently have unrestricted employment authorization that will allow you to work with any employer in the U.S.? (For example, if you have non-immigrant status E, F, H, J, L, or TN, then your answer to this question should be NO).

Graduation Date Month  Day   
Year

**Most Recent Institution Attended?**

Country of Institution

Institution

If Institution is not found on the above list, please select "Other" and type name here.

**Field of Study/Specialty**

This field is required.

**Degree Type**

This field is required.

The following field is optional, but are highly desired from students pursuing a position with Motorola Solutions

Grade Point Average (If applicable)

# Submit CV/ Resume

[New Search](#) [Refine Search](#) [Return to Search Results](#) [View My Account](#) [View Job Cart \(0\)](#)

You are applying for this job:

**Senior Account Manager (111562) UNITED STATES - IN - N/A**

**PROGRESS: 50% complete**

**Bold fields are required.**

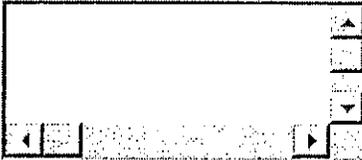
## Submit a Cover Letter

Upload an existing cover letter.

(.doc, .docx, .txt, .rtf, .pdf):

Paste or type your cover letter below

(Special formatting may be lost when you paste your cover letter into the text box.)



## Submit a Resume

Use Resume Builder

Upload an existing resume.

(.doc, .docx, .txt, .rtf, .pdf):

Paste or type your resume below

(Special formatting may be lost when you paste your resume into the text box.)



Save this resume?

Resume name:

Resume will be saved when you submit this job application.

# Submit CV/Resume

New Search Refine Search Return to Search Results View My Account View Job Cart (0)

Your application information will be submitted to the general candidate pool.



PROGRESS: 80% complete

## Submit Supporting Documents

You can attach up to 5 additional documents to your job application for further consideration. Each file can be up to 1,024 KB in size. Please provide a unique name for each file you upload.

Upload file:

Name:

Name:

Name:

Name:

Name:

The following files are accepted for upload: Microsoft Word .doc - .docx, Excel .xls - .xlsx, RTF, TXT, ZIP, Adobe PDF, JPEG, Bit Map, GIF, AVI and MP3.

# Submit CV/Resume

New Search Refine Search Return to Search Results View My Account View Job Cart (0)

Your application information will be submitted to the general candidate pool.

**Bold fields are required.**

PROGRESS: 100% complete

**Commerce ID**

**First/Given Name**

**Last/Family Name**

**Address**

**Country**

**City**

**State/Province**

**Postal Code**

**Primary Email**

**Home Telephone**

**Work Telephone**

**Mobile Telephone**

**Best Way to Contact You**

---

**Desired Position Type**

**Current Manager**

**Current Grade Level**

**Current Job Title**

**Are you authorized to work in the country selected for an indefinite period of time without restrictions?** No

**Do you currently have unrestricted employment authorization that will allow you to work with any employer in the U.S.?** No

**Country of Institution** United States

**Institution**

**If Institution is not found on the above list, please select "Other" and type name here.**

**Field of Study/Specialty** Computer Engineering

**Degree Type** Bachelors / Degree

**Grade Point Average (If applicable)**

---

**Cover Letter**

XX

**Resume**

XX

---

**Additional Documents**

Submit

**CITY OF DETROIT**  
**SLAVERY ERA RECORDS AND INSURANCE DISCLOSURE AFFIDAVIT**

1. Name of Contractor: Motorola Solutions, Inc.  
2. Address of Contractor: 1303 East Algonquin Road  
Schaumburg, IL 60196

3. Name of Predecessor Entities (if any): Motorola, Inc.

4. Prior Affidavit submission?  No  Yes, on: June 27, 2012  
(Date of prior submission)

If "No", complete Items 5 and 6.

If "Yes", list date of prior submission above, go to Item 6 and execute this Affidavit.

5.  Contractor was established in \_\_\_\_\_ (year) and did not exist during the slavery era in the United States, is not a successor in interest to any entity that existed during such time, and therefore has no relevant records to search, or any pertinent information to disclose.

Contractor has searched their records and those of any predecessor entity, and has found no records that they or any predecessor(s) made any investments in, or derived profits from the slave industry or from slave holder insurance policies.

Contractor has found records that they or their predecessor(s) made investments in, or derived profits from, the slave industry or slave holder insurance policies. The nature of the investment, profits, or insurance policies, including the names of any slaves or slave holders, is disclosed in the attached document(s).

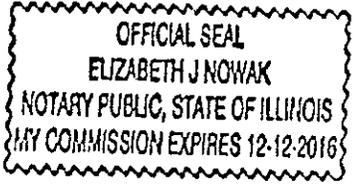
6. I declare that the representations made in this Affidavit are accurate to the best of my knowledge and are based upon a diligent search of records in the Contractor's possession or knowledge. All documentation attached to this Affidavit reflects full disclosure of all records that are required to be disclosed to the City of Detroit. I also acknowledge that any failure to conduct a diligent search, or to make a full and complete disclosure, shall render this contract voidable by the City of Detroit.

John P. Molloy (Printed Name) Corporate Vice President (Title)

[Signature] (Signature) September 18, 2013 (Date)

Subscribed and sworn to before me  
this 18th day of September 2013

Elizabeth J. Nowak  
Notary Public, Cook County, Michigan Illinois  
My Commission expires: 12-12-2016



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PASSWORD

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# Entity Dashboard

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- ▶ [Core Data](#)
- ▶ [Assertions](#)
- ▶ [Reps & Certs](#)
- ▶ [POCs](#)
- ▶ [Reports](#)
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- ▶ [Active Exclusions](#)
- ▶ [Inactive Exclusions](#)
- ▶ [Excluded Family Members](#)

[RETURN TO SEARCH](#)

MOTOROLA SOLUTIONS, INC.  
 DUNS: 069373090 CAGE Code: 78205  
 Status: Active

7031 COLUMBIA GATEWAY DR FL 3  
 COLUMBIA, MD, 21046-2583,  
 UNITED STATES

Expiration Date: 04/14/2016  
 Purpose of Registration: All Awards

## Entity Overview

### Entity Information

**Name:** MOTOROLA SOLUTIONS, INC.  
**Business Type:** Business or Organization  
**POC Name:** Kelly Loughery  
**Registration Status:** Active  
**Activation Date:** 04/15/2015  
**Expiration Date:** 04/14/2016

### Exclusions

Active Exclusion Records? No



**INTER-OFFICE MEMORANDUM  
TECHNICAL SERVICES**

Date

September 2, 2015

To: Assistant Chief James E. White, Administrative Operations (Through Channels)

Subject: **REQUEST FOR APPROVAL FOR THE DETROIT PLAN OF ADJUSTMENT  
RADIO EQUIPMENT REFRESH YEAR II BY SEPTEMBER 30, 2015**

From: Director Scott Hayes, Technical Services

**ISSUE:**

Should the request for approval for the Detroit Plan of Adjustment II for Radio Subscriber Replacements and Lyndon Dispatch Consoles be approved by September 30, 2015, to receive a **discount of \$1,730,993.00?**

**DISCUSSION:**

The Detroit Plan of Adjustment II project includes replacement of legacy portable radios, and to upgrade existing dispatch consoles for Lyndon Public Safety Dispatch center and accessories. The total cost is **\$7,583,999.00**.

After careful review of our goals and objectives with this entire project, a solution was discovered that would address additional requirements needed that would include replacement equipment for the Real Time Crime Center systems expansion, maintenance and extensions of warranties that we would eventually have to purchased in the very near future to operate efficiently. This alone at a later date would cost an additional \$1,730,993.00, bringing the total cost for the entire project to **\$9,314,992.00**.

However, at this time the proposed Real Time Crime Center solutions are being offered to us at no charge for a subscriber radio and dispatch console order. This is a savings of **\$1,730,993.00**, if the City of Detroit accepts and approves by September 30, 2015. This gives us a **final cost of \$7,499,999.00**, which is cheaper than the original cost for the Radio Subscriber Replacements and Lyndon Dispatch Consoles only. The additional hardware, software, and services along with the savings to the city is an offer we should not hesitate to take advantage of.

**RECOMMENDATION:**

I recommend the approval of this request by the deadline date of September 30, 2015. The city will save money and all of our needs for a successful project will be met.



**SCOTT HAYES**  
Director  
Technical Services

## Detroit Plan of Adjustment II – Project & Cost Summary

Project total for Lyndon dispatch consoles replacement & subscribers (State Contract):	\$7,583,999
Total value for RTCC systems and maintenance as detailed below:	\$1,730,993
Total value of Lyndon dispatch, subscribers and RTCC systems & maintenance:	<b>\$9,314,992</b>
<b><i>For Contract / PO received by September 30, 2015:</i></b>	
Additional discount on MCC7500 dispatch consoles:	(\$84,000)
Value of RTCC systems / maintenance described below at no cost:	(\$1,730,993)
<b>Total value for Detroit for Lyndon dispatch, subscribers, RTCC systems as listed for contract by September 30, 2015:</b>	<b>\$7,499,999</b>

RTCC systems and maintenance offered to Detroit for contract / PO by September 30, 2015:

- Qty (2) Connectors for Tether Feeds from Wayne County Sheriff and MDOC
- Five (5) VMS connectors to supplement existing (4) connectors. After integration of identified VMS systems (Genetec (Detroit & others with federation), Vigilant (Illitch), Milestone (Rock Security), 360, NICEVision (Wayne State), Detroit will have (2) VMS connectors available for future systems integration.
- Quantity of (5) Fixed ALPR (Automatic License Plate Recognition) systems installed at major intersections to enhance City initiative for Traffic Enforcement.
- Replacement cameras at (10) radio tower sites, (2) per site, (1) at Penobscot Building.. Will employ Genetec SV16 at each site for HD recording of video.
- Qty (75) Additional IDP Users for Total of (100) With 2 Year Subscription.
- Qty (1) One Year Digital Stakeout Subscription.
- Replace (6) PTZ Security Cameras at Lyndon.
- Qty (1) RIC / IDP System Implementation & Engineering Services. Years 3-5 Maintenance on Phase I & 5 Years on Phase II RIC / IDP Systems

Motorola Solutions, Inc.  
6500 Centurion Drive, Suite 250  
Lansing, MI 48917

Phone: 734-362-8272  
tony.coppa@motorolasolutions.com

August 14, 2015

Scott Hayes, Director  
Technical Services Bureau  
City of Detroit Police Department  
13331 Lyndon Street  
Detroit, MI 48227

**Subject: Proposal for P25 Radio Subscriber Replacements & Lyndon Dispatch Consoles**

Dear Director Hayes,

Motorola Solutions, Inc. is pleased to provide the City of Detroit with the enclosed proposal to replace legacy Police Department portable radios, and to upgrade existing dispatch consoles for Lyndon Public Safety Dispatch center as listed. After carefully reviewing your goals and objectives, the Motorola project team has taken great care to propose a solution that will address your needs and provide exceptional value.

Motorola's solution includes a combination of hardware, software, and services. Specifically this proposal provides:

- (1415) APX6000 Model 2.5 Portable Radios & Accessories
- (14) MCC7500 IP Dispatch Consoles & IP Logger
- Expansion & additional functionality for the Real Time Crime Center as described in this proposal

The proposed RTCC solutions are offered to Detroit at no charge for a subscriber radio & dispatch console order as listed by September 30, 2015 and shipped to Detroit by October 3, 2015.

The City of Detroit may accept this proposal by issuing a Purchase Order referencing this proposal and the terms and conditions of the State of Michigan MiDEAL Contract # 071B2200101.

Motorola's proposal and pricing is valid thru September 30, 2015. Motorola would be pleased to address any questions the City of Detroit may have regarding the proposal by contacting Tony Coppa, Motorola Senior Account Manager, at 734-362-8272.

We thank you for the opportunity to furnish the City of Detroit with our communications solutions and we hope to strengthen our relationship by implementing this project. Our goal is to provide you with the best products and services available in the communications industry.

Sincerely,

MOTOROLA SOLUTIONS, INC.



David Walker  
MSSSI Vice President  
North America Government Markets

**KATHRYN ANDERSON - RE: Plan of Adjustment II**

---

**From:** Tony Coppa<tony.coppa@motorolasolutions.com>  
**To:** Scott Hayes<hayess419@detroitmi.gov>  
**Subject:** RE: Plan of Adjustment II

---

Hi Scott,

Please ask Procurement to include the following language on the PO;

*'Pricing, terms, and conditions per the State of Michigan MiDEAL Contract # 071B2200101.  
Scope of Work per the Motorola proposal dated 08/14/2015'*.

We are making preparations to pre-build the subscriber portion of the project. This is to ensure we are able to ship the products by October 3 per the incentive offer. We will need the PO to release the order, so hopefully we can have Procurement ready to hit the print button for the PO immediately following FRC approval on 9/28. Please let me know if I can help in any way to keep things progressing. Thanks Scott.

Regards,

**Tony Coppa**  
**Senior Account Manager**  
**Motorola Solutions, Inc.**

[motorolasolutions.com](http://motorolasolutions.com)

O: [734.362.8272](tel:734.362.8272)

M: [313.402.5556](tel:313.402.5556)

E: [tony.coppa@motorolasolutions.com](mailto:tony.coppa@motorolasolutions.com)



Learn about [Michigan's Public Safety Communications System \(MPSCS\)](http://michigan.gov/mpscs), the State of Michigan mission critical communications system: <http://michigan.gov/mpscs>

---

**From:** Scott Hayes [mailto:[hayess419@detroitmi.gov](mailto:hayess419@detroitmi.gov)]  
**Sent:** Tuesday, August 11, 2015 1:09 PM  
**To:** [tony.coppa@motorolasolutions.com](mailto:tony.coppa@motorolasolutions.com)  
**Subject:** RE: Plan of Adjustment II

# LYNDON DISPATCH



The design, technical, pricing, and other information ("Information") furnished with this submission is proprietary information of Motorola Solutions, Inc. ("Motorola") and is submitted with the restriction that it is to be used for evaluation purposes only. To the fullest extent allowed by applicable law, the Information is not to be disclosed publicly or in any manner to anyone other than those required to evaluate the Information without the express written permission of Motorola.

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# CONSOLES/SUBSCRIBERS SYSTEM DESCRIPTION

## 1.1 OVERVIEW

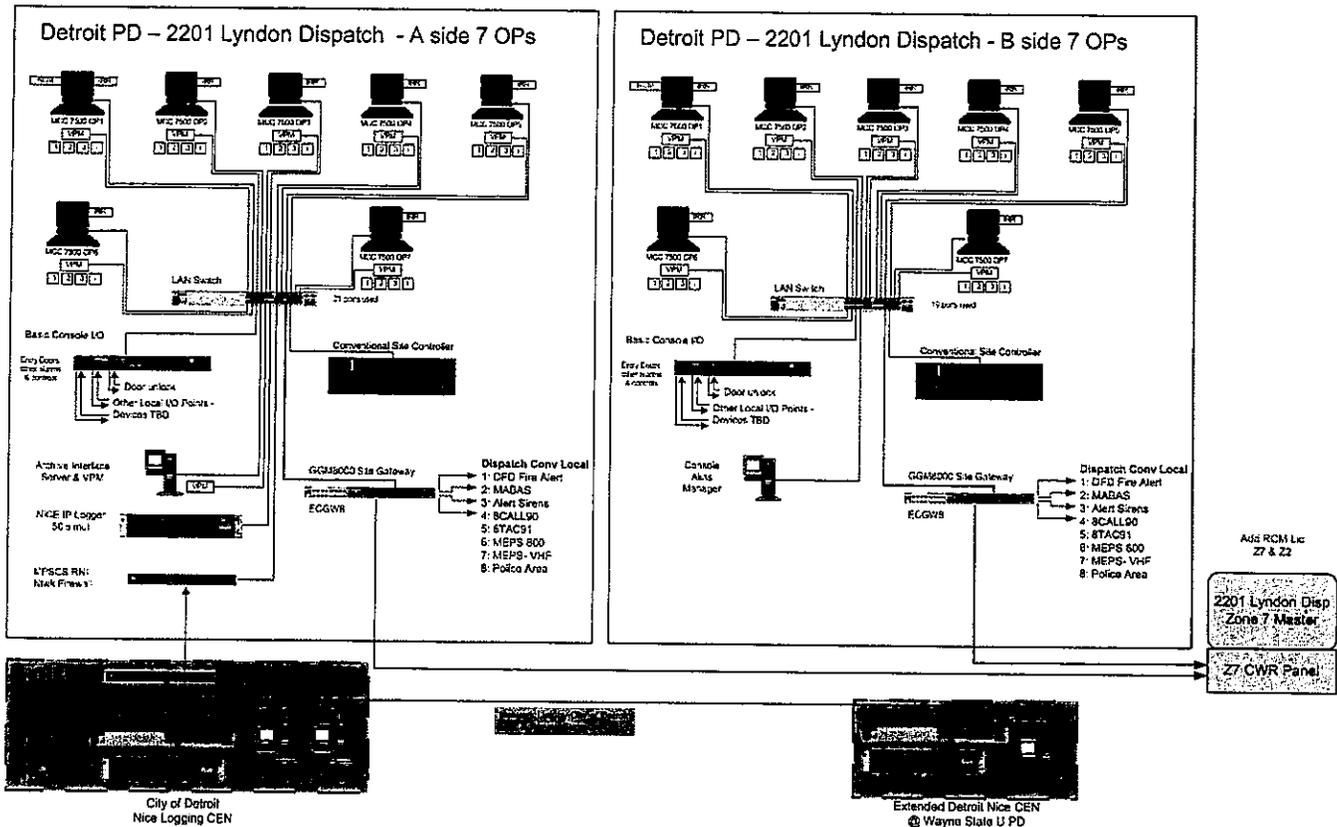
The Detroit Lyndon Dispatch Center console technology enhancement project is comprised of two major areas:

1. Motorola Dispatch Console Equipment – This quotation is for a technology upgrade replacement of the existing twenty-five Motorola Gold Elite radio console position electronics with 14 new Motorola MCC 7500 IP-based operator positions, and replacement of the existing Central Electronics Banks with IP network hardware to support both trunking and conventional operations on MPSCS.
2. Conventional Stations Network Reconfiguration – Motorola will incorporate eight existing conventional base stations for MPSCS backup and city police and fire networks identified in this proposal into the IP-based consoles in a redundant fashion. Additional stations can be accommodated at nominal additional cost, in multiples of four, and in either redundant or non-redundant configurations.

The replacement and upgrade is designed to be minimally intrusive to the existing radio dispatch operations. This equipment upgrade utilizes newer technologies of IP-based consoles and digital logging for your trunking and conventional radio channels which are compatible with operations on the existing Michigan statewide network.

Below is a simple block diagram of the infrastructure configuration that Motorola proposes for Detroit Lyndon Dispatch. It consists of two duplicate electrical console sites operating side by side, which provides increased reliability and operational stability.





This equipment utilizes two independent network connections between the dispatch center and the Zone core equipment which is co-located at Lyndon Dispatch.

## 1.2 DISPATCH CONSOLE EQUIPMENT

Motorola offers Detroit Lyndon a proposal to replace their Gold Elite consoles with the new IP Dispatch Console, MCC 7500+VPM. The MCC 7500 is Motorola's second generation IP architecture console subsystem and is supported by the same IP network and switching that manages the ASTRO 25 trunked network. The MCC 7500 console equipment connects directly to the trunking system's IP transport network, eliminating the former circuit-based Central Electronics Bank and Premisys TeNSr channel banks. It uses IP-based packet protocols to pass call control data and call audio through the system.

The MCC 7500 is a state-of-the-art console system that features the same intuitive, Graphical User Interface (GUI) as Motorola's previous CENTRACOM Gold Elite Console system. The MCC 7500 console application software operates on the Microsoft Windows 7™ platform. The screen layout is simple and uses valuable space efficiently. Key information and critical functions are clearly identified with easy to understand icons. Dispatchers can quickly recognize these icons instead of reading text, which maximizes productivity.

The radio console visual presentation is an enhanced evolution of the Elite system that many dispatch center personnel across the state of Michigan have used in past years. MCC 7500 console equipment has already been installed at numerous locations around the MPSCS network, including Chippewa, Genesee, Kalamazoo, Lapeer, Macomb, Midland, and Saginaw Counties; Michigan State Police Dispatch Centers; the DNR Law Enforcement center in downtown Lansing, and DNR Forestry fire control centers in Roscommon and Marquette.

The MCC 7500+VPM is a state-of-the-art console system that features an enhanced version of the intuitive, Graphical User Interface (GUI) used for Motorola's CENTRACOM Gold Elite Console system. MCC 7500 operates on the Microsoft Windows 7™ platform, and the screen layout is simple and uses valuable space efficiently. Key information and critical functions are clearly identified with easy to understand icons. Dispatchers can quickly recognize these icons instead of reading text which maximizes productivity.

## 1.2.1 Dispatch Console Overview

Detroit Lyndon's migration to MCC 7500 wireline consoles allows for full use of console integrated elements including:

- Console Priority.
- Console Initiated Private Call and Call Alert.
- InterZone Communications (statewide).
  - Talkgroup call.
  - Announcement talkgroups.
  - Private call.
  - Call alert.
  - Multi-group call.
- Console Patch.
- Console Multi-Select.
- Integrated Dual Instant Recall Recorder (IRR) integrated into the computer workstation at each operator position.

The proposal for Detroit Lyndon Dispatch includes a quantity of fourteen operator positions, two conventional backup site controllers, two Enhanced Conventional GateWay (ECGW) interface units, and other networking equipment.

Included with this upgrade is one new computer workstation for each operator position, including new 22" LCD flat panel displays, keyboard, mouse, and trackball. Each new workstation will be equipped with the Microsoft Windows 7 operating system, required for integration into the MPSCS console network. Each dispatcher position will be equipped with secure voice encryption using both the DES-OFB and AES methods defined in the P25 interoperability specifications, along with Motorola's ADP encryption which is used by several Wayne County communities who border City of Detroit. The workstations will include anti-virus software with periodic updates provided by MPSCS. They will be provisioned to resist intrusion and provide increased information security over the city's trunking system and MPSCS statewide radio network.

The MCC 7500+VPM console sub-system is tightly integrated to the ASTRO 25 digital voice system. The operator workstation will be linked with the City of Detroit zone Master site for call audio, identification of calling radios including emergency alerts, and configuration of all display screens and folders.

## 1.3 MCC 7500 VPM FEATURES AND BENEFITS

Designed for effective, flexible dispatch communications, the MCC 7500 VPM Dispatch Console provides a range of valuable features:

- Seamless integration with ASTRO® 25 trunking systems.
- **IP Network** – The MCC 7500 VPM supports the IP protocols of the ASTRO 25 system's transport network.
- **End-to-End Encryption** – Encryption and decryption occurs in the dispatch consoles, allowing true end-to-end encryption in the radio system.
- **Centralized System Management** -- The MCC 7500 VPM console system is configured and managed by the ASTRO 25 system's configuration manager, fault manager, and performance reporting applications. This provides a single point for configuring and managing the entire radio system, including the console portion. This information can also be accessed from multiple remote locations, giving Detroit Lyndon convenient access while enjoying the benefits of centralized system management by the MPSCS.
- **User-Friendly** – MCC 7500 VPM's environment features the familiar standards used by other Windows programs worldwide.
- Screen layout, menus and icons are easy to understand and quickly recognizable by users.
- Easy dispatcher's display screen configuration can be customized via the Elite Admin application.
- **Elite Dispatch GUI** uses a simple point-and-click response. The dispatcher has the choice of using a standard mouse or optional trackball; the keyboard is used for dispatcher logon but is not required for day-to-day dispatch operations.

### 1.3.1 Architecture

There are three main components of a Motorola MCC 7500 VPM system:

- Dispatch console.
- IP routing and site control equipment.
- Conventional Channel Gateway.

Various combinations of these components are connected together and to the rest of the ASTRO 25 system via console site routers and switches on an IP network.

The dispatch console software consists of the Elite Dispatch graphical user interface (GUI), described in this system description. The dispatch console hardware is based on a commercially available personal computer with Motorola-provided hardware and software.

The Motorola-certified personal computer accessories include:

- A wide format high resolution 22 inch LCD display.
- Keyboard and mouse.
- A separate Voice Processing Module (VPM) for audio I/O connections.
- Three (3) desktop speakers (optionally expandable, up to eight).



- Two (2) headset jacks.
- A desktop microphone with built-in transmit button.
- A dual pedal footswitch to activate transmit and channel monitor functions.

The Voice Processor Module (VPM) performs the voice coding and audio processing services for all analog audio flowing into or out of the dispatch console. It includes AMBE and IMBE vocoder algorithms for ASTRO 25 operation, as well as supporting audio level adjustments, summing and filtering, and can support multiple simultaneous streams of audio for up to eight speakers. It also provides connection points for accessory items including speakers, headset jacks, microphone, footswitch, local logging recorder, 911 telephone headset audio, and instant recall recorder for radio. The VPM also generates several different formats of standard analog paging tone sequences used for personnel alerting.

### 1.3.2 Elite Dispatch Graphical User Interface

The Motorola MCC 7500 VPM dispatch console uses the Elite Dispatch graphical user interface (GUI) for displaying information to and accepting commands from the dispatcher. The Elite Dispatch GUI is efficient, easy to use, and intuitive having been refined and proven through years of use in public safety dispatch centers around the world. The Elite GUI is updated and enhanced in every system release to improve flexibility and versatility in public safety dispatch centers with from one to over one hundred operator positions.

An example of the Elite Dispatch GUI is shown below in Figure 1-1.

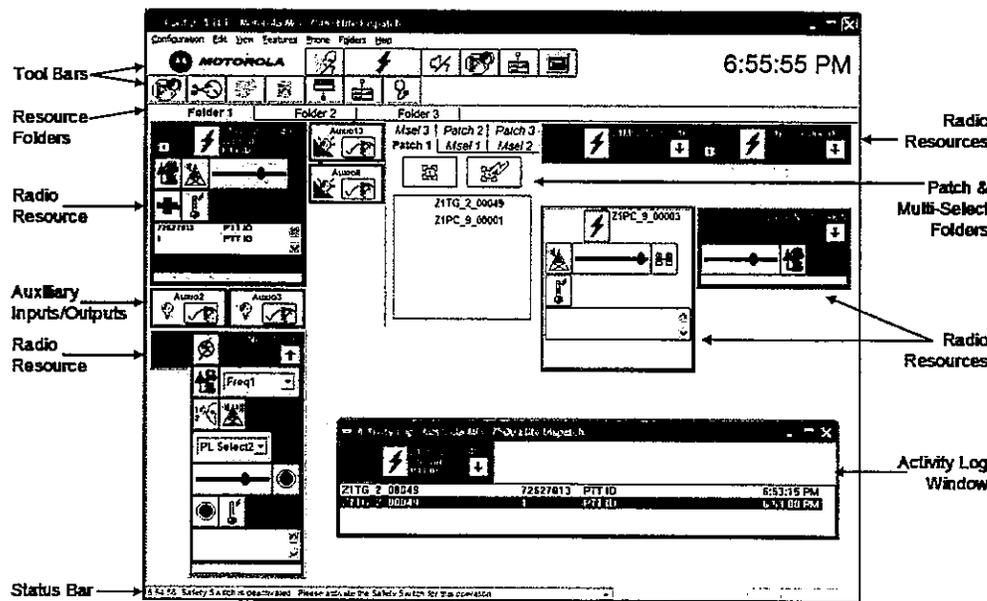


Figure 1-1: Elite Dispatch GUI

The Elite Dispatch GUI is based on Microsoft Windows GUI programming standards and contains many controls, displays and features which are familiar to anyone who has used Windows-based applications. These features are described in greater detail in the following sections.

### 1.3.2.1 Pull-Down Menus

The dispatcher is able to access features and functions through the pull-down menus. The Elite Dispatch GUI provides the following pull-down menus on a menu bar across the top of the dispatch window.

- **Configuration** – Provides access to the configuration files used by the Elite Dispatch GUI. Also allows the dispatch application to be exited.
- **Edit** – Allows various aspects of how audio, resources and features are presented to the user on the Elite Dispatch GUI to be edited. Changes made using this menu are not permanent and are lost when the dispatch application is exited.
- **View** – Allows the dispatcher to control whether or not the Activity Log and Auxiliary I/O Windows are shown.
- **Folders** – Allows the dispatcher to switch between folders, add folders and change the folder tab width. Changes made using this menu are not permanent and are lost when the dispatch application is exited.
- **Help** – Provides access to detailed online help for using the Elite Dispatch GUI.

The user may customize which menus are displayed and what they contain via the Elite Admin application.

### 1.3.2.2 Toolbars

The toolbar is a row of icon buttons located at the top of the dispatch window. Up to two toolbars may be present and may be used to provide quick access to frequently used features. The following are examples of the items which may be placed in the toolbars:

- Clock.
- General transmit button.
- Alert tone selections.
- Monitor button.
- All mute button.

There are many other items which may optionally be placed in the toolbars. The Elite Admin application is used to define how many toolbars are displayed and what they contain.

### 1.3.2.3 Status Line

A status bar is provided across the bottom of the dispatch window for viewing the status of the dispatch console, as well as various error messages. The most current status or error message is displayed in the status line until cleared by the dispatcher. The dispatcher may scroll through the last ten statuses/error messages to view them and may clear them by using the Features menu on the menu bar.



### 1.3.2.4 Resource Folders

The Elite Dispatch GUI provides up to six resource folders for organizing the various resources (radio resources, one-button paging, auxiliary input/output resources, etc.) that are assigned to the dispatch console. These folders may be given descriptive names to simplify the organization of the resources.

The resources on a folder are displayed when the dispatcher clicks on the folder tab. Resources on folders which are hidden behind the one being displayed continue to operate in a normal manner. Radio resource audio on a hidden folder appears in the appropriate speakers/headsets along with a visual call indication on the folder tab. If an emergency alarm or call is received on a radio resource which is located on a hidden folder, a visual emergency indication is displayed on the folder tab.

A resource may be placed in more than one folder at the same time. This allows Detroit Lyndon Dispatch to have folders for special situations without having to move resources back and forth between folders.

The Elite Admin application is used to configure how many folders appear on the Elite Dispatch GUI and which resources appear on each folder. It is also used to set the descriptive names which appear on the folder tabs.

During dispatch operations the dispatcher may, if so configured by the Elite Admin application, be able to temporarily add, remove or move resources on the folders. If this is done these changes are not saved when the user logs out of or changes configuration files for the dispatch application.

#### **Radio Resources**

Voice communication paths in the radio system are represented as radio resources – also referred to as tiles – on the Elite Dispatch GUI. These radio resources are used by the dispatcher to communicate on and control the radio system.

The following radio resources are supported:

- Trunked talkgroups.
- Trunked announcement groups.
- Trunked private calls.
- Analog conventional channels.

#### **Indicators and Controls**

A radio resource contains indicators and controls that allow the dispatcher to monitor and control various aspects of the radio channel. Examples of the indicators and controls which may appear on a radio resource include:

- Instant transmit button.
- Transmit active/transmit busy indications.
- Patch active/patch busy indications.
- Received call indication.
- Received call stack.
- Individual volume control.

The types of indicators and controls which appear on the radio resource depend on the type of radio channel it represents, and how it has been configured in the Elite Admin application. The radio resource may be configured as a compressed resource, a larger compressed resource or an expanded resource.

- **Compressed Resource** – Allows the dispatcher to hide the indicators and controls the radio resource (Figure 1-2). The small arrow button opens and closes the resource to show the controls and indicators. This saves a tremendous amount of space on the screen by allowing the dispatcher to view only the most critical information for any given channel. This type of display is ideal for dispatchers monitoring several different channels where space in the resource folder is at a premium.

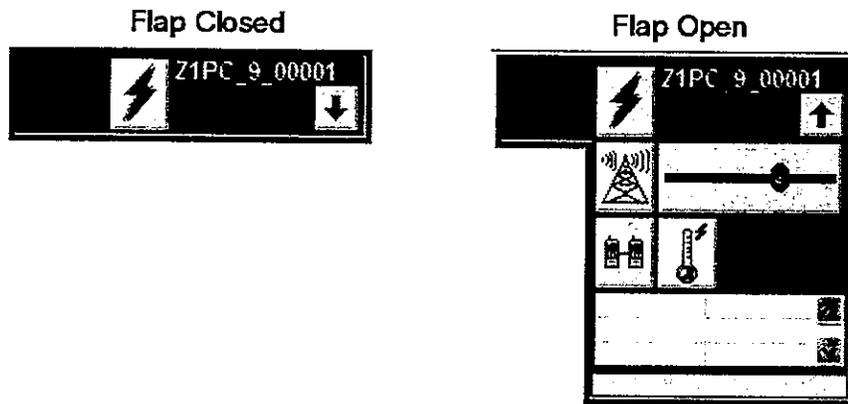


Figure 1-2: Compressed Radio Resource

- **Larger Compressed Resource** – A radio resource that always shows some of the indicators and controls, but allows the dispatch console to hide some of the others (Figure 1-3).

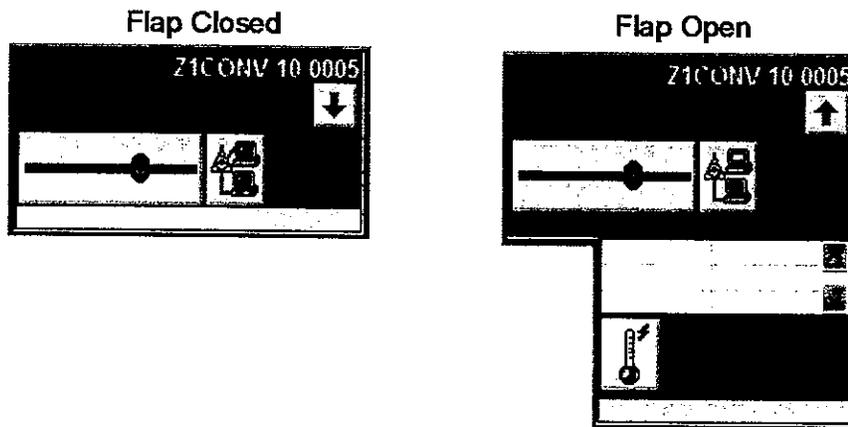


Figure 1-3: Larger Compressed Radio Resource

- **Expanded Resource** – This radio resource always shows the indicators and controls (Figure 1-4) and cannot be compressed. The expanded version provides the advantage of a single-button press for any function. It is ideal for dispatchers who are only monitoring a few channels/talk groups and where space in the resource folder is not at a premium.



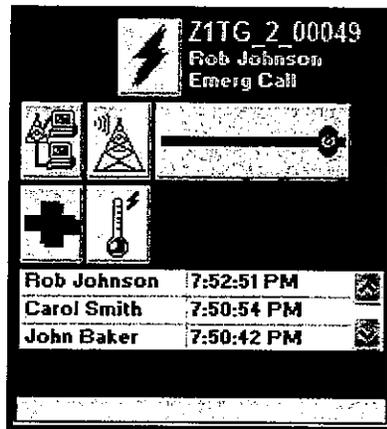


Figure 1-4: Expanded Radio Resource

Any activity or change on a radio resource appears on all dispatch consoles that have that resource assigned on them.

### Received Call Stack

The received call stack provides the dispatcher with a visual record of the most recent inbound calls on radio resources. This allows the dispatcher to keep track of calls during busy traffic periods.

The calls are displayed in list format on a radio resource, with the most recent calls at the top of the list. The number of calls displayed in the list is configurable, as is the type of information displayed. The types of information that can be displayed include: unit ID, unit ID alias, site ID, zone ID, type of call and time. If an alias is available for a piece of information, it is displayed; otherwise the raw information is displayed. Figure 1-5 shows a radio resource containing a received call stack.

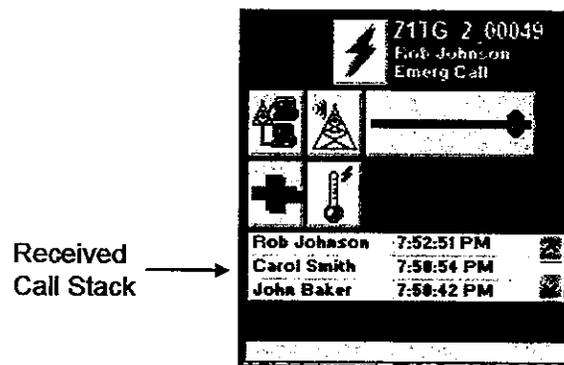


Figure 1-5: Received Call Stack on a Radio Resource

The received call stack has a fixed memory of 25 calls, but the number of calls which are displayed is configurable via the Elite Admin application. Regardless of how many calls are actually displayed, the dispatcher can always scroll through all 25 calls in the stack's memory.

The dispatcher can delete individual calls from the received call stack. All of the calls listed in a received call stack can also be deleted with a single action.

### 1.3.2.5 Auxiliary Input and Output Resources

Auxiliary inputs and outputs (Aux I/Os) allow Detroit Lyndon Dispatch Center to control external devices via relay closures and sense the state of external devices via input buffers from the MCC 7500 VPM Dispatch Console.

The Aux I/O resources are represented by various graphical icons that change their appearance based on the state of the resource. The Elite Admin application is used to associate a particular icon with a specific input or output. Examples of some of the icons which may be used are shown in Figure 1-6.



Icon for Input Buffer (shown in Active State)



Icon for Control Relay (shown in Active State)



Icon for Control Relay (shown in Inactive State)

Figure 1-6: Auxiliary Input/Output Resource Icons

### 1.3.2.6 Patch and Multi-Select Folders

The patch and multi-select features are accessed via a set of dedicated folders on the Elite Dispatch GUI. These folders are smaller than the resource folders, and may be placed on the screen to suit the dispatcher's preferences. The placement is done in the Elite Admin application. There can be up to sixteen patch folders and three multi-select folders.

#### Patch Folders

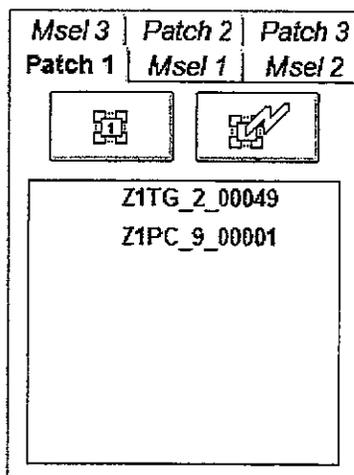


Figure 1-7: Patch Folders

Clicking on one of the patch folder tabs brings it into view. The patch group is then opened by clicking on the left-most button on the folder. Once the patch group is open, the patch group is editable and members may be added or removed from the patch group by clicking on the desired radio resources. Note that patch groups are active whenever there are members assigned to them. This is true even if the patch group is not open.

The members of the patch group are shown on the patch folder along with the status of each member (patched or pending). The resources in the patch also show an indication that they are in a patch group.

Some patch groups contain members which were pre-assigned by the Elite Admin application. These patch groups become active as soon as possible after the dispatch console begins using the configuration file which contains the pre-assigned patch groups.

The dispatcher can add/remove members from the pre-assigned patch group, but these additions/removals are lost when the dispatch console either re-loads the configuration file or changes to a different configuration file.

A patch transmit button is provided on the patch folder to allow the dispatcher to easily transmit on all members of the patch group with a single button press.

### Multi-Select Folder

Clicking on one of the multi-select folder tabs brings it into view. The multi-select group is then opened by clicking on the left-most button on the folder. Once the multi-select group is open, the multi-select becomes active, and members can be added or removed from the group by clicking on the desired radio resources. Closing the multi-select folder (by clicking on the left-most button a second time) deactivates the multi-select group.

**NOTE:** This operation is different than that of the patch folders. A dispatch console can only have one multi-select group active at a time, but it can have multiple patch groups active simultaneously.

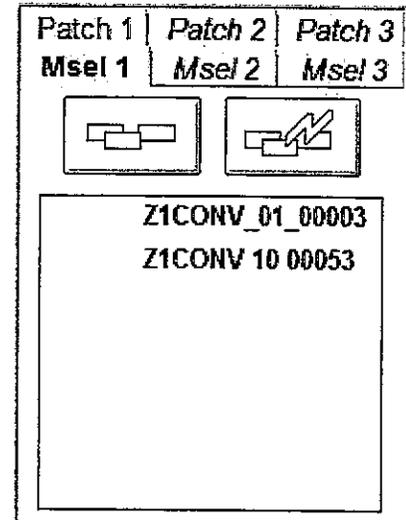


Figure 1-8: Multi-Select Folder

The members of the multi-select group are shown on the multi-select folder.

Some multi-select groups contain members which were pre-assigned by the Elite Admin application. The dispatcher can add/remove members from the pre-assigned multi-select group, but these additions/removals are lost when the dispatch console either re-loads the configuration file or changes to a different configuration file.

### 1.3.2.7 Activity Log Window

The dispatcher can use the activity log window as a point of reference for all calls coming into the dispatch console. The activity log shows call information associated with all incoming radio calls including the name of the radio resource and the time of the call. Incoming calls from all radio resources assigned to the dispatch console are displayed in the activity log.

Figure 1-9 shows an example of an activity log window.

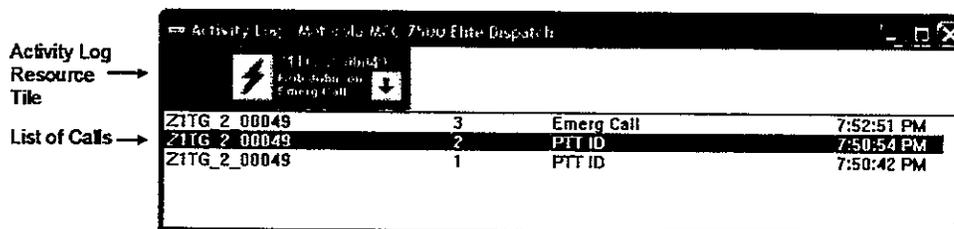


Figure 1-9: Activity Log Window

Up to 1000 calls can be held in the activity log. The most recent call is in top of the list and the oldest is at the bottom. Once the list is filled, the oldest calls are discarded as new calls come in. the dispatcher may resize the activity log to show various numbers of calls. For example, when there is light activity, the dispatcher may choose to only show a few calls. During busy hours, the dispatcher

may view more calls by simply dragging the lower right hand corner of the activity log (making it longer) to see additional calls.

Dispatchers may respond to incoming calls by clicking on a call in the list. Once a call is selected, the entry appears highlighted and the name of the radio resource appears at the top of the activity log. The dispatcher can then press the instant transmit button on the activity log resource tile to communicate with that radio resource.

The information displayed by the activity log can be customized to suit the dispatcher's needs. The activity log can be configured to show combinations of Resource Name, Unit ID or Alias, Status Number or Alias, Receiving Site ID, Receiving Zone ID and Time. This configuration is done via the Elite Admin application and, if so configured, via the dispatcher interface.

The Elite Admin application controls whether or not a dispatch console has the capability of displaying the activity log. If a dispatch console is given the capability, the dispatcher has the ability to view or not view the activity log based on their needs.

The number of lines that are initially displayed by the activity log is configurable via the Elite Admin application or the dispatcher interface. The number of lines that are displayed may also be changed in real time by changing the size of the activity log window. The user can scroll through all the entries in the activity log, even if they cannot all be displayed at once.

### 1.3.2.8 Help

The dispatch console is designed to allow the dispatcher to quickly access information on how to use its features. There are three types of help available to the dispatcher: Online, Micro and Tool Tips.

#### Online Help

Online Help provides detailed information on how to use the dispatch console. The user accesses Online Help via the Help menu on the menu bar. The user can search for topics or key words to quickly find the desired information or the user can use a table of contents to find the information. The information is displayed in a pop-up window on the dispatch user interface.

Online Help allows new dispatchers to shorten their learning curve and more experienced dispatchers to quickly remember how to operate seldom-used features.

#### Micro Help

Micro Help provides information about the state of controls or indicators in a resource tile. When the cursor is placed over a control or indicator on a resource tile, a description of the control or indicator's state is given across the bottom of the resource tile. The text across the bottom of the resource describes the icon the cursor is pointing to.

The text displayed by the Micro Help feature may be edited via the Elite Admin application.

Micro Help allows a dispatcher to view the status of a control or indicator textually instead of graphically.

#### Tool Tips Help

Tool Tips Help provides information about tool bar buttons and menu bar menus to the dispatcher. When the cursor is placed

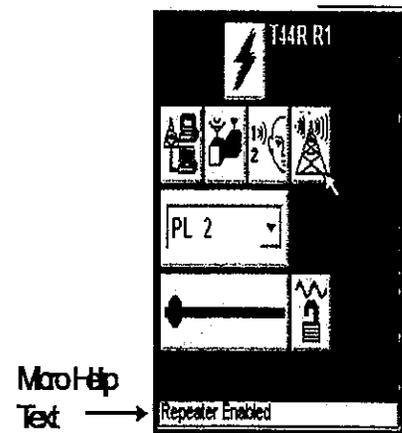


Figure 1-10: Micro Help on a Radio Resource



over a tool bar button, the button's name appears in a small pop-up window next to the cursor, and a short explanation of the button appears in the status bar at the bottom of the dispatch user interface window. When the cursor is moved across a menu item in a menu, a description of the menu item appears in the status bar at the bottom of the dispatch user interface window.

The text displayed by the Tool Tips feature may be edited via the Elite Admin application. Tool Tips allow a dispatcher to quickly see a short explanation of the button or menu item of interest.

### 1.3.3 Elite Admin Application

The Elite Dispatch GUI screens are configured using the Elite Admin application. This application is designed to be extremely flexible and powerful, and allows administrators to build display screens that look very simple with minimal icons and channels, or more sophisticated with many folders and channels. The Elite Admin application allows MPSCS trained and authorized technical support staff to create screens that can be used by multiple dispatchers (accessed over the network), shared by all users of a single position, or even a customized screen per dispatcher. Each screen configuration may optionally be password protected to ensure proper use and control. All of the screen configurations are archived by the state at various network locations for quick retrieval and editing. During emergencies that require dispatch center relocation, this allows a Detroit Lyndon dispatcher to log in at other dispatch console locations on the MPSCS network, view their own customized console layouts, access the same resources, and see their radio identity information.

The state's personnel use the Elite Admin application to perform numerous functions including:

- Create new configurations (for any operator).
- Enable or disable operator positions.
- Modify existing configurations.
- Assign/de-assign radio resources to various folders and determine location.
- Determine audio routing of resources to speakers.
- Set initial volume level of radio and phone resources.
- Determine icons used for AUX I/Os.
- Determine if Auxiliary I/Os are safety switch protected, and whether they have an audible alarm.
- Determine items that should go on the toolbar and where they should be placed.
- Create pre-assigned patch/multi-select/primary groups.
- Create pre-assigned one-button paging tone sequences.
- Determine if the activity log is shown initially and where on the screen it is shown (dispatchers may still hide or show the activity log).
- Assign/de-assign radio and auxiliary input/output resources to various folders.
- Determine where features are placed on each radio resource.
- Determine the size of each radio resource (compressed, larger compressed or expanded).



## 1.4 MPSCS REDUNDANT CORE NETWORKING

The MPSCS zone core equipment already installed at Lyndon includes redundant Master site controllers, system routing centers, LAN switches, and other ancillary equipment, configuration management software and all associated software.

## 1.5 CONVENTIONAL RESOURCE NETWORK INTERFACES

Detroit Lyndon dispatchers presently have communications capability on several analog conventional VHF radio channels in addition to the MPSCS digital P25 trunked radio network. As quoted, up to eight existing conventional stations can be connected into the redundant IP network via Enhanced Conventional GateWay (ECGW) units which translate between the analog audio control information and IP data packets. There are:

- **FIRE:** Detroit Fire Personnel Alerting; Detroit Alert Sirens,
- **INTEROPERABILITY** National Interoperability Channels 8CALL90 and 8TAC91, MABAS Fire Coordination
- **LAW ENFORCEMENT:** MEPS VHF 155.685, MEPS 800 MHz Trunking CS, and Police Area

If additional conventional or control stations need to be accessed from the consoles, Enhanced Conventional GateWay control port capacity can be expanded in blocks of eight ports at nominal additional cost.



# DIAGRAMS

A block diagram and console network rack diagram can be found in this section.



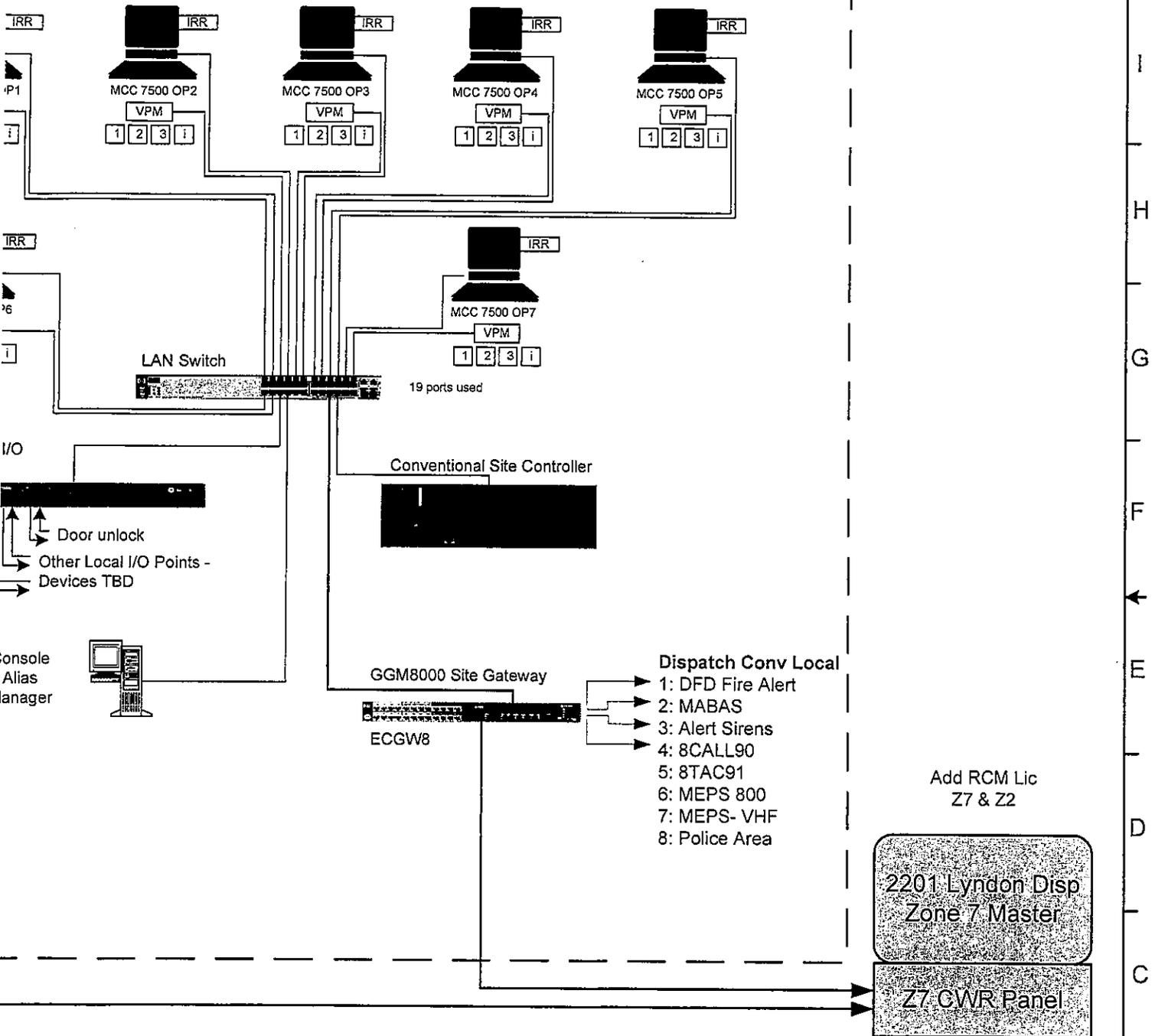
4

3

2

1

# it PD – 2201 Lyndon Dispatch - B side 7 OPs



I/O

- Door unlock
- Other Local I/O Points - Devices TBD

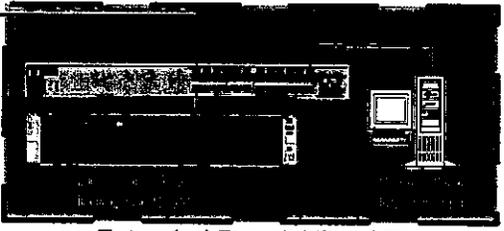
Console Alias Manager

- Dispatch Conv Local
- 1: DFD Fire Alert
  - 2: MABAS
  - 3: Alert Sirens
  - 4: 8CALL90
  - 5: 8TAC91
  - 6: MEPS 800
  - 7: MEPS- VHF
  - 8: Police Area

Add RCM Lic  
Z7 & Z2

2201 Lyndon Disp  
Zone 7 Master

Z7 CWR Panel



Extended Detroit Nice CEN  
@ Wayne State U PD

Project:	Lyndon Dispatch MCC 7500
Title:	2201 Lyndon IPCon Block Diagram
Designed by:	KFB
Date:	2015Jul31-C

WARRANTY

4

3

2

J

I

H

G

F

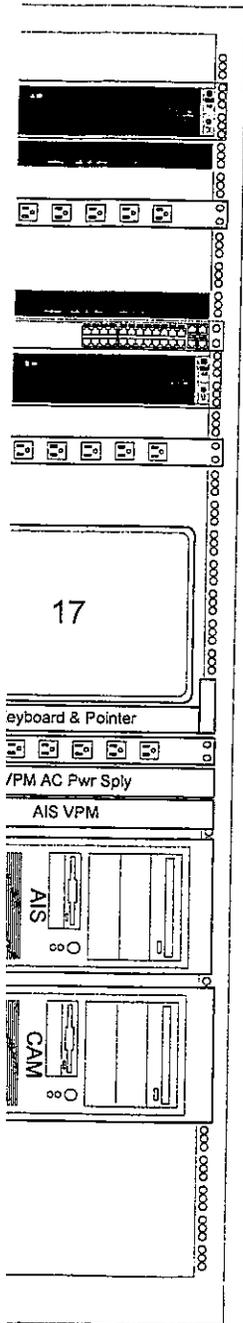
E

D

C

B

A



NICE IP Logger – 50 simul  
 MPSCS RNI Firewall

Detroit NICE GEN Firewall  
 Detroit GEN L3 Switch  
 Detroit NICE Internet Server

KVM-8 with 17" LCD & Keyboard

AC Pwr - on back rail  
 VPM Power Supply Shelf  
 AIS VPM

Rack-mounted AIS CPU

Rack-mounted CAM CPU

Detroit Lyndon MCC 7500 on MPSCS

ing & Ntwk Mgmt

84 – 4 post 78"  
 rack – 36" depth to  
 logging servers

ARY

DATE DRAWN 05/13/2015		
ENGINEERS EJR & KFB	2201 Lyndon Dispatch Console Network Rack Face PRELIMINARY for PROPOSAL	
SOURCE Pre-Sale Engineering		
DRAWN BY KFB	SCALE NONE	Rev B
CUSTOMER APPROVAL	DRAWING NUMBER Rack Riser	REVISED 2015Jul31-C

# CONSOLES/SUBSCRIBERS

# STATEMENT OF WORK

## 3.1 OVERVIEW

This Statement of Work (SOW) describes the deliverables to be furnished to Lyndon dispatch. The tasks described herein will be performed by Motorola, its subcontractors, and Lyndon dispatch to implement the solution described in the System Description. It describes the actual work involved in installation, identifies the installation standards to be followed, and clarifies the responsibilities for both Motorola and Customer during the project implementation. Specifically, this SOW provides:

- A summary of the phases and tasks to be completed within the project lifecycle.
- A list of the deliverables associated with the project.
- A description of the responsibilities for both Motorola and Customer.
- The qualifications and assumptions taken into consideration during the development of this project.

This SOW provides the most current understanding of the work required by both parties to ensure a successful project implementation. In particular, Motorola has made assumptions of the sites to be used for the new system. Should any of the sites change, a revision to the SOW and associated pricing will be required. It is understood that this SOW is a working document, and that it will be revised as needed to incorporate any changes associated with contract negotiations, Contract Design Review (CDR), and any other change orders that may occur during the execution of the project.

Replace twenty-five existing Gold Elite with fourteen MCC 7500 VPM positions w/22" LCD non-touch monitors, three speakers per operator position are provided. Two central site controllers are provided that enable a redundant dispatch console network.

Two GGM8000 site gateways are interfaced to the existing wire line base stations. A console alias manager has been provided as well as an archive interface server and voice privacy modules. Nice radio IP50 logging stations and two Nice Playback stations are included in the integrated design. The existing Spectra Consolette control station desktops have been retained for operation as before the MCC 7500 upgrade.

Telephone POTS line patch capability has not been provided for this design.

## 3.2 ASSUMPTIONS

Motorola has based the system design on information provided by City of Detroit and an analysis of their system requirements. All assumptions have been listed below for review. Should Motorola's assumptions be deemed incorrect or not agreeable to City of Detroit, a revised proposal with the necessary changes and adjusted costs may be required. Changes to the equipment or scope of the project after contract may require a change order.



- All work is to be performed during normal work hours, Monday through Friday 8:00 a.m. to 5:00 p.m.
- Motorola is not responsible for interference caused or received by the Motorola provided equipment except for interference that is directly caused by the Motorola-provided transmitter(s) to the Motorola-provided receiver(s). Should City of Detroit system experience interference, Motorola can be contracted to investigate the source and recommend solutions to mitigate the issue.
- Motorola has not included the cost of any bonds for the work being performed under this contract.
- Motorola has not included any licensing services for the work being performed under this contract.

## 3.3 CONTRACT

### 3.3.1 Contract Award (Milestone)

- The Customer and Motorola execute the contract and both parties receive all the necessary documentation.

### 3.3.2 Contract Administration

#### ***Motorola Responsibilities:***

- Assign a Project Manager, as the single point of contact with authority to make project decisions.
- Assign resources necessary for project implementation.
- Set up the project in the Motorola information system.
- Schedule the project kickoff meeting with the Customer.

#### ***Detroit PD Responsibilities:***

- Assign a Project Manager, as the single point of contact responsible for Customer-signed approvals.
- Assign other resources necessary to ensure completion of project tasks for which the Customer is responsible.

#### ***Completion Criteria:***

- Motorola internal processes are set up for project management.
- Both Motorola and the Customer assign all required resources.
- Project kickoff meeting is scheduled.

### 3.3.3 Project Kickoff

#### ***Motorola Responsibilities:***

- Conduct a project kickoff meeting during the CDR phase of the project.
- Ensure key project team participants attend the meeting.



- Introduce all project participants attending the meeting.
- Review the roles of the project participants to identify communication flows and decision-making authority between project participants.
- Review the overall project scope and objectives with the Customer.
- Review the resource and scheduling requirements with the Customer.
- Review the Project Schedule with the Customer to address upcoming milestones and/or events.
- Review the teams' interactions (Motorola and the Customer), meetings, reports, milestone acceptance, and the Customer's participation in particular phases.

***Detroit PD Responsibilities:***

- The Customer's key project team participants attend the meeting.
- Review Motorola and Detroit PD Responsibilities.

***Completion Criteria:***

- Project kickoff meeting completed.
- Meeting notes identify the next action items.

## 3.4 CONTRACT DESIGN REVIEW (CDR)

### 3.4.1 Review Contract Design

***Motorola Responsibilities:***

- Meet with the Customer project team.
- Review the operational requirements and the impact of those requirements on various equipment configurations.
- Establish a defined baseline for the system design and identify any special product requirements and their impact on system implementation.
- Review the System Design, Statement of Work, Project Schedule, and Acceptance Test Plans, and update the contract documents accordingly.
- Discuss the proposed Cutover Plan and methods to document a detailed procedure.
- Submit design documents to the Customer for approval. These documents form the basis of the system, which Motorola will manufacture, assemble, stage, and install.
- Prepare equipment layout plans for field.
- Provide minimum acceptable performance specifications for microwave, fiber, or copper links.
- Establish demarcation point (supplied by the Motorola system engineer) to define the connection point between the Motorola-supplied equipment and the Customer-supplied link(s) and external interfaces.
- Finalize site acquisition and development plan.
  - Conduct (updated) site evaluations to capture site details of the system design and to determine site readiness (when necessary).

- Determine each site’s ability to accommodate proposed equipment based upon physical capacity.
- If applicable, the Customer should test existing equipment with which Motorola equipment will interface.
- Work with the Customer to identify radio interference between the new communication system and other existing radio systems.

**Restrictions:**

- Motorola assumes no liability or responsibility for inadequate frequency availability or frequency licensing issues.
- Motorola is not responsible for issues outside of its immediate control. Such issues include, but are not restricted to, improper frequency coordination by others and non-compliant operation of other radios.
- Motorola is not responsible for co-channel interference due to errors in frequency coordination or any other unlisted frequencies, or the improper design, installation, or operation of systems installed or operated by others
- If, for any reason, any of the proposed sites cannot be utilized due to reasons beyond Motorola’s control, the costs associated with site changes or delays including, but not limited to, re-engineering, frequency re-licensing, site zoning, site permitting, schedule delays, site abnormalities, re-mobilization, etc., will be paid for by the Customer and documented through the change order process.

***Detroit PD Responsibilities:***

- The Customer’s key project team participants attend the meeting.
- Make timely decisions, according to the Project Schedule.
- Frequency licensing and interference:
  - As mandated by FCC, the Customer, as the licensee, has the ultimate responsibility for providing all required radio licensing or licensing modifications for the system prior to system activation. This responsibility includes paying for FCC licensing and frequency coordination fees.
  - If applicable, the Customer should test existing equipment with which Motorola equipment will interface.

***Completion Criteria:***

- Complete Design Documentation, which may include updated System Description, Equipment List, system drawings, or other documents applicable to the project.
- Incorporate any deviations from the proposed system into the contract documents accordingly.
- The system design is “frozen” in preparation for subsequent project phases such as Order Processing and Manufacturing.
- A Change Order is executed in accordance with all material changes resulting from the Design Review to the contract.

## 3.4.2 Design Approval (Milestone)

- The Customer executes a Design Approval milestone document.



## 3.5 ORDER PROCESSING

### 3.5.1 Process Equipment List

#### ***Motorola Responsibilities:***

- Validate Equipment List by checking for valid model numbers, versions, compatible options to main equipment, and delivery data.
- Enter order into Motorola's Customer Order Fulfillment (COF) system.
- Create Ship Views, to confirm with the Customer the secure storage location(s) to which the equipment will ship. Ship Views are the mailing labels that carry complete equipment shipping information, which direct the timing, method of shipment, and ship path for ultimate destination receipt.
- Create equipment orders.
- Reconcile the equipment list(s) to the Contract.
- Procure third-party equipment if applicable.

#### ***Detroit PD Responsibilities:***

- Approve shipping location(s).
- Complete and provide Tax Certificate information verifying tax status of shipping location.

#### ***Completion Criteria:***

- Verify that the Equipment List contains the correct model numbers, version, options, and delivery data.
- Trial validation completed.
- Bridge the equipment order to the manufacturing facility.

## 3.6 MANUFACTURING

### 3.6.1 Manufacture Motorola Fixed Network Equipment

#### ***Motorola Responsibilities:***

- Manufacture the Fixed Network Equipment (FNE) necessary for the system based on equipment order.

#### ***Detroit PD Responsibilities:***

- None.

#### ***Completion Criteria:***

- FNE shipped to the field.



## 3.6.2 Acquire Non-Motorola Equipment

### ***Motorola Responsibilities:***

- Procure non-Motorola equipment necessary for the system based on equipment order.

### ***Detroit PD Responsibilities:***

- None.

### ***Completion Criteria:***

- Ship non-Motorola manufactured equipment to the field.

## 3.6.3 Ship Equipment to Field

### ***Motorola Responsibilities:***

- Pack system for shipment to final destination.
- Arrange for shipment to the field.

### ***Detroit PD Responsibilities:***

- Receive and inventory equipment shipped to the field.

### ***Completion Criteria:***

- Equipment is shipped to the field.

## 3.6.4 Develop Templates

### ***Motorola Responsibilities:***

- Motorola will provide the MPSCS contact information to City of Detroit for the purposes of creating the console templates.
- Program consoles with MPSCS provided templates. These templates will have been tested by the City of Detroit before delivery to Motorola

### ***Detroit PD Responsibilities:***

- Work with the MPSCS to create a plan for radio and console template creation.
- City of Detroit user groups create templates in a spreadsheet format.
- Forward electronic copies of the spreadsheets to the committee members for their review and comment.
- Evaluate sample radios and provide feedback.
- Approve templates.
- Provide approved templates to Motorola for radio and console programming.
- Pay the MPSCS for any user fees associated with radio activation / templates.

### ***Completion Criteria:***

- Templates completed and provided to Motorola.



## 3.7 CIVIL WORK FOR THE CUSTOMER-PROVIDED FACILITIES

### ***Motorola Responsibilities:***

- Provide electrical requirements for each equipment rack to be installed in the Customer-provided facilities.
- Provide heat load for each equipment rack to be installed in the Customer-provided facilities.

### ***Detroit PD Responsibilities:***

- If applicable and based on local jurisdictional authority, the Customer will be responsible for any installation or up-grades of the Critical Operation Power Systems in order to comply with NFPA 70, Article 708.
- Secure site lease/ownership, zoning, permits, regulatory approvals, easements, power, and Telco connections.
- Provide clear and stable access to the sites for transporting electronics and other materials. Sufficient site access must be available for trucks to deliver materials under their own power and for personnel to move materials to the facility without assistance from special equipment.
- Design and construct facilities for housing communications equipment such as shelters, towers, generators, fuel tanks, fenced compounds, etc.
- Supply adequately sized electrical service, backup power (UPS, generator, batteries, etc.) including the installation of conduit, circuit breakers, outlets, etc., at each equipment location.
- Supply two strands of CAT-5 cable per operator position. A total of 14 positions will be required.
- Provide AC power (three (3) dedicated 20A, AC outlets - quad with ground) for each major piece of equipment within six (6) feet of the location of the Motorola-supplied equipment, to the demarcation point(s) indicated in the documentation, including the associated electrical service and wiring (conduit, circuit breakers, etc.).
- Provide adequate HVAC, grounding, lighting, cable routing, and surge protection (also, among existing and Motorola-provided equipment) based upon Motorola's Standards and Guidelines for Communication Sites (R56). Ceiling (minimum 9 feet) and cable tray heights (minimum 8 feet) in the equipment rooms in order to accommodate 7-foot, 6-inch equipment racks.
- Provide floor space and desk space for the System equipment at the Customer-provided facilities. Each cabinet shall be provided a minimum of 24-inch wide x 38-inch deep footprint with 30-inch clearance in the front and back.
- Bring grounding system up to Motorola's R56 standards and supply a single point system ground, of 5 ohms or less, to be used on all FNE supplied under the Contract. Supply grounding tie point within 10 feet from the Motorola-supplied equipment.
- Provide all necessary wall or roof penetrations on existing buildings for antenna coax and microwave waveguide (if applicable) for main transmitter antennas, microwave radios, and control station Yagi antennas.
- Provide obstruction-free area for the cable run between the demarcation point and the communications equipment.
- Resolve any environmental issues including, but not limited to, asbestos, structural integrity (rooftop, water tank, tower, etc.) of the site, and any other building risks (resolve environmental or hazardous material issues).

- Arrange for space for installation of new antennas at the proposed heights.
- Perform structural analysis of existing tower and rooftops as required to confirm that the structure is capable of supporting proposed and future antenna loads.
- Supply all permits as contractually required.
- Supply interior building cable trays, raceways, conduits, and wire supports.
- Supply engineering and drafting as required for modifications to existing building drawings for site construction.
- Pay for usage costs of power and generator fueling, both during the construction and installation effort, and on an ongoing basis.
- Complete all customer deliverables in accordance within the approved project schedule.

***Completion Criteria:***

- All sites are ready for equipment installations in compliance with Motorola's R56 standards.

### **3.7.1 Site Development Complete**

- All site development completed, and approved by the Customer.

### **3.7.2 Site Development Acceptance (Milestone)**

- All site developments completed and accepted by the Customer.

## **3.8 SYSTEM INSTALLATION**

### **3.8.1 Install Fixed Network Equipment**

***Motorola Responsibilities:***

- Motorola will be responsible for the installation of all fixed equipment contained in the equipment list and outlined in the System Description based upon the agreed to floor plans, at the sites where the physical facility improvement is complete and the site is ready for installation. All equipment will be properly secured to the floor and installed in a neat and professional manner, employing a standard of workmanship consistent with its own R-56 installation standards and in compliance with applicable National Electrical Code (NEC), EIA, Federal Aviation Administration (FAA)/Transport Canada, and FCC standards and regulations/Industry Canada.
- For installation of the fixed equipment at the various sites, Motorola will furnish all cables for power, audio, control, and radio transmission to connect the Motorola supplied equipment to the power panels or receptacles and the audio/control line connection point.
- During field installation of the equipment, any required changes to the installation will be noted and assembled with the final 'as-built' documentation of the system.



***Detroit PD Responsibilities:***

- Provide secure storage for the Motorola-provided equipment, at a location central to the sites. Motorola coordinates the receipt of the equipment with the Customer's designated contact, and inventory all equipment.
- Provide access to the sites, as necessary.

***Completion Criteria:***

- Fixed Network Equipment installation completed and ready for optimization.

### **3.8.2 Fixed Network Equipment Installation Complete**

- All fixed network equipment installed and accepted by the Customer.

### **3.8.3 Console Installation**

***Motorola Responsibilities:***

- Install the console in the space provided by the Customer.
- Connect the Customer-supplied, previously-identified circuits into the console, to a demarcation point located within 10 feet of the console interface.
- Install the dedicated Local Area Network (LAN) cables at each dispatch console location to connect the proposed console equipment.
- Connect the appropriate equipment to the Customer-supplied ground system in accordance with Motorola's R56 Site Installation standards.

***Detroit PD Responsibilities:***

- Provide demarcation point located within 10 feet of the console interface.
- Provide single point ground system in equipment room, terminated on a 4" x 16" Master Ground Bar connected to the single point ground.
- Run an appropriate sized conductor from the equipment room Master Ground Bar to Dispatch and terminate it on a 4" x 12" ground buss bar under the floor in Dispatch.
- Allow Motorola access to the new Dispatch Center so that equipment can be set up and tested prior to usage.

***Completion Criteria:***

- Console installation is complete.

### **3.8.4 Console Installation Complete**

- Console installation completed and accepted by the Customer.

### **3.8.5 Control Station Installation**

***Motorola Responsibilities:***

- Connect the new console cabling from the site gateway to the existing control stations.

- Protect the cabling by providing and installing bulkhead lightning surge protectors in each transmission line.
- Perform the following tasks for the local control stations installations:
  - Create installation plan.
  - Assist the Customer to determine the locations of the console stations.
  - Connect to the Customer-supplied ground point.

***Detroit PD Responsibilities:***

- Work with the MPSCS to create and approve control station templates; pay for any MPSCS fees associated with these activations.
- Provide cable entry into the building through wall feed-through and seal with silicone, or provide an entry plate and boot.
- Provide ground point within six (6) cable feet of the control station rack.
- Provide necessary space for installation of the control stations and antenna combiner.
- Provide an elevated antenna mounting location.
- Supply a ground point of five (5) ohms or less located in the immediate vicinity (within 6 feet) of the finalized location of the antenna and control station.

***Completion Criteria:***

- Completion of all the control station installations, and approval by the Customer.

### **3.8.6 Control Station Complete**

- Control Station installation completed and accepted by the Customer.

### **3.8.7 System Installation Acceptance (Milestone)**

- All equipment installations are completed and accepted by the Customer.

## **3.9 SYSTEM OPTIMIZATION**

### **3.9.1 Optimize System FNE**

***Motorola Responsibilities:***

- Motorola and its subcontractors optimize each new subsystem.
- Verify that all equipment is operating properly and that all electrical and signal levels are set accurately.
- Verify that all audio and data levels are at factory settings.
- Check forward and reflected power for all radio equipment, after connection to the antenna systems, to verify that power is within tolerances.
- Check audio and data levels to verify factory settings.
- Verify communication interfaces between devices for proper operation.



- Test features and functionality are in accordance with manufacturers' specifications and that they comply with the final configuration established during the CDR/system staging.
- Integrate the consoles into the radio system to perform the dispatching operation.

***Detroit PD Responsibilities:***

- Provide access/escort to the sites.

***Completion Criteria:***

- System FNE optimization is complete.

## 3.9.2 Link Verification

***Motorola Responsibilities:***

- Perform test to verify site link performance of the existing zone 7 link, prior to the interconnection of the Motorola-supplied equipment to the link equipment. Motorola will perform link testing on the existing link, and if there are issues it will be City of Detroit's responsibility to troubleshoot and bring the fiber up to specifications. If Motorola is needed for additional testing or troubleshooting, then a change order may be required to cover those additional costs.

***Detroit PD Responsibilities:***

- Make available the required fiber between buildings which meet the specifications supplied by Motorola at the CDR.

***Completion Criteria:***

- Link verification successfully completed.

## 3.9.3 Optimization Complete

- System optimization is completed. Motorola and the Customer agree that the equipment is ready for acceptance testing.

## 3.10 TRAINING

### 3.10.1 Perform Training

***Motorola Responsibilities:***

- Training is not included.

***Detroit PD Responsibilities:***

- Training is not included.

***Completion Criteria:***

- Training is not included.



## 3.10.2 Training Complete

- Training is not included.

## 3.11 AUDIT AND ACCEPTANCE TESTING

### 3.11.1 Perform R56 Installation Audit

#### ***Motorola Responsibilities:***

- Perform R56 site-installation quality audits, verifying proper physical installation and operational configurations.
- Create site evaluation report to verify site meets or exceeds requirements, as defined in Motorola's Standards and Guidelines for Communication Sites (R56).

#### ***Detroit PD Responsibilities:***

- Provide access/escort to the sites.
- Witness tests.

#### ***Completion Criteria:***

- All R56 audits completed successfully.

### 3.11.2 Perform Equipment Testing

#### ***Motorola Responsibilities:***

- Test individual components of the system to verify compliance to the equipment specifications.
- Repeat any failed test(s) once Motorola (or the Customer) has completed the corrective action(s).
- Prepare documentation of component tests to be delivered as part of the final documentation package.

#### ***Detroit PD Responsibilities:***

- Witness tests if desired.

#### ***Completion Criteria:***

- Successful completion of equipment testing.

### 3.11.3 Perform Functional Testing

#### ***Motorola Responsibilities:***

- Verify the operational functionality and features of the individual subsystems and the system supplied by Motorola, as contracted.
- If any major task as contractually described fails, repeat that particular task after Motorola determines that corrective action has been taken.
- Document all issues that arise during the acceptance tests.



- Document the results of the acceptance tests and present to the Customer for review.
- Resolve any minor task failures before Final System Acceptance.

***Detroit PD Responsibilities:***

- Witness the functional testing.

***Completion Criteria:***

- Successful completion of the functional testing.
- Customer approval of the functional testing.

### 3.11.4 System Acceptance Test Procedures (Milestone)

- Customer approves the completion of all the required tests.

## 3.12 FINALIZE

### 3.12.1 Cutover

***Motorola Responsibilities:***

- Motorola and the Customer develop a mutually agreed upon cutover plan based upon discussions held during the CDR.
- During cutover, follow the written plan and implement the defined contingencies, as required.
- Conduct cutover meeting(s) with user group representatives to address both how to mitigate technical and communication problem impact to the users during cutover and during the general operation of the system.

***Detroit PD Responsibilities:***

- Attend cutover meetings and approve the cutover plan.
- Notify the user group(s) affected by the cutover (date and time).
- Ensure that all Subscribers have been activated on the system.
- Provide the MPSCS with payment information on the subscriber for activation.

***Completion Criteria:***

- Successful migration from the old system to the new system.

### 3.12.2 Resolve Punchlist

***Motorola Responsibilities:***

- Work with the Customer to resolve punchlist items, documented during the Acceptance Testing phase, in order to meet all the criteria for final system acceptance.

***Detroit PD Responsibilities:***

- Assist Motorola with resolution of identified punchlist items by providing support, such as access to the sites, equipment and system, and approval of the resolved punchlist item(s).



**Completion Criteria:**

- All punchlist items resolved and approved by the Customer.

### 3.12.3 Transition to Service/Project Transition Certificate

**Motorola Responsibilities:**

- Review the items necessary for transitioning the project to warranty support and service.
- Provide a Customer Support Plan detailing the warranty support

**Detroit PD Responsibilities:**

- Review the Customer Support Plan and offer contacts information for service escalations.

**Completion Criteria:**

- All service information has been delivered and approved by the Customer.

### 3.12.4 Finalize Documentation

**Motorola Responsibilities:**

- Provide an electronic as-built system manual on a Compact Disc (CD). The documentation will include the following:
  - System-level diagram
  - Site block diagrams
  - Site floor plans
  - Site equipment rack configurations
  - Antenna network drawings for RF sites
  - ATP test checklists
  - Functional Acceptance Test Plan test sheets and results
  - Equipment inventory list

Drawings are created utilizing Microsoft Visio software and will be delivered in Adobe PDF format.

**Detroit PD Responsibilities:**

- Receive and approve all documentation provided by Motorola.

**Completion Criteria:**

- All required documentation is provided and approved by the Customer.

### 3.12.5 Final Acceptance (Milestone)

- All deliverables completed, as contractually required.
- Final System Acceptance received from the Customer.



## 3.13 PROJECT ADMINISTRATION

### 3.13.1 Project Status Meetings

#### ***Motorola Responsibilities:***

- Once a month, Motorola Project Manager, or designee, will host project status meetings with the Customer, as determined during the CDR.
- Record the meeting minutes and supply the report.
- The agenda will include the following:
  - Overall project status compared to the Project Schedule.
  - Product or service related issues that may affect the Project Schedule.
  - Status of the action items and the responsibilities associated with them, in accordance with the Project Schedule.
  - Any miscellaneous concerns of either the Customer or Motorola.

#### ***Detroit PD Responsibilities:***

- Attend meetings.
- Respond to issues in a timely manner.

#### ***Completion Criteria:***

- Completion of the meetings and submission of meeting minutes.

### 3.13.2 Progress Milestone Submittal

#### ***Motorola Responsibilities:***

- Submit progress milestone completion certificate/documentation.

#### ***Detroit PD Responsibilities:***

- Approve and sign milestone certificates, which will signify confirmation of completion of the work associated with the scheduled task.

#### ***Completion Criteria:***

- The Customer approval of the Milestone Completion document(s).

### 3.13.3 Change Order Process

Either Party may request changes within the general scope of this Agreement. If a requested change causes an increase or decrease in the cost, change in system configuration or adds time to the project's timeline required to perform this Agreement, the Parties will agree to an equitable adjustment of the Contract Price, Performance Schedule, or both, and will reflect the adjustment in a change order. Neither Party is obligated to perform requested changes unless both Parties execute a written change order

### 3.13.4 Preliminary Schedule

The following is a preliminary schedule for the proposed design implementation.

<b>Implementation Project</b>	<b>146</b>	<b>10/1/2015</b>	<b>4/21/2016</b>
Contract	35	10/1/2015	11/18/2015
Contract Award	0	10/1/2015	10/1/2015
Contract Administration	15	10/15/2015	11/4/2015
Project Kick-Off	10	11/5/2015	11/18/2015
Contract Design Review	10	11/19/2015	12/2/2015
Review Contract Design	10	11/19/2015	12/2/2015
Design Approval	0	12/2/2015	12/2/2015
Order Processing	135	10/1/2015	4/6/2016
Process Equipment list	15	12/3/2015	12/23/2015
Order Bridged	0	12/23/2015	12/23/2015
Manufacturing	135	10/1/2015	4/6/2016
Manufacture Motorola FNE	75	12/24/2015	4/6/2016
Develop Programming Configurations	11	12/24/2015	1/7/2016
Ship Equipment to Field	10	10/1/2015	10/14/2015
INSTALLATION	77	10/15/2015	1/29/2016
Console Installation	57	10/15/2015	1/1/2016
Receive and Inventory	7	10/15/2015	10/23/2015
Remove Gold Elite ops	4	10/26/2015	10/29/2015
Install Console Equipment	28	10/30/2015	12/8/2015
Upgrade Operations	5	12/9/2015	12/15/2015
Ground Equipment	5	12/16/2015	12/22/2015
Program Console	8	12/23/2015	1/1/2016
Installation Acceptance	0	1/1/2016	1/1/2016
System Optimization	17	1/7/2016	1/29/2016
Link Verification	5	1/7/2016	1/13/2016
Optimize System FNE	10	1/18/2016	1/29/2016
Optimization Complete	0	1/29/2016	1/29/2016
Audit and Acceptance Testing	40	1/7/2016	3/2/2016
Perform R-56 Audit	5	1/7/2016	1/13/2016
Perform System Testing	5	2/4/2016	2/10/2016



<b>Implementation Project</b>	<b>146</b>	<b>10/1/2015</b>	<b>4/21/2016</b>
Cutover	15	2/10/2016	3/2/2016
Cut-Over	15	2/11/2016	3/2/2016
SATP Acceptance	0	2/10/2016	2/10/2016
Finalize	36	3/3/2016	4/21/2016
Resolve Punchlist	18	3/3/2016	3/28/2016
Finalize Documentation	18	3/29/2016	4/21/2016
Transition Service/PTC	2	3/29/2016	3/30/2016
Final Acceptance	0	4/21/2016	4/21/2016





# CONSOLES/SUBSCRIBERS WARRANTY/SERVICE

## 4.1 DISPATCH SERVICE

Motorola's Dispatch Service ensures that trained and qualified technicians are dispatched to diagnose and restore your communications network. Following proven response and restoration processes, the local authorized service center in your area is contacted and a qualified technician is sent to your site. An automated escalation and case management process is followed to ensure that technician site arrival and system restoration comply with contracted response and restore times. Once the issue has been resolved, the System Support Center verifies resolution and with your approval, closes the case. Activity records are also available to provide a comprehensive history of site performance, issues, and resolution.

## 4.2 TECHNICAL SUPPORT SERVICE

Motorola Technical Support service provides an additional layer of support through centralized, telephone consultation for issues that require a high level of communications network expertise and troubleshooting capabilities. Technical Support is delivered by the System Support Center (SSC). The SSC is staffed with trained, skilled technologists specializing in the diagnosis and swift resolution of network performance issues. These technologists have access to a solutions database as well as in house test labs and development engineers. Technical Support cases are continuously monitored against stringent inbound call management and case management standards to ensure rapid and consistent issue resolution. Technical Support service translates into measurable, customer-specific metrics for assured network performance and system availability.

## 4.3 ON SITE INFRASTRUCTURE RESPONSE

Motorola OnSite Infrastructure Response provides local, trained and qualified technicians who arrive at your location to diagnose and restore your communications network. Following proven response and restore processes, Motorola Dispatch contacts the local authorized service center in your area and dispatches a qualified technician to your site. An automated escalation and case management process ensures that technician site arrival and system restoration comply with contracted response times. The field technician restores the system by performing first level troubleshooting on site. If the technician is unable to resolve the issue, the case is escalated to the System Support Center or product engineering teams as needed.

## 4.4 INFRASTRUCTURE REPAIR WITH ADVANCED REPLACEMENT

Infrastructure Repair service provides for the repair of all Motorola-manufactured equipment, as well as equipment from third-party infrastructure vendors. All repair management is handled through a central location eliminating your need to send equipment to multiple locations.

Comprehensive test labs replicate your network in order to reproduce and analyze the issue. State-of-the-art, industry-standard repair tools enable our technicians to troubleshoot, analyze, test, and repair your equipment. Our ISO9001 and TL9000-certified processes and methodologies ensure that your equipment is quickly returned maintaining the highest quality standards.

Service agreements allow you to budget your maintenance costs on an annual basis. Equipment covered under service agreements also receives higher service priority, which results in quicker repair times.

Infrastructure Repair with our Advanced Replacement upgrade supplements your spares inventory with Motorola's centralized inventory of critical equipment. When available, Motorola will provide Customer with an Advanced Replacement unit(s) within 24 hours in exchange for Customer's malfunctioning equipment. Upon receipt of the malfunctioning unit, Motorola repairs the unit and replaces it in our centralized inventory.

## 4.5 NETWORK PREVENTATIVE MAINTENANCE

Network Preventative Maintenance provides an operational test and alignment on your infrastructure or fixed network equipment to ensure that it meets original manufacturer's specifications. Trained technicians:

- Physically inspect equipment.
- Remove dust and foreign substances.
- Clean filters.
- Measure, record, align and adjust equipment to meet original manufacturer's specifications.

This service is performed based on a schedule agreed upon between you and Motorola. Network Preventative Maintenance proactively detects issues that may result in system malfunctions and operational interruptions.



# RIC SYSTEM DESCRIPTION

## 5.1 PROJECT OVERVIEW

### 5.1.1 Lyndon Dispatch Site and Real Time Crime Center

Motorola is proposing an upgrade of the video surveillance network at the Lyndon Dispatch site and 800 MHz radio sites plus an expansion of the City of Detroit Police Department's (DPD) Real Time Crime Center (RTCC) network. The new cameras and video management system (VMS) will provide enhanced video surveillance capabilities over the existing components. The existing video surveillance network has been in place for several years with equipment and the cameras and NVRs are no longer supported. The Detroit RTCC functionality will also be expanded with additional VMS and tether connectors, a fixed License Plate Reader (LPR) system, additional IDP (Intelligent Data Portal) licenses, an expanded Digital Stakeout trial, along with a Collaboration Workspace solution based on a Precinct View.

Motorola has been working with the City of Detroit Police Department on the RTCC and IDP expansion requirements and functionality. This proposal reflects the second Phase which leverages the RIC platform foundation to expand the capabilities and functionality of the RTCC along with enhancing the video surveillance at the critical radio sites and dispatch location.

## 5.2 REAL TIME INTELLIGENCE CONSOLE

The Real Time Intelligence Console (RIC) currently installed in Detroit identifies and distributes incident relevant intelligence to first responders in real time. The RIC is comprised of a client-server architecture. The servers provide the interfaces to the external systems from which information is being collected.

The diagram below depicts an overview of the existing Motorola Proposed Real Time Intelligence Console (RIC) in Detroit.

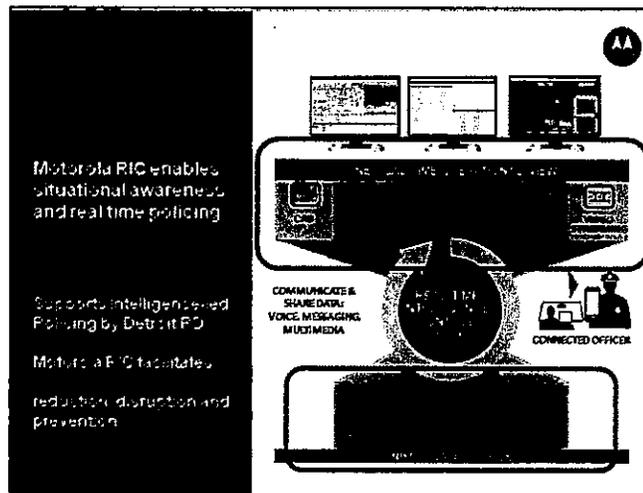


Figure 5-1: Detroit Motorola RIC Console

The Motorola RIC provides an aggregated user-configurable console view, integrating multiple disparate public safety systems. As part of this proposal, Motorola will expand the connectors to be able to integrate an additional five Video Management Systems along with two tether systems.

Detroit will provide the list of VMS connections into the RIC. This quantity of five video connectors in this proposal will supplement the existing connectors provided with the initial RIC system.

The tether or ankle bracelet connectors in the RIC will be the interface to the existing tether systems currently in use in Detroit. The tether (ankle bracelet) is a homing device that individuals under house arrest or parole are often required to wear. At timed intervals, the ankle monitor sends a radio frequency signal containing location and other information to a receiver. If an offender moves outside of an allowed range, the police will be notified. Ankle monitors are designed to be tamper-resistant and can alert authorities to removal attempts, such as cutting the conductive band causing a circuit break. This alarm condition will be passed to the RIC which will display the alarm and location for response by the RIC operator.

## 5.2.1 Detroit RTCC Interfaces (Connectors)

This section presents the new connectors Motorola has proposed to interface into the existing Detroit Real Time Intelligence Client currently utilized by Detroit PD.

### 5.2.1.1 Video

This will be a custom interface to Video Management Systems identified by Detroit that Motorola will develop based on detailed requirements as defined by the customer and in alignment with the capabilities of the RIC platform. The Detroit PD will be responsible for ensuring that adequate SDK licenses exist on the VMS systems.

### 5.2.1.2 Tether

Motorola will create an interface between Detroit PD's existing Tether systems and the RIC. This interface will support the flow of incident related information from the Tether Systems into the RIC. Incidents will be plotted on the RIC along with additional details for each incident. Incident updates will be forwarded to the RIC, providing up to date incident information to the RIC operator.

This will be a custom interface to the Tether Systems that Motorola will develop based on detailed requirements as defined by the customer and in alignment with the capabilities of the RIC platform.

## 5.2.2 Collaboration Workspace

The RIC Workspace provides an Intelligence Operator with tools to organize intelligence and data that is gathered, and make that information available to others associated with responding to an incident or event. Information can also be stored for later retrieval and review, and disseminate the information to first responders and dispatchers.

- Uses the open source Liferay Portal blog toolset.
- Liferay integration into the RIC client for streamlined workflows to share incident and event related information.
- Workspaces can be created by the Intelligence Operator at anytime and for any reason.



- Items posted to a workspace are not visible by others until published by the Intelligence Operator. A workspace can have some items that are published and other items that are only visible to the Intelligence Operator who posted the item.
- The Intelligence operator determines when to notify first responders and other associated with the incident that a workspace exists. The notification is sent via the customer's existing messaging platform. In the notification message is a link to the specific workspace. This provides a single click access to all critical information associated with the incident or event.
- Only the Intelligence Operator can post information to Workspaces. Others can view and comment on the information posted.
- All users require a Liferay login and password for access.
- Motorola will configure RIC workspaces for officers in the 12 Detroit police precincts to enable them to view information posted by the RIC operator.

## 5.3 INTELLIGENT DATA PORTAL

### 5.3.1 IDP

Intelligent Data Portal (IDP) which gathers location-based information from existing databases, organizes it, and maps it using layers to show the location of people, resources, events, alerts and developing situations. Designed for public safety, this cloud-based mobile application integrates data from disparate public safety systems and third-party applications, providing responders in the field with critical information for improved decision making and multi-agency collaboration. HTML5-based, Intelligent Data Portal can be used on nearly any device, operating system and network.



Motorola's proposal includes:

- Qty 75 user licenses.
- Two year IDP subscription.
- Detroit will have a total of 100 IDP licenses from the Phase 1 and this project.

## 5.4 FIXED LICENSE PLATE READER SYSTEM

Motorola has proposed the Genetec AutoVu Fixed LPR camera system to be deployed at intersections in the Detroit area. AutoVu automatically identifies vehicles traveling public roads, immediately detecting threats and unusual vehicle behaviors or assisting investigations. Unified within the Security Center platform from Genetec, AutoVu merges ALPR with video surveillance, access control and third-party systems. AutoVu is deployed across the world in fixed and mobile applications, such as city-wide surveillance, vehicle access control, law enforcement and parking enforcement.

With this system DPD can compare license plates to lists of wanted or suspect vehicles, automatically identify employees at vehicle gates or notify staff of an important guest's arrival using AutoVu's

flexible list management features. Access to vehicle lists can be managed as required, restricting some users to adding license plates to existing lists while granting full access to administrators. Covert hotlists can even notify specified users of matches without letting other operators know

Motorola will be providing AutoVu Sharp cameras which combine a high-resolution LPR camera, an independent context camera, and onboard processing, all in a single device. The Sharp LPR camera is perfect for single-camera applications, and can capture license plates on vehicles traveling at speeds of up to 220 MPH (355 km/h). In fixed applications, the Sharp doubles as a video surveillance camera by streaming live video from its context sensor to Security Center. The Sharp provides sophisticated analytics on the edge and communicates over any wireless or wired network.

The City will provide the locations for the LPR cameras along with the attachment rights to the poles, AC power and backhaul network for connectivity.

The LPR system will be integrated into the RIC and the alarms, license plate data, license plate picture will be displayed on the map upon an alarm condition.

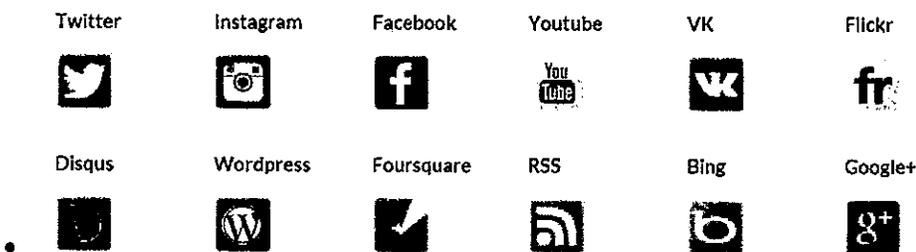
## 5.5 DIGITAL STAKEOUT

Included in this proposal is an extension of the existing Digital Stakeout subscription for a year.

Digital Stakeout provides the ability to collect web data from a multitude of sources including social media via keyword, hashtag, geo-fence and meta-data parameters in real-time. With the proposed solution DPD will be able to automatically collect, centralize and extract entities from the data you collect into one location where you can search, reduce, and visualize intelligence on the RIC

DPD will be able to use location-based social media for threat intelligence. With Digital Stakeout DPD can perform automated location based monitoring in real-time with circular, polygon, inferred, or USNG geo-fences over any place of interest in the City. Digital Stakeout Search2Graph social graphing analytics enable you to visualize connected conversations within your fences.

### SUPPORTED DATA SOURCES



## 5.6 LYNDON AND RADIO SITES CAMERAS

Motorola has proposed new surveillance systems at the Lyndon Facility along with the ten 800 MHz radio sites. This new system with cameras and VMS will replace the existing system. Six camera have been included at Lyndon while each radio site will have 2 cameras (except the Penobscot Building site which will have only one camera).

Motorola has proposed a new Genetec system which will be compatible with the existing city camera network. The Lyndon facility will have outdoor PTZ cameras and a local recorder. The radio sites will have 360 degree cameras with local recorder. Video from the remote recorders can be viewed at Lyndon or on the city network through the limited bandwidth currently being used by the existing



camera network. While the remote site will have the recorded video in high definition quality Motorola will need to adjust the viewing video of the available bandwidth of the network.

## 5.7 CONNECTIVITY

The RIC and IDP require connectivity to multiple customer networks where the interface systems reside.

The RIC positions will be located on the department's IP network. The Detroit PD will be responsible for connectivity between the various networks.

Motorola will work with the Detroit PD to ensure that connectivity meets minimum requirements. Any upgrades to the customer's network are the responsibility of the customer.

## 5.8 SYSTEM COMPONENTS

Our proposed solution includes the following summary of equipment for this proposal.

### 5.8.1 RIC Equipment

- Five Video Management System Connectors
- Two Tether Connectors
- Expanded Use of Collaboration Workspace for a Precinct View

### 5.8.2 IDP Equipment

- Cloud-based design provides role-based access and exploration of events. Easy-to-use browser based software - no limitations on operating systems or software to install on devices.
- Qty 75 user licenses (for a total of 100 licenses - existing 25 user licenses).

### 5.8.3 Fixed License Plate Reader

- Genetec AutoVu License Plate Reader system.
- Qty ten LPR cameras for five sites.
- LPR server.

### 5.8.4 Digital Stakeout

- Extended subscription for one year.
- Additional user training sessions.

### 5.8.5 Lyndon Facility and Radio Sites Cameras

- Qty 6 PTZ cameras at Lyndon.
- Qty 19 cameras at radio sites (2 per site except one at Penobscot Building).
- Genetec Security Center .

- Recorder.
- SV-16 Network Security Appliance with storage.

## 5.9 FUTURE EXPANSION

The proposed Real Time Information Center (RTCC) system may be expanded to connect to more applications and other new or existing VMS systems. Connector development and/or extra camera licenses would be required for these additional applications. Hardware upgrades may also be necessary.



# RIC STATEMENT OF WORK

## 6.1 OVERVIEW

This Statement of Work (SOW) describes the deliverables to be performed by Motorola, its subcontractors, and the Detroit PD to implement the solution described in the System Description. It describes the actual work involved in installation, identifies the installation standards to be followed, and clarifies the responsibilities for both Motorola and the Detroit PD during project implementation. Specifically, this SOW provides:

- A summary of the tasks to be completed within the project lifecycle.
- A list of the deliverables associated with the project.
- A description of the responsibilities for both Motorola and the Detroit PD.
- The qualifications and assumptions taken into consideration during the development of this project.

This SOW provides the most current understanding of the work required by both parties to ensure a successful project implementation. Should any of the assumptions change, a revision to the SOW and associated pricing will be required. It is understood that this SOW is a working document, and that it will be revised as needed to incorporate any changes associated with contract negotiations, Contract Design Review (CDR), and any other change orders that may occur during the execution of the project.

This scope of work describes the installation and configuration of an LPR network plus a video surveillance system at various facilities, and expansion of the Motorola Real Time Crime Center (RTCC) Solution currently in place at the Detroit PD. This scope of work also describes the expansion of IDP and extension of Digital Stakeout Subscription for the Detroit PD. See the System Description for a detailed description of all connectors to be provided for this project.

## 6.2 ASSUMPTIONS

Motorola has based the system design on information provided by the Detroit PD and an analysis of their system requirements. All assumptions have been listed below for review. Should Motorola's assumptions be deemed incorrect or not agreeable to the Detroit PD, a revised proposal with the necessary changes and adjusted costs may be required. Changes to the equipment or scope of the project after contract may require a change order.

- Any site/location upgrades or modifications are the responsibility of the Detroit PD.
- Approved local, State or Federal permits as may be required for the installation and operation of the proposed equipment are the responsibility of the Detroit PD.
- Any required system interconnections not specifically outlined here will be provided by the Detroit PD.
- Detroit PD is responsible for providing network connectivity between all required networks.
- Detroit PD is responsible for any back up or primary power for the proposed equipment.



- Detroit PD is responsible for ensuring that adequate floor and rack space exists for all equipment.
- All existing equipment locations will have adequate grounding and electrical power in the proper phase and voltage to support the requirements of the system described, and will be R56 compliant.
- The Detroit PD is responsible for ensuring that adequate numbers and types of switch ports are available on existing switches and that switches are located in the same room within standard IT practice of the new equipment.
- The physical demarcation for all new equipment requiring network connectivity will be with standard IT practice to each piece of equipment in the same room.
- The Detroit PD networking team must assign a static IP address to each of the RIC positions.
- The Detroit PD network must meet the network requirements as stated in the System Description.
- Detroit PD is responsible for any upgrades required to the existing VMS systems if they are obsolete or not supported by the manufacturer.
- Detroit PD shall provide any required Genetec API and/or SDK.
- Detroit PD shall provide any required tether (ankle bracelet) API or SDK.
- Detroit PD is responsible for a backhaul network from the LPR sites to the LPR server.
- Detroit PD is responsible for the backhaul network between radio sites and Lyndon for viewing the remote cameras.
- Detroit PD shall ensure adequate desk space and/or furniture is available for all RTCC equipment.
- The Detroit PD is to ensure that video is only viewed by the RIC clients, and not the Genetec clients on computers where the two clients cohabitate.
- This solution does not include network monitoring services.
- Detroit PD to ensure that all necessary inter-governmental agreements are in place to allow for access to all necessary systems.
- Detroit PD is responsible for any professional Architecture and Engineering drawings or permits required for this project, if needed.
- Detroit PD is responsible for ensuring that all training is conducted at one location over the course of two (2) days.
- All work is to be performed during normal work hours, Monday through Friday 8:00 a.m. to 5:00p.m.

## 6.3 CONTRACT

### 6.3.1 Contract Award (Milestone)

- The Detroit Police Dept. and Motorola execute the contract and both parties receive all the necessary documentation.



## 6.3.2 Contract Administration

### ***Motorola Responsibilities:***

- Assign a Project Manager, as the single point of contact with authority to make project decisions.
- Assign resources necessary for project implementation.
- Set up the project in the Motorola information system.
- Schedule the project kickoff meeting with the Detroit PD.

### ***Detroit PD Responsibilities:***

- Assign a Project Manager, as the single point of contact responsible for Detroit PD-signed approvals.
- Assign other resources necessary to ensure completion of project tasks for which the Detroit PD is responsible.

### ***Completion Criteria:***

- Motorola internal processes are set up for project management.
- Both Motorola and the Detroit PD assign all required resources.
- Project kickoff meeting is scheduled.

## 6.3.3 Project Kickoff

### ***Motorola Responsibilities:***

- Conduct a project kickoff meeting during the contract design review phase of the project.
- Ensure key project team participants attend the meeting.
- Introduce all project participants attending the meeting.
- Review the roles of the project participants to identify communication flows and decision-making authority between project participants.
- Review the overall project scope and objectives with the Detroit PD.
- Review the resource and scheduling requirements with the Detroit PD.
- Review the Project Schedule with the Detroit PD to address upcoming milestones and/or events.
- Review the teams' interactions (Motorola and the Detroit PD), meetings, reports, milestone acceptance, and the Detroit PD's participation in particular phases.

### ***Detroit PD Responsibilities:***

- Detroit PD key project team participants attend the meeting.
- Review Motorola and Detroit PD responsibilities.

### ***Completion Criteria:***

- Project kickoff meeting completed.
- Meeting notes identify the next action items.

## 6.4 CONTRACT DESIGN REVIEW

### 6.4.1 Review Contract Design

#### ***Motorola Responsibilities:***

- Meet with the Detroit PD project team.
- Review the operational requirements and the impact of those requirements on various equipment configurations.
- Establish a defined baseline for the system design and identify any special product requirements and their impact on system implementation.
- Review the System Design, Statement of Work, Project Schedule, and Acceptance Test Plans, and update the contract documents accordingly.
- Discuss the proposed Cutover Plan and methods to document a detailed procedure.
- Submit design documents to the Detroit PD for approval. These documents form the basis of the system, which Motorola will manufacture, assemble, stage, and install.
- Prepare equipment layout plans.
- Provide minimum acceptable network performance specifications.
- Establish demarcation point (supplied by the Motorola system engineer) to define the connection point between the Motorola-supplied equipment and the Detroit PD-supplied link(s) and external interfaces.

#### ***Detroit PD Responsibilities:***

- Ensure that Detroit PD key project team participants attend the meeting.
- Make timely decisions, according to the Project Schedule.

#### ***Completion Criteria:***

- Complete Design Documentation, which may include updated System Description, Equipment List, system drawings, or other documents applicable to the project.
- Incorporate any deviations from the proposed system into the contract documents accordingly.
- The system design is “frozen” in preparation for subsequent project phases such as Order Processing and Manufacturing.
- A Change Order is executed in accordance with all material changes resulting from the Design Review to the contract.

### 6.4.2 Design Approval (Milestone)

- The Detroit PD executes a Design Approval milestone document.



## 6.5 ORDER PROCESSING

### 6.5.1 Process Equipment List

#### ***Motorola Responsibilities:***

- Validate Equipment List by checking for valid model numbers, versions, compatible options to main equipment, and delivery data.
- Enter order into Motorola's Customer Order Fulfillment (COF) system.
- Create Ship Views, to confirm with the Detroit PD the secure storage location(s) to which the equipment will ship. Ship Views are the mailing labels that carry complete equipment shipping information, which direct the timing, method of shipment, and ship path for ultimate destination receipt.
- Create equipment orders.
- Procure equipment.

#### ***Detroit PD Responsibilities:***

- Approve shipping location(s).
- Complete and provide Tax Certificate information verifying tax status of shipping location, if applicable.

#### ***Completion Criteria:***

- Verify that the Equipment List contains the correct model numbers, version, options, and delivery data.
- Process Order.

## 6.6 DEVELOPMENT, PROCUREMENT, AND STAGING

### 6.6.1 Develop Connectors

#### ***Motorola Responsibilities:***

- Develop software connectors necessary for the system based on equipment order.

#### ***Detroit PD Responsibilities:***

- Work with Motorola to provide requirements for the connectors.
- Provide requested information on record layouts and documents necessary to establish interfaces with all local and remote systems and facilities within fifteen (15) days of the Project Kickoff Meeting.
- Provide and install all communications lines and equipment that are not Motorola provided in accordance with Project schedule.
- Ensure that necessary non-disclosure agreements, approvals, and other related issues are complete in accordance with Project schedule.
- Provide access to interfaced external systems locally and remotely.



- Provide all required liaison support with the agencies and vendors required to support the interfaces.
- Contract/engage with any external/third party vendors as required for external/third party systems to interface with Tiburon (excluding third party vendors that are Motorola subcontractors). Assume responsibility for all costs associated with the non-Motorola effort required for these interfaces.
- Ensure that the necessary technical support is made available for installation, testing, and demonstration of the interfaces.
- Provide software required for the support of interfaces that has not been contracted for through Motorola.

**Completion Criteria:**

- Software delivered for testing and integration into the RTCC Solution.

## 6.6.2 Procure Equipment

**Motorola Responsibilities:**

- Procure equipment necessary for the system based on equipment order.

**Detroit PD Responsibilities:**

- None.

**Completion Criteria:**

- Ship equipment to the staging facility.

## 6.6.3 Ship to Staging (Milestone)

- Ship all equipment needed for staging to Motorola's factory staging facility in Schaumburg, Illinois [Customer Center for Solutions Integration (CCSi)].

## 6.6.4 Stage System

**Motorola Responsibilities:**

- Set up the system equipment as it will be configured in the field.
- Cut and label cables according to the approved contract design review documentation, if applicable.
- Label the cables with to/from information to specify interconnection for field installation and future servicing needs, if applicable.
- Complete the cabling/connecting of the subsystems to each other.
- Assemble required subsystems to assure system functionality.
- Power up, program, and test all staged equipment.
- Confirm system configuration and software compatibility to the existing system.
- Load application parameters on all equipment according to input from Systems Engineering.



- Inventory the equipment with serial numbers and installation references.
- Complete system documentation.

***Detroit PD Responsibilities:***

- Provide information on existing system interfaces as may be required.
- Provide information on room layouts or other information necessary for the assembly to meet field conditions.

***Completion Criteria:***

- System staging completed and ready for testing.

## **6.6.5 Perform Staging Acceptance Test Procedures**

***Motorola Responsibilities:***

- Test and validate system software and features.
- Functional testing of standard system features.
- Conduct system level testing.

***Detroit PD Responsibilities:***

- None.

***Completion Criteria:***

- RTCC Solution passes all staging acceptance tests.

## **6.6.6 Ship Equipment to Field**

***Motorola Responsibilities:***

- Pack system for shipment to final destination.
- Arrange for shipment to the field.

***Detroit PD Responsibilities:***

- None.

***Completion Criteria:***

- Equipment ready for shipment to the field.

## **6.6.7 CCSi Ship Acceptance (Milestone)**

- All equipment shipped to the field.



## 6.7 CIVIL WORK FOR DETROIT PD-PROVIDED FACILITIES

### ***Motorola Responsibilities:***

- Provide electrical requirements for equipment to be installed in the Detroit PD -provided facilities.

### ***Detroit PD Responsibilities:***

- If applicable and based on local jurisdictional authority, the Detroit PD will be responsible for any installation or up-grades of the Critical Operation Power Systems to provide a typical IT environment for the equipment.
- Secure site lease/ownership, zoning, permits, regulatory approvals, easements, power, and Telco connections, if applicable.
- Provide clear and stable access to the sites for transporting electronics and other materials. Sufficient site access must be available for personnel to move materials to the facility without assistance from special equipment.
- Supply adequately sized electrical service, backup power (UPS, generator, batteries, etc.) including the installation of conduit, circuit breakers, outlets, etc., at each equipment location.
- Provide AC power to the demarcation point(s) indicated in the documentation, including the associated electrical service and wiring (conduit, circuit breakers, etc.).
- Provide adequate HVAC, grounding, lighting, cable routing, and surge protection (also, among existing and Motorola-provided equipment) based upon Motorola's Standards and Guidelines for Communication Sites (R56). Ceiling (minimum 9 feet) and cable tray heights (minimum 8 feet) in the equipment rooms in order to accommodate 7-foot, 6-inch equipment racks.
- Provide floor space and desk space for the System equipment at the Detroit PD -provided facilities. Relocate existing equipment, if needed, to provide required space for the installation of Motorola-supplied equipment.
- Bring grounding system up to Motorola's R56 standards and supply a single point system ground, of 5 ohms or less, to be used on all equipment supplied under the Contract. Supply grounding tie point within 10 feet from the Motorola-supplied equipment.
- Provide obstruction-free area for the cable run between the demarcation point and the communications equipment.
- Resolve any environmental or hazardous material issues including, but not limited to, asbestos, structural integrity of the site, and any other building risks.
- Supply all permits as required.
- Supply interior building cable trays, raceways, conduits, and wire supports.
- Supply engineering and drafting as required for modifications to existing building drawings for site construction.
- Pay for usage costs of power and generator fueling, both during the construction and installation effort, and on an ongoing basis.
- Complete all Detroit PD deliverables in accordance within the approved project schedule.



**Completion Criteria:**

- All sites are ready for equipment installations in compliance with Motorola's R56 standards.

## 6.8 SYSTEM INSTALLATION

### 6.8.1 Install RTCC, LPR, Lyndon and Radio Site Video Equipment

**Motorola Responsibilities:**

- Motorola will be responsible for the installation of all equipment contained in the equipment list and outlined in the System Description based upon the agreed to floor plans, at the sites where the physical facility improvement is complete and the site is ready for installation. All equipment will be properly installed in a neat and professional manner, employing a standard of workmanship consistent with its own R-56 installation standards and in compliance with applicable standards and regulations. Motorola and the Detroit Police IT department are to verify router, switch and other network configurations.
- For installation of the equipment at the various locations, Motorola will furnish all cables for power and networking, to connect the Motorola supplied equipment to the power panels or receptacles and the network connection points.
- During installation of the equipment, any required changes to the installation will be noted and assembled with the final 'as-built' documentation of the system.
- Motorola will receive and inventory all equipment.
- Motorola will not be responsible for removal of existing equipment.
- Motorola will not dispose of existing equipment.

**Detroit PD Responsibilities:**

- Provide secure storage for the Motorola-provided equipment, at a location central to the sites. Motorola coordinates the receipt of the equipment with the Detroit PD's designated contact, and inventory all equipment.
- Provide access to the sites, as necessary.
- Relocate equipment, unrelated to Motorola's scope, from existing location to the new building area designated by the Detroit PD.
- The Detroit PD will provide reasonable access to the necessary Detroit PD facilities, and suitable workspace for all project team members when working at Detroit PD's sites. Suitable workspace includes, but is not limited to, desks, access to the system, and meeting rooms.
- Provide Motorola with the appropriate information needed to complete the installation.
- DPD to provide all network connectivity for the various systems as needed.

**Completion Criteria:**

- Motorola provided RTCC equipment installation completed and ready for optimization.
- All Motorola provided RTCC equipment installed and accepted by the Detroit PD (Milestone).

## 6.8.2 Expand IDP, extend Digital Stakeout Subscription

### ***Motorola Responsibilities:***

- Expand the customer administrator access for Intelligent Data Portal (IDP) annual subscription service.
- Extend the subscription service for Digital Stakeout to an annual subscription service.
- Provide training for the new users

### ***Detroit PD Responsibilities:***

- Establish ESRI Account and ESRI Base Map.
- Ensure user devices equipped with HTML 5 capable browser software procured. IDP 1.0 supports Chrome and Safari browsers only.
- User devices have access to internet.

## 6.8.3 Optimize the RTCC System, LPR, Lyndon and Radio Site Video Equipment

### ***Motorola Responsibilities:***

- Verify that all equipment is operating properly.
- Verify communication interfaces between devices for proper operation.
- Verify all RTCC equipment is functioning per specifications.
- Test features and functionality are in accordance with manufacturers' specifications and that they comply with the final configuration established during the CDR.
- Motorola and its subcontractors optimize each subsystem.

### ***Detroit PD Responsibilities:***

- Provide access/escort to the sites.
- The City will be responsible for compliance with the terms of use of websites the City accesses using Digital Stakeout

### ***Completion Criteria:***

- Motorola provided RTCC equipment optimization is complete.
- Motorola and the Detroit PD agree that the equipment is ready for acceptance testing.

## 6.8.4 Optimize IDP and Digital Stakeout

### ***Motorola Responsibilities:***

- Verify all IDP capabilities are functioning per specifications.
- Test features and functionality are in accordance with manufacturers' specifications and that they comply with the final configuration established during the CDR.
- Motorola and its subcontractors optimize each subsystem.

***Detroit PD Responsibilities:***

- Provide access/escort to the sites.

***Completion Criteria:***

- Motorola provided IDP Subscription optimization is complete.
- Motorola and the Detroit PD agree that the IDP Subscription is ready for acceptance testing.

## **6.9 TRAINING**

### **6.9.1 Perform Training**

***Motorola Responsibilities:***

- Finalize training schedules purchased as part of this project with the Detroit PD Project Manager.
- Conduct two days of training sessions to train the Detroit PD on the RIC and IDP.

***Detroit PD Responsibilities:***

- Attend training classes.
- The Detroit PD will provide training facilities in the same area where the system is installed.
- Operators will be briefed and ready to be trained.
- The Detroit PD will identify and schedule training class attendees and facilities in connection with any training provided.

***Completion Criteria:***

- All training classes completed.

## **6.10 ACCEPTANCE TESTING**

### **6.10.1 Perform RIC, LPR, Lyndon and Radio Site Video Equipment Testing**

***Motorola Responsibilities:***

- Test individual components, using an agreed-to Acceptance Test Plan (ATP) to verify compliance to the equipment specifications.
- Repeat any failed test(s) once Motorola (or the Detroit PD) has completed the corrective action(s).
- Prepare documentation of component tests to be delivered as part of the final documentation package.

***Detroit PD Responsibilities:***

- Witness tests if desired.

***Completion Criteria:***

- Successful completion of equipment testing.

## 6.10.2 Perform RIC, LPR, Lyndon and Radio Site Video Equipment Functional Testing

### ***Motorola Responsibilities:***

- Test, using an agreed-to Acceptance Test Plan, the operational functionality and features of the RTCC Solution supplied by Motorola, as contracted.
- If any major task as contractually described fails, repeat that particular task after Motorola determines that corrective action has been taken.
- Document all issues that arise during the acceptance tests.
- Document the results of the acceptance tests and present to the Detroit PD for review.
- Resolve any minor task failures before Final System Acceptance.

### ***Detroit PD Responsibilities:***

- Witness the functional testing.

### ***Completion Criteria:***

- Successful completion of the functional testing.
- Detroit PD approval of all required functional tests (Milestone).
- 

## 6.10.3 Perform IDP and Digital Stakeout Testing

### ***Motorola Responsibilities:***

- Test, using an agreed-to Acceptance Test Plan, the operational functionality and features of the IDP Solution supplied by Motorola, as contracted.
- If any major task as contractually described fails, repeat that particular task after Motorola determines that corrective action has been taken.
- Document all issues that arise during the acceptance tests.
- Document the results of the acceptance tests and present to the Detroit PD for review.

### **Resolve any minor task failures before Final System Acceptance**

### ***Detroit PD Responsibilities:***

- Witness tests

### ***Completion Criteria:***

- Successful completion of equipment testing.



## 6.11 FINALIZE

### 6.11.1 Cutover (when applicable)

#### ***Motorola Responsibilities:***

- Motorola and the Detroit PD develop a mutually agreed upon cutover plan based upon discussions held during the CDR.
- During cutover, follow the written plan and implement the defined contingencies, as required.
- Conduct cutover meeting(s) with user group representatives to address both how to mitigate technical and communication problem impact to the users during cutover and during the general operation of the system.

#### ***Detroit PD Responsibilities:***

- Attend cutover meetings and approve the cutover plan.
- Notify the user group(s) affected by the cutover (date and time).
- Conduct a roll call of all users working during the cutover, in an organized and methodical manner.

#### ***Completion Criteria:***

- Successful migration to the new RTCC Solution.

### 6.11.2 Resolve Punchlist

#### ***Motorola Responsibilities:***

- Work with the Detroit PD to resolve punch list items, documented during the Acceptance Testing phase, in order to meet all the criteria for final system acceptance.

#### ***Detroit PD Responsibilities:***

- Assist Motorola with resolution of identified punchlist items by providing support, such as access to the sites, equipment and system, and approval of the resolved punchlist item(s).

#### ***Completion Criteria:***

- All punchlist items resolved and approved by the Detroit PD.

### 6.11.3 Transition to Service/Project Transition Certificate

#### ***Motorola Responsibilities:***

- Review the items necessary for transitioning the project to warranty support and service.
- Provide a Support Plan detailing the warranty and post-warranty support, if applicable, associated with the Contract equipment.

#### ***Detroit PD Responsibilities:***

- Participate in the Transition Service/Project Transition Certificate (PTC) process.

**Completion Criteria:**

- All service information has been delivered and approved by the Detroit PD.

## 6.11.4 Finalize Documentation

**Motorola Responsibilities:**

- Provide an electronic as-built system manual on a Compact Disc (CD). The documentation will include the following:
  - System-Level Diagram
  - Site Equipment Configurations
  - Functional Acceptance Test Plan Test Sheets and Results
  - Equipment Inventory List
  - Technical Service Manuals
- Drawings will be delivered in Adobe PDF format.

**Detroit PD Responsibilities:**

- Receive and approve all documentation provided by Motorola.

**Completion Criteria:**

- All required documentation is provided and approved by the Detroit PD.

## 6.11.5 Final Acceptance (Milestone)

- All deliverables completed, as contractually required.
- Final System Acceptance received from the Detroit PD.

## 6.12 PROJECT ADMINISTRATION

### 6.12.1 Project Status Meetings

**Motorola Responsibilities:**

- Twice a month, or as agreed, Motorola Project Manager, or designee, will attend all project status meetings with the Detroit PD, as determined during the contract design review. Record the meeting minutes and supply the report.
- The agenda will include the following:
  - Overall project status compared to the Project Schedule.
  - Product or service related issues that may affect the Project Schedule.
  - Status of the action items and the responsibilities associated with them, in accordance with the Project Schedule.
  - Any miscellaneous concerns of either the Detroit PD or Motorola.

**Detroit PD Responsibilities:**

- Attend meetings.
- Respond to issues in a timely manner.



**Completion Criteria:**

- Completion of the meetings and submission of meeting minutes.

## 6.12.2 Progress Milestone Submittal

**Motorola Responsibilities:**

- Submit progress (payment and non-payment) milestone completion certificate/documentation.

**Detroit PD Responsibilities:**

- Approve milestone, which will signify confirmation of completion of the work associated with the scheduled task.

**Completion Criteria:**

- Detroit PD approval of the Milestone Completion document(s).

## 6.12.3 Change Order Process

- Either Party may request changes within the general scope of this Agreement. If a requested change causes an increase or decrease in the cost, change in system configuration or adds time to the project's timeline required to perform this Agreement, the Parties will agree to an equitable adjustment of the Contract Price, Performance Schedule, or both, and will reflect the adjustment in a change order. Neither Party is obligated to perform requested changes unless both Parties execute a written change order.

### 6.12.3.1 Change Order Form – (Example)

Motorola's Change Order Form (example only) is included on the following pages.





Change Order No. \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Customer Name: \_\_\_\_\_  
 Customer Project Mgr: \_\_\_\_\_

The purpose of this Change Order is to: *(highlight the key reasons for this Change Order)*

Contract # REQUIRED Contract Date: \_\_\_\_\_

In accordance with the terms and conditions of the contract identified above between  
[enter customer name] and Motorola Solutions, Inc., the following changes are approved:

**Contract Price Adjustments**

Original Contract Value:	\$
Previous Change Order amounts for Change Order numbers <input type="text"/> through <input type="text"/>	\$
This Change Order:	\$
New Contract Value:	\$

**Completion Date Adjustments**

Original Completion Date:	
Current Completion Date prior to this Change Order:	
New Completion Date:	



<b>Changes in Equipment:</b> <i>(additions, deletions or modifications)</i> Include attachments if needed.

<b>Changes in Services:</b> <i>(additions, deletions or modifications)</i> Include attachments if needed.

<b>Schedule Changes:</b> <i>(describe change or N/A)</i>

<b>Pricing Changes:</b> <i>(describe change or N/A)</i>

<b>Detroit PD Responsibilities:</b> <i>(describe change or N/A)</i>

<b>Payment Schedule for this Change Order:</b> <i>(describe new payment terms applicable to this change order)</i>

Unless amended above, all other terms and conditions of the Contract shall remain in full force. If there are any inconsistencies between the provisions of this Change Order and the provisions of the Contract, the provisions of this Change Order will prevail.

IN WITNESS WHEREOF the parties have executed this Change Order as of the last date signed below.

CITY OF DETROIT PD	Date:
_____	_____

MOTOROLA SOLUTIONS, INC.	Date:
_____	_____
By:	_____
Printed Name:	_____
Title:	_____
Reviewed By:	Date:
_____	_____

## 6.13 PROJECT SCHEDULE

As the VIP program has an accelerated implementation schedule and requires coordination between Detroit PD and Motorola, the Project Implementation Schedule will be developed at the Kick-off and Design Review Meeting.

# RIC WARRANTY/SERVICES

## 7.1 RTCC TECHNICAL SUPPORT

### 7.1.1 Description of Service

Technical Support service provides continuous centralized remote telephone support for technical issues that require a high level of RTCC communications system expertise or troubleshooting on RTCC equipment. Once a trouble call or a monitoring event is received, Motorola immediately begins diagnosis of the event by interrogating the RTCC system, running appropriate diagnostics, characterizing the problem, and remotely restoring the affected device or subsystem. If a remote fix is not possible, a field technician will be dispatched to the site. The field technician contacts Technical Support to obtain the current status, available diagnostic results, and the assessment of the failure. Motorola will engage internal and Vendor engineering resources, as required, to resolve the issue.

The terms and conditions of this Statement of Work (SOW) are an integral part of Motorola's Service Terms and Conditions or other applicable agreement to which it is attached and made a part thereof by this reference.

### 7.1.2 Exclusions to Service and Applicable Disclaimers

Technical Support service: (i) does not include customer training; (ii) is limited to hardware and software provided and currently supported by Motorola.

Table 7-1: Motorola Severity Levels

Severity Level	Problem Types
Severity 1	<p><b>Response is provided continuously within 4 hours from receipt of notification.</b></p> <ul style="list-style-type: none"> <li>Major System failure.</li> </ul> <p>This level is meant to represent a major issue that results in an unusable system, sub-system, product, or critical features from Detroit PD's perspective. No work-around or immediate solution is available.</p>
Severity 2	<p><b>Response during Standard Business Day within 4 hours from receipt of notification.</b></p> <ul style="list-style-type: none"> <li>Significant System Impairment not to exceed 33% of system down.</li> <li>System problems presently being monitored.</li> </ul> <p>This level is meant to represent a moderate issue that limits Detroit PD's normal use of the system, sub-system, product, or major non-critical features from Detroit PD's perspective.</p>



Severity Level	Problem Types
Severity 3	<p><b>Response during Standard Business Day within 24 hours from receipt of notification.</b></p> <ul style="list-style-type: none"> <li>▪ Intermittent system issues.</li> <li>▪ Information questions.</li> <li>▪ Upgrades/Preventative maintenance.</li> </ul> <p>This level is meant to represent a minor issue that does not preclude use of the system, sub-system, product, or critical features from a Detroit PD perspective. It may also represent a cosmetic issue, including documentation errors, general usage questions, recommendations for product enhancements or modifications, and scheduled events such as preventative maintenance or product/system upgrades.</p>

**NOTE:** Standard Business Day is defined as 8:00 a.m. – 5:00 p.m. customer local time (limited to ET, CT, MT, or PT and for CDMA only CT) Monday to Friday, excluding all national and local holidays recognized by Motorola.

***Motorola Responsibilities:***

- Respond to requests for Technical Support for the Restoration of failed Systems and diagnosis of operation problems in accordance with the response times set forth above.
- Advise caller of procedure for determining any additional requirements for issue characterization and restoration, including providing a known fix for issue resolution when available.
- Attempt remote access to the RTCC System, if available, for remote diagnostics.
- Maintain communication with the Servicer or Customer in the field until close of the Case, as needed.
- Coordinate technical resolutions with vendor(s), as needed.
- Escalate and manage support issues, including systemic issues, to Motorola engineering and product groups, as applicable.
- Escalate the Case to the appropriate party upon expiration of a response time.
- Provide Configuration Change Support and Work Flow changes to a system that has remote access capability.
- Determine, in its sole discretion, when a Case requires more than the Technical Support services described in this SOW and notify Customer of an alternative course of action.

***Detroit PD Responsibilities***

- Contact, or instruct Servicer to contact, the Motorola System Support Center (SSC) and request a return authorization number prior to shipping malfunctioning hardware.
- Provide Motorola with pre-defined information prior to Start Date necessary to complete the Customer Support Plan.
  - Submit changes in any information supplied in the Customer Support Plan to the Customer Support Manager.
  - Contact the SSC in order to access the Technical Support Operation, provide name of caller, name of Customer, System ID number, Service Agreement number, site(s) in questions, and brief description of the problem.
  - Supply on-site presence when requested by SSC.
  - Validate issue resolution prior to close of the Case.
  - Allow Motorola remote access to the RTCC System, if available, by equipping the system with the necessary connectivity.



- Acknowledge that Cases will be handled in accordance with the times and priorities as defined above.

## 7.1.3 Infrastructure Repair

### 1.0 Description of Services

Infrastructure Repair is a repair service for Motorola and select third party Infrastructure as set forth in the applicable attached Exhibit(s), all of which are hereby incorporated into this Statement of Work (SOW) by this reference. Infrastructure may be repaired down to the Component level, as applicable, at the Motorola Infrastructure Depot Operations (IDO). At Motorola's discretion, select third party Infrastructure may be sent to the original equipment manufacturer or third party vendor for repair. If Infrastructure is no longer supported by the original equipment manufacturer or third party vendor, Motorola may replace Infrastructure with similar Infrastructure, when possible.

The terms and conditions of this Statement of Work (SOW) are an integral part of Motorola's Service Terms and Conditions or other applicable agreement to which it is attached and made a part thereof by this reference.

### 2.0 Motorola has the following responsibilities:

- 2.1. Provide repair return authorization numbers when requested by Customer.
- 2.2. Receive malfunctioning Infrastructure from Customer and document its arrival, repair and return.
- 2.3. Perform the following service on Motorola Infrastructure:
  - 2.3.1. Perform an operational check on the Infrastructure to determine the nature of the problem.
  - 2.3.2. Replace malfunctioning FRU or Components.
  - 2.3.3. Verify that Motorola Infrastructure is returned to Motorola manufactured specifications, as applicable
  - 2.3.4. Perform a Box Unit Test on all serviced Infrastructure.
  - 2.3.5. Perform a System Test on select Infrastructure.
- 2.4. Provide the following service on select third party Infrastructure:
  - 2.4.1. Perform pre-diagnostic and repair services to confirm Infrastructure malfunction and eliminate sending Infrastructure with no trouble found (NTF) to third party vendor for repair, when applicable.
  - 2.4.2. Ship malfunctioning Infrastructure to the original equipment manufacturer or third party vendor for repair service, when applicable. Properly package Infrastructure and ship the malfunctioning FRU to Motorola. Motorola is responsible for properly packaging the malfunctioning Infrastructure FRU to ensure that the shipped Infrastructure arrives un-damaged and in repairable condition. Clearly print the return authorization number on the outside of the packaging.
  - 2.4.3. Track Infrastructure sent to the original equipment manufacturer or third party vendor for service.
  - 2.4.4. Perform a post-test after repair by Motorola, original equipment manufacturer, or third party vendor to confirm malfunctioning Infrastructure has been repaired and functions properly in a Motorola System configuration, when applicable.
- 2.5. Ship repaired Infrastructure to the Customer specified address during normal operating hours of Monday through Friday 7:00am to 7:00pm CST, excluding holidays. FRU will be sent two-day air unless otherwise requested. Select third party FRU. Motorola will pay for such shipping, unless Customer requests shipments outside of the above mentioned standard business hours and/or carrier programs, such as NFO (next flight out). In such cases, Customer will be subject to shipping and handling charges.



- 3.0 Customer has the following responsibilities:
- 3.1. Contact or instruct Servicer to contact the Motorola System Support Center (SSC) and request a return authorization number prior to shipping malfunctioning Infrastructure or third party Infrastructure named in the applicable attached Exhibit.
    - 3.1.1. Provide model description, model number, serial number, type of System and Firmware version, symptom of problem and address of site location for FRU or Infrastructure.
    - 3.1.2. Indicate if Infrastructure or third party Infrastructure being sent in for service was subjected to physical damage or lightning damage.
    - 3.1.3. Follow Motorola instructions regarding inclusion or removal of Firmware and Software applications from Infrastructure being sent in for service.
    - 3.1.4. Provide Customer purchase order number to secure payment for any costs described herein.
  - 3.2. Cooperate with Motorola and perform all acts that are reasonable or necessary to enable Motorola to provide the Infrastructure Repair services to Customer.

4.0 The following items are excluded from Infrastructure Repair:

1. All Infrastructure over seven (7) years from product cancellation date.
2. Physically damaged Infrastructure.
3. Third party Equipment not shipped by Motorola.
4. Firmware and/or Software upgrades.

RTCC Infrastructure Exhibit	Inclusions, Exclusions, Exceptions and Notes
HP DL380 Server	Excludes cables, racks
HP Z820 Workstation	Excludes cables, racks

## 7.2 WARRANTY REPAIRS

A warranty repair consists of parts and labor. Proof of purchase may be required for any warranty repair. All warranty repairs must be performed at the manufacturer's authorized repair facility. Any attempt to repair product by unauthorized personnel will void the remaining warranty.

## 7.3 NON-WARRANTY REPAIRS

Equipment outside of warranty coverage will be repaired on a time and materials basis at the manufacturer's authorized repair facility.

All non-warranty repairs are subject to minimum workshop fee. Most repairs are warranted against faulty workmanship or components used in the provision of the repair for a period of ninety (90) days from the date of dispatch from our premises.

A purchase order is required for all non-warranty repair work.

### 7.3.1 Estimates (non-warranty repairs)

An additional fee will be charged for all estimates. All estimates will be sent to the customer in writing and will require a signature for authorization. If the estimate is declined, the equipment will be returned to the customer un-repaired. Equipment requiring an estimate cannot be scheduled for express repair service.



## 7.4 BASIS FOR ACCEPTANCE

Motorola cannot guarantee the availability of components or assemblies within the electronics industry and reserves the right to return, un-repaired, any item which is beyond economic repair. In such cases, additional fee will be assessed.



# EQUIPMENT LISTS

## 8.1 DISPATCH CONSOLES

QTY	NOMENCLATURE	DESCRIPTION
1	SQM01SUM0239	MASTER SITE CONFIG UPGRADE
1	CA00996AK	NM/ZC LICENSE KEY 7.13
1	CA00997AK	UCS LICENSE KEY 7.13
3	CA02105AA	MCC7500/MCC7100 CONSOLE LIC
1	T7787	ASTRO 7.13 CLIENT APPLICATION SW
1	SQM01SUM0239	MASTER SITE CONFIG UPGRADE
1	CA00996AK	ENH: EXPAND 7.15
1	CA00997AK	UCS LICENSE KEY 7.13
2	Z801AK	ENH: BASIC RADIO CONTROL MANAGER
14	TT2833	COMPUTER, Z440 WORKSTATION WINDOWS 7
14	T7885	MCAFFEE WINDOWS AV CLIENT
14	DDN1245	DUAL IRR SW USB HASP WITH LICENSE (VERSION 45)
14	DDN2134	SOUND BLASTER AUDIGY FX PCIE SOUND CARD
14	CDN6673	CREATIVE LABS INSPIRE A60
28	DDN9649	INSTANT RECALL RECORDER CABLE FOR MCC 7500
14	T7449	WINDOWS SUPPLEMENTAL TRANS CONFIG
14	DS22WBLK	22 INCH WIDE NON-TOUCH MONITOR, BLACK
14	B1933	MOTOROLA VOICE PROCESSOR MODULE
14	CA00140AA	ADD: AC LINE CORD, NORTH AMERICAN
14	CA01642AA	ADD: MCC 7500 BASIC CONSOLE FUNCTIONALITY SOFTWARE LICENSE
14	CA01643AA	ADD: MCC 7500 / MCC 7100 TRUNKING OPERATION
14	CA01644AA	ADD: MCC 7500 / MCC 7100 ADV CONVL OPERATION
14	CA00147AF	ADD: MCC 7500 SECURE OPERATION
14	CA00143AC	ADD: DES-OFB ALGORITHM
14	CA00182AB	ADD: AES ALGORITHM
14	CA00245AA	ADD: ADP ALGORITHM



QTY	NOMENCLATURE	DESCRIPTION
42	B1912	MCC SERIES DESKTOP SPEAKER
28	B1913	MCC SERIES HEADSET JACK
14	B1914	MCC SERIES DESKTOP GOOSENECK MICROPHONE
14	DSTWIN6328A	DUAL PEDAL FOOTSWITCH FOR USE WITH MOTOROLA MCC 7500
60	RMN5078B	SUPRAPLUS NC SINGLE MUFF HEADSET
16	RLN6098	HDST MODULE BASE W/PTT, 15' CBL
2	THN1012	RACK 7' OPEN
2	DS110110711	PDU, AC EDGE RACK MOUNT DISTRIBUTION PANEL, 120VAC 60A, 12-15A CIRCUIT
6	DS37502851	BREAKER KIT AIRPAX 15AMP SNAPAC, FOR AC EDGE OR DC EDGE III QTY 1
2	3182602Y06	GROUNDING BUS BAR
6	0784469Y02	BRKT, CBL SUPPORT
25	0300006963	SCR MCH 10-32X3/8 SLTBIN STL
4	2983724Y01	LUG, 2-HOLE RACK GND BAR
2	DSTSJADP	RACK MOUNT GROUND BAR, 19 IN FOR TSJ AND WPH SERIES DATA SPDS
4	DSTSJ100BT	EIGHT WIRE PROTECTION MODULE WITH RJ-48 PASS THROUGH & MECH GRD CONN
2	BLN6200	AC POWER STRIP, 6 OUTLET
1	F4543	SITE MANAGER BASIC
1	V266	ADD: 90VAC TO 260VAC PS TO SM
1	VA00874	ADD: AUX I-O SERV FW CURR ASTRO REL
3	V592	AAD TERM BLCK & CONN WI
1	T7038	GCP 8000 SITE CONTROLLER
1	CA00303AA	ADD: QTY (1) SITE CONTROLLER
1	X153AW	ADD: RACK MOUNT HARDWARE
1	CA01136AA	ADD: MCC 7500 CONVEN SITE OPER
1	CLN1856	2620-24 ETHERNET SWITCH
1	SQM01SUM0205	GGM 8000 GATEWAY
1	CA01616AA	ADD: AC POWER
1	CA02108AA	DIRECT SHIP
1	CA02087AA	ENCRYPTION (7.12 OR LATER)

August 14, 2015  
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to the restrictions on the cover page.

City of Detroit, Michigan  
Lyndon Dispatch  
PRR 53379



QTY	NOMENCLATURE	DESCRIPTION
1	CA02134AA	COMMON CRITERIA
1	CA02086AA	ADD: HIGH DENSITY ENH CONV GATEWAY
1	6406066M02	PANEL PUNCH BLOCK
4	DSS66M25T68L125R	SIX 4-PAIR MODULAR JACKS, ONE 25-PAIR FEMALE CONNECTOR, T568B
2	BLN6200	AC POWER STRIP, 6 OUTLET
1	F4543	SITE MANAGER BASIC
1	V266	ADD: 90VAC TO 260VAC PS TO SM
1	VA00874	ADD: AUX I-O SERV FW CURR ASTRO REL
3	V592	AAD TERM BLCK & CONN WI
1	T7038	GCP 8000 SITE CONTROLLER
1	CA00303AA	ADD: QTY (1) SITE CONTROLLER
1	X153AW	ADD: RACK MOUNT HARDWARE
1	CA01136AA	ADD: MCC 7500 CONVEN SITE OPER
1	CLN1856	2620-24 ETHERNET SWITCH
1	SQM01SUM0205	GGM 8000 GATEWAY
1	CA01616AA	ADD: AC POWER
1	CA02108AA	DIRECT SHIP
1	CA02087AA	ENCRYPTION (7.12 OR LATER)
1	CA02134AA	COMMON CRITERIA
1	CA02086AA	ADD: HIGH DENSITY ENH CONV GATEWAY
1	6406066M02	PANEL PUNCH BLOCK
4	DSS66M25T68L125R	SIX 4-PAIR MODULAR JACKS, ONE 25-PAIR FEMALE CONNECTOR, T568B
1	DSRM084A	FREEDOM RACK PLUS WITH 12-24 RAILS, 7 FT
1	DS110110711	PDU, AC EDGE RACK MOUNT DISTRIBUTION PANEL, 120VAC 60A, 12-15A CIRCUIT
4	DS37502851	BREAKER KIT AIRPAX 15AMP SNAPAC, FOR AC EDGE OR DC EDGE III QTY 1
2	DDN9748	19 INCH BLACK SHELF
1	3182602Y06	GROUNDING BUS BAR
3	0310917A36	SCRMCH M6X1X20 STRPAN STLZNC
3	1483693Y01	INSULATOR, RACK GROUND BAR

QTY	NOMENCLATURE	DESCRIPTION
25	0300006963	SCR MCH 10-32X3/8 SLTBIN STL
2	2983724Y01	LUG, 2-HOLE RACK GND BAR
2	BLN6200	AC POWER STRIP, 6 OUTLET
2	6406066M02	PANEL PUNCH BLOCK
8	DSS66M25T68L125R	SIX 4-PAIR MODULAR JACKS, ONE 25-PAIR FEMALE CONNECTOR, T568B
1	DSKVT417A8UVR2	SRVTRY 17" SCREEN, 8 VGA USB/PS2 PORTS W RMB2 RAIL
3	DSEHN9000U0006	6' SERVSWITCH EC-SERIES CPU CABLE
7	DSEHN9000U0015	15' SERVSWITCH EC-SERIES CPU CABLE
1	TT2668	10 SIMUL CALL MCC 7500 IP RECORDER
1	TT05601AA	ADD: IP LOGGING RECORDER FOR USE ON 7.13 SYSTEMS
4	TT05784AA	ADD: 10 SIMULTANEOUS CALL CAPACITY
1	T7449	WINDOWS SUPPLEMENTAL TRANS CONFIG
1	B1933	MOTOROLA VOICE PROCESSOR MODULE
1	CA00140AA	ADD: AC LINE CORD, NORTH AMERICAN
1	CA00288AB	ADD: MCC 7500 ARCHIVING INTERFACE SERVER SOFTWARE LICENSE
1	CA00147AF	ADD: MCC 7500 SECURE OPERATION
1	CA00143AC	ADD: DES-OFB ALGORITHM
1	CA00182AB	ADD: AES ALGORITHM
1	CA00245AA	ADD: ADP ALGORITHM
1	BLN1297	VPM POWER SUPPLY MOUNTING KIT
1	TT2833	COMPUTER, Z440 WORKSTATION WINDOWS 7
1	T7885	MCAFEE WINDOWS AV CLIENT
1	T7449	WINDOWS SUPPLEMENTAL TRANS CONFIG
1	DSWH340AA	HP XW4/Z2/Z4 ADJUSTABLE FIXED RAIL RACK KIT
2	TT2833	COMPUTER, Z440 WORKSTATION WINDOWS 7
2	T7885	MCAFEE WINDOWS AV CLIENT
2	T7449	WINDOWS SUPPLEMENTAL TRANS CONFIG
2	CDN6673	CREATIVE LABS INSPIRE A60
2	DDN9695	ADDL INFORM MONITOR CONCUR USER LIC
2	T8126	FORTINET FIREWALL APPLIANCE



QTY	NOMENCLATURE	DESCRIPTION
1	TT2833	COMPUTER, Z440 WORKSTATION WINDOWS 7
1	T7885	MCAFEE WINDOWS AV CLIENT
1	T7449	WINDOWS SUPPLEMENTAL TRANS CONFIG
1	DSWH340AA	HP XW4/Z2/Z4 ADJUSTABLE FIXED RAIL RACK KIT
1	BVN1013	MKM 7000 CONSOLE ALIAS MANAGER SOFTWARE
1	TT2833	COMPUTER, Z440 WORKSTATION WINDOWS 7
1	DS22WBLK	22" WIDE FORMAT LCD MONITOR BLACK, NON-TOUCH
1	B1934	MCC 7500 VOICE PROCESSOR MODULE FRU
1	CA00147AF	ADD: MCC 7500 SECURE OPERATION
1	CA00143AC	ADD: DES-OFB ALGORITHM
1	CA00182AB	ADD: AES ALGORITHM
1	CA00245AA	ADD: ADP ALGORITHM
1	BLN1297	VPM POWER SUPPLY MOUNTING KIT
1	01009513002	PWR SPLY 108W AC INP 12VDC OUT W18
1	3082933N08	GR500 AC POWER CORD
1	30009351001	DC CABLE ASSY
1	B1912	MCC SERIES DESKTOP SPEAKER
1	B1913	MCC SERIES HEADSET JACK
1	B1914	MCC SERIES DESKTOP GOOSENECK MICROPHONE
1	T7955	SDM3000 ALL CONFIGURATION SOFTWARE AND FIRMWARE TO CURRENT VERSION
1	DLN6569	FRU: GCP 8000/GCM 8000
1	DLN6781	FRU POWER SUPPLY
1	DLN6898	FRU: FAN MODULE
1	T8126	FORTINET FIREWALL APPLIANCE
1	T8128	FORTINET FIREWALL RECOVERY MEDIA
1	SQM01SUM0205	GGM 8000 GATEWAY
1	CA01616AA	ADD: AC POWER
1	CA02108AA	DIRECT SHIP
1	CA02087AA	ENCRYPTION (7.12 OR LATER)
1	CA02134AA	COMMON CRITERIA



QTY	NOMENCLATURE	DESCRIPTION
1	CA02086AA	ADD: HIGH DENSITY ENH CONV GATEWAY
1	CLN1856	2620-24 ETHERNET SWITCH
4	DSTSJ100BT	EIGHT WIRE PROTECTION MODULE WITH RJ-48 PASS THROUGH & MECH GRD CONN

## 8.2 RADIO SUBSCRIBERS / ACCESSORIES

Qty	Model	Description
1140	H98UCF9PW6 N	APX6000 700/800 MODEL 2.5 PORTABLE
1140	Q806	ADD: ASTRO DIGITAL CAI OPERATION
1140	H38	ADD: SMARTZONE OPERATION
1140	Q361	ADD: P25 9600 BAUD TRUNKING
1140	H869	ENH: MULTIKEY
1140	QA01837	ALT: LIION IMPRES IP67 2900MAH (NNTN7038)
1140	H122	ALT: 1/4- WAVE 7/800 GPS STUBBY (NAR6595A)
1140	Q887	ENH: 4 YR Sfs LITE
275	H98UCF9PW6 N	APX6000 700/800 MODEL 2.5 PORTABLE
275	Q806	ADD: ASTRO DIGITAL CAI OPERATION
275	H38	ADD: SMARTZONE OPERATION
275	Q361	ADD: P25 9600 BAUD TRUNKING
275	Q15	ADD: AES/DES-XL/DES-OFB ENCRYPTION
275	H869	ENH: MULTIKEY
275	QA01837	ALT: LIION IMPRES IP67 2900MAH (NNTN7038)
275	H122	ALT: 1/4- WAVE 7/800 GPS STUBBY (NAR6595A)
275	Q887	ENH: 4 YR Sfs LITE
1254	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK
275	RLN6554A	APX WIRELESS RSM W/ DUAL CHARGER
1556	NNTN7038B	BATT IMP STD IP67 LIION 2900M 3100T BLK
1556	NNTN7080A	APX 7000 IMPRES SINGLE UNIT CHARGER
25	PMLN7120A	DUAL UNIT CGARGER
25	PMNN4461A	BATT STD LIION 1800T
141	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY
141	NTN8266B	2.5" PLASTIC BELT CLIP ATTACHMENT
141	PMLN5709A	APX6000 UNIVERSAL CARRY HOLDER
1	T7553	FLASH UPGRADE KIT
10	QA00579AB	ENABLE DUAL BAND OPERATION
10	PMAS4001A	ANTENNA, UHF (380-520) /7-800 GPS

Qty	Model	Description
1	T7936	APX UCM UPGRADE
5	CA00182AR	ADD: AES ENCRYPTION SOFTWARE
1	T7936	APX UCM UPGRADE
5	CA00840AK	ADD: DES,DES-XL,DES-OFB

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## 8.3 REAL TIME INTELLIGENCE CONSOLE / INTELLIGENT DATA PORTAL

QTY	NOMENCLATURE	DESCRIPTION
		<b>VMS CONNECTORS</b>
5	CA02545AA	ADD RIC EVENT/INCIDENT/AVL SOURCE INTERFACE
2	CA02545AA	ADD RIC EVENT/INCIDENT/AVL SOURCE INTERFACE
		<b>FIXED AUTOMATIC LICENSE PLATE READER - QTY 5</b>
1	DSGSC-BASE 5.3	GENETEC SECURITY CENTER (GSC) BASE PKG
1	DSGSC-AV-S	AUTOVU STANDARD BASE PACKAGE
10	DSGSC-AV-S-1SHP	QTY (1) FIXED SHARP CAMERA CONNECTION
10	DSAU-K-GENERIC S -XGA	GENERIC SHARP XGA KIT INCL CABLE AND MOUNT
10	DSFIXE	110V/240V POWER SUPPLY FOR SHARP CAMERA
10	DSSMA-LPR-1Y	SMA FOR AUTOVU FIXED CAMERA
1	SQM01SUM0287	RIC/RTVI/CSDP HW & SW VM
		<b>LYNDON DISPATCH FACILITY &amp; RADIO TOWER SITE CAMERAS</b>
1	DSGENGSCBASE51	GENETEC SECURITY CENTER GSC BASE PACKAGE - VER 5.1
1	DSGENGSCOMS	GENETECH SECURITY CENTER STANDARD PACKAGE
6	DSGENGSCOMS1C	GENETEC SECURITY CENTER ONE CAMERA CONNECTION
1	DSGENSMA-BASE-1Y	GENETEC OMNICAST SMA BASE PCKG
6	DSGENSMACAMS1Y	GENETEC OMNICAST SMA STANDARD SV-16
1	DQBCDALOHA	BCDVIDEO ALOHA 380V8-M-VRP-C 12TB RM E5 2PROC 5YRNBD ADVLIC 2X300G
1	DQHPZ620RICWS	RIC Z620 WORKSTATION E5-2690
2	DSHPZ271MON	HP Z271 IPS MONITOR
1	GMDN5081A	AXIS COMM 5020-101 T8311 JOYSTICK
6	DSAXISPTZP5534-E	AXIS P5534-E HD PTZ OUTDOOR CAMERA
6	DSAXIS5502731	AXIS 5502-731 CABLE RJ45 OUTDOOR 5M CAT6 ETHERNET BLACK
6	DSDITEKDTKMRJPOE	DITEK DTK-MRJ-POE SURGE PROTECTOR
6	DSAXISMOUNTT91A62	AXIS T91A62 PARAPET MOUNT
6	GMDN5092A	AXIS COMM 5502-431 PENDANT KIT AXIS P5532 P5534 Q6032-E

QTY	NOMENCLATURE	DESCRIPTION
20	DSGENGSCOMS1C	GENETEC SECURITY CENTER ONE CAMERA CONNECTION
20	DSGENSMACAMS1Y	GENETEC OMNICAST SMA STANDARD SV-16
20	DSAXIS5502731	AXIS 5502-731 CABLE RJ45 OUTDOOR 5M CAT6 ETHERNET BLACK
19	DSAV20365DN	ARECONT 20 MEGAPIXEL DAY/NIGHT 360 PANORAMIC
20	DSDITEKDTKMRJPOE	DITEK DTK-MRJ-POE SURGE PROTECTOR
20	GMDN5092A	AXIS COMM 5502-431 PENDANT KIT AXIS P5532 P5534 Q6032-E
10	DSGENSV16V2-GSC-OM	SV16V2 WITH 500 GB SECURITY CENTER OMNICAST
10	GSC-1SCFED	1 FEDERATED SECURITY CENTER DIRECTORYCONNECTOR
1	DSAXISPTZP5534-E	AXIS P5534-E HD PTZ OUTDOOR CAMERA
1	DSDITEKDTKMRJPOE	DITEK DTK-MRJ-POE SURGE PROTECTOR
1	DSAV20365DN	ARECONT 20 MEGAPIXEL DAY/NIGHT 360 PANORAMIC
1	DSAU-K-GENERIC S-XGA	GENERIC SHARP XGA KIT INCL CABLE AND MOUNT
1	DSFIXE	110V/240V POWER SUPPLY FOR SHARP CAMERA
1	DSSMA-LPR-1Y	SMA FOR AUTOVU FIXED CAMERA
75	DSIDP	IDP LICENSES
75	DSIDP	IDP LICENSES
1	DSSDO-5000-SS	DIGITAL STAKEOUT SDO-5000-SS PRO PACKAGE 3

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# PRICING

## 9.1 APX 6000 MODEL 2.5 PORTABLE RADIO \$5,545,546

Qty	Description
Qty (1140) APX 6000 7/800 MHz Model 2.5 Portable	Includes ASTRO Digital CAI, Smartzone Operation, P25 9600 Baud Trunking, Mission Critical Wireless Bluetooth, ADP Encryption, Multikey, 2900 MAH Lilon Battery, Stubby Antenna, 4 Year SFS Lite Extended Warranty
Qty (275) APX 6000 7/800 MHz Model 2.5 Portable	Includes ASTRO Digital CAI, Smartzone Operation, P25 9600 Baud Trunking, Mission Critical Wireless Bluetooth, ADP & AES/DES-XL/DES-OFB Encryption, Multikey, 2900 MAH Lilon Battery, Stubby Antenna, 4 Year SFS Lite Extended Warranty

## 9.2 APX SUBSCRIBER ACCESSORIES \$497,635

Qty	Description
Qty (1254) IMPRES Remote Speaker Microphone w/ Audio Jack	Qty (1556) IMPRES 2900 MAH Lilon Battery
Qty (1556) APX6000 IMPRES Single Unit Charger	Qty (141) APX6000 Universal Carry Holder & Qty (141) Belt Clips
Qty (275) Bluetooth Speaker Microphone with Charger	Qty (25) Wireless RSM Dual Charger
Qty (25) Wireless RSM Battery	Qty (141) ¼ Wave Stubby Antenna
Qty (10) APX7000 Flash Kits	Qty (5) APX6500 Flash Kits

**Detroit Police Subscriber Radio & Accessory Total \$6,043,181**

### 9.3 MCC 7500 DISPATCH CONSOLES

**\$1,540,818**

Qty	Description
Qty (14) MCC 7500 IP Dispatch Consoles	Program Management, Engineering, ST Support, Decommission / Removal of Gold Elite Consoles, Installation of IP Consoles at Lyndon Dispatch
Network, Gateways, Logging Equipment	24 x 7 Warranty Support 1 <sup>st</sup> Year

**Lyndon Dispatch MCC7500 IP Consoles Total \$1,540,818**

### 9.4 REAL TIME CRIME CENTER

**\$1,730,993**

Qty	Description
Qty (5) VMS Connectors. Increases RTCC System total to (9)	Qty (2) Connectors for Tether Feeds from Wayne County Sheriff and MDOC
Qty (5) Fixed Automatic License Plate Readers to Support City's Traffic Enforcement Program	Qty (75) Additional IDP Users for Total of (100) With 2 Year Subscription
Qty (1) One Year Digital Stakeout Subscription	Qty (19) Security Cameras for Tower Site Monitoring
Qty (6) Security Cameras at Lyndon Dispatch Facility	Qty (1) RIC / IDP System Implementation & Engineering Services. Years 3-5 Maintenance on Phase I & 5 Years on Phase II RIC / IDP Systems

**Detroit Police Real Time Crime Center Total \$1,730,993**

### 9.5 EARLY AWARD INCENTIVE

Motorola is pleased to offer the Detroit Police Department an early award incentive for issue of a Purchase Order for replacement subscriber radios and accessories as listed. *For an award received by 09/30/2015 and shipped by 10/03/2015, Motorola will include the RIC/IDP solutions as proposed at no additional charge to the City of Detroit.*

Subscriber Radios / Accessories	\$ 6,043,181
MCC7500 Dispatch Consoles	\$ 1,540,818
RIC / IDP Expanded Functionality & System Maintenance	\$ 1,730,993
Subscribers / Consoles / RTCC Total	\$ 9,314,992
Additional Discount on MCC7500 Consoles	\$ (84,000)
Early Award Incentive	\$(1,730,993)
Project Total (Award by 09/30/2015)	\$ 7,499,999



## 9.6 PAYMENT SCHEDULE

All pricing quoted herein is consistent with discount levels established in Motorola's contract with the State of Michigan Department of Management and Budget, MiDEAL contract number 071B2200101 and is valid until **September 30, 2015**.

Except for a payment that is due on the Effective Date, Customer will make payments to Motorola within thirty (30) days after the date of goods and/or service delivery. Customer will make payments when due in the form of a check, cashier's check, or wire transfer drawn on a U.S. financial institution and in accordance with the following milestones.

Motorola reserves the right to make partial shipments of equipment and to request payment upon shipment of such equipment. In addition, Motorola reserves the right to invoice for installations or civil work completed on a site-by-site basis, when applicable.

