File No. 161266

## **COMMITTEE/BOARD OF SUPERVISORS**

AGENDA PACKET CONTENTS LIST

Committee: Budget & Finance Committee

Date February 2, 2017

Board of Supervisors Meeting

# Date February 14, 2017

## **Cmte Board**

|              |              | Motion                                                                 |
|--------------|--------------|------------------------------------------------------------------------|
| $\mathbf{X}$ | $\mathbf{X}$ | Resolution                                                             |
|              |              | Ordinance                                                              |
|              |              | Legislative Digest                                                     |
| X            | X            | Budget and Legislative Analyst Report                                  |
| <u> </u>     |              | Youth Commission Report                                                |
|              |              | Introduction Form                                                      |
| $\square$    | $\mathbf{X}$ | Department/Agency Cover Letter and/or Report                           |
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|              |              | Grant Information Form                                                 |
|              |              | Grant Budget                                                           |
|              |              | Subcontract Budget                                                     |
| $\mathbf{X}$ |              | Contract/Agreement                                                     |
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|              |              | Award Letter                                                           |
|              |              | Application                                                            |
|              |              | Application                                                            |
|              |              | Public Correspondence                                                  |
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| Completed by:_ | Linda Wong | Date_ | January 27, 2017 |
|----------------|------------|-------|------------------|
| Completed by:  | Linda Wong | Date  | February 6,2017  |

### FILE NO. 161266

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#### **RESOLUTION NO.**

[Airport Professional Services Agreement Modification No. 3 - Operation and Maintenance Services for the AirTrain System - Not to Exceed \$115,444,968]

Resolution approving Modification No. 3 to Professional Services Agreement, Airport Contract No. 8838, between Bombardier Transportation (Holdings) USA, Inc., and the City and County of San Francisco, acting by and through its Airport Commission, to exercise the first of two one-year options from March 1, 2017, through February 28, 2018, to provide operation and maintenance services for the AirTrain System, and cover the replacement of obsolete AirTrain parts and equipment, for a new not-toexceed amount of \$115,444,968, pursuant to Charter, Section 9.118(b).

WHEREAS, On September 16, 2008, pursuant to Resolution No. 08-0173, the Airport Commission awarded the Professional Services Agreement (PSA) to Bombardier Transportation (Holdings) USA, Inc., for a five (5) year initial term with one three (3) year option and two (2) additional one (1) year options to be exercised at the discretion of the Airport Commission, at an initial not to exceed amount of \$56,500,000; and

WHEREAS, On November 18, 2008, pursuant to Ordinance No. 266-08, the Board of Supervisors approved the PSA to Bombardier Transportation (Holdings) USA, Inc., to perform the maintenance and operation services of the AirTrain system in an amount not to exceed \$56,500,000 with a contingency budget of \$500,000 on file with the Clerk of the Board of Supervisors in File No. 080942, which is hereby declared to be a part of this resolution as if set forth fully herein; and

WHEREAS, On July 23, 2013, pursuant to Resolution No. 13-0156, the Airport Commission approved Amendment No. 1 to the Operation and Maintenance Services for the AirTrain System contract with Bombardier Transportation (Holdings) USA, Inc. to exercise the

three (3) year option to renew the PSA from March 1, 2014 through February 28, 2017 for the amount of \$42,200,000 for a new not to exceed contract amount of \$98,700,000; and

WHEREAS, On December 10, 2013, pursuant to Resolution No. 429-13, the Board of Supervisors approved Modification No. 1, increasing the not-to-exceed amount by \$42,200,000 for a new total not-to exceed contract value of \$98,700,000; and

WHEREAS, On May 19, 2014, pursuant to Resolution No. 14-0104, the Airport Commission approved Modification No. 2, increasing the not-to-exceed amount by \$1,848,174 to cover the replacement of obsolete AirTrain equipment and to provide a contingency fund for the replacement of any additional equipment over the three-year contract term for a new total not-to exceed contract value of \$100,548,174; and

WHEREAS, On September 9, 2014, pursuant to Resolution No. 328-14, the Board of Supervisors approved Modification No. 2, decreasing the not-to-exceed amount by \$4,340 for a new total not-to exceed contract value of \$100,543,834; and

WHEREAS, On November 1, 2016, pursuant to Resolution No. 16-0277, the Airport Commission approved Modification No. 3, increasing the not-to-exceed amount by \$14,901,134 to exercise the first 1-year option (March 1, 2017 through February 28, 2018) and cover the replacement cost of obsolete or worn out AirTrain parts and equipment for a new total not-to exceed contract value of \$115,444,968; and

WHEREAS, San Francisco Charter Section 9.118(b) provides that the agreements entered into by a department, board or commission requiring anticipated expenditures by the City and County of \$10,000,000, shall be subject to approval by the Board of Supervisors by resolution; and

WHEREAS, The Modification No. 3 is on file with the Clerk of the Board of Supervisors in File No. 161266, which is hereby declared to be a part of this resolution as if set forth fully herein; now, therefore, be it

RESOLVED, That the Board of Supervisors hereby approves Modification No. 3 to the Professional Services Agreement for Airport Contract 8838 – Operation and Maintenance Services for the AirTrain System between Bombardier Transportation (Holdings) USA, Inc. and the City and County of San Francisco, acting by and through its Airport Commission, increasing the not-to-exceed amount by \$14,901,134 to exercise the first 1-year option (March 1, 2017 through February 28, 2018) and cover the replacement cost of obsolete or worn out AirTrain parts and equipment for a new total not-to exceed contract value of \$115,444,968, copies of which are contained in Clerk of the Board of Supervisors' File No. 161266; and, be it

FURTHER RESOLVED, That within thirty (30) days of to the Modification No. 3 Professional Services Agreement for Airport Contract 8838 being fully executed by all parties, the Airport Commission shall provide the Modification No. 3 to the Clerk of the Board for inclusion into the official file.

Airport Commission BOARD OF SUPERVISORS

|    | m 8 Department:<br>e 16-1266 San Francisco International Airport (Airport)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EX | ECUTIVE SUMMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|    | Legislative Objectives                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| •  | The proposed resolution would approve the third modification to the existing contract between the Airport and Bombardier to (a) exercise the first of two (2) one-year options to extend the contract from March 1, 2017, through February 28, 2018, in order for Bombardier to provide operation and maintenance services for the AirTrain System, and (b) increase the contract not-to-exceed amount by \$14,901,134 from \$100,543,834 to \$115,444,968.                                                                                                                                                                                                       |
|    | Key Points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| •  | In March 1998, The Airport entered into a two-phase contract with Bombardier Transportation (Holdings) USA Inc. (Bombardier), based on a competitive Request for Proposals process, to (a) design, construct, and install the light rail air train system (AirTrain) and (b) operate and maintain the AirTrain system through February 2009. In November 2008, the Board of Supervisors approved a new five-year contract from March 2009 through February 2014, which included one option to extend the term of the contract by three years through February 2017, and two additional one-year options to extend the term of the contract through February 2019. |
| •  | Two modifications to the contract were subsequently approved by the Board of Supervisors; one in December 2013 to extend the contract by three years until February 2017, and a second in September 2014, which increased the not-to-exceed amount of the contract to \$100,543,834.                                                                                                                                                                                                                                                                                                                                                                              |
|    | Fiscal Impact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| •  | The proposed resolution would increase the existing not-to-exceed contract amount by \$14,901,134 from \$100,543,834 to \$115,444,968. The contract is funded from the Airport's Operating Funds and Capital Funds, as previously appropriated by the Board of Supervisors. The Airport's Operating Funds will cover the AirTrain operations and maintenance and contingency fund. The Airport has budgeted \$15,100,000 for the AirTrain operations and maintenance through FY 2017-18.                                                                                                                                                                          |
|    | Policy Consideration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| •  | As part of the 2008 lawsuit settlement, Bombardier must hit target average availability of 99.5 percent. Bombardier has maintained an average availability of 99.69 percent since start of operations in March 2003, and 99.70 percent since 2008.                                                                                                                                                                                                                                                                                                                                                                                                                |
|    | Recommendation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|    | Approve the proposed resolution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

#### BUDGET AND FINANCE COMMITTEE MEETING

## MANDATE STATEMENT

City Charter Section 9.118(b) states that any contract entered into by a department, board or commission that (1) has a term of more than ten years, (2) requires expenditures of \$10 million or more, or (3) requires a modification of more than \$500,000 is subject to Board of Supervisors approval.

#### BACKGROUND

In March 1998, The Airport entered into a two-phase contract with Bombardier Transportation (Holdings) USA Inc. (Bombardier), based on a competitive Request for Proposals process, to (a) design, construct, and install the light rail air train system (AirTrain) (Phase I) and (b) operate and maintain the AirTrain system through February 2009 (Phase II).

In December 2004, the Airport filed a lawsuit against Bombardier for contract delays and property damages. Parties to the lawsuit settled their dispute in April 2008. The settlement included a provision that allowed the Airport to recover costs if Bombardier did not meet performance incentives in the service contract for operations and maintenance. Per the settlement, the Airport would approve a five-year contract that would begin in March 2009 through February 2014.

In November 2008, the Board of Supervisors approved an ordinance (File 08-0942) that approved a new five-year contract, from March 2009 through February 2014, for Bombardier to operate and maintain the AirTrain system. The Board of Supervisors also exempted the contract from a competitive request for proposal process because the contract was awarded as a result of a legal settlement.

The new five-year contract included one option to extend the term of the contract by three years through February 2017, which was mandatory if Bombardier met performance benchmarks, and two additional one-year options to extend the term of the contract through February 2019 at the sole discretion of the Airport. The new five-year contract was for an amount not-to-exceed \$56,500,000.

In December 2013, the Board of Supervisors approved the first modification to the contract (File 13-0879) to exercise the option to extend the term of the contract by three years, from March 2014 through February 2017 and increase the total not-to-exceed contract amount by \$42,200,000 from \$56,500,000 to \$98,700,000.

In September 2014, the Board of Supervisors approved the second modification to the contract to increase the not-to-exceed amount by \$1,843,834 from \$98,700,000 to \$100,543,834 to replace outdated equipment and provide a contingency for equipment replacement and repair (File 14-0742).

SAN FRANCISCO BOARD OF SUPERVISORS

BUDGET AND LEGISLATIVE ANALYST

#### DETAILS OF PROPOSED LEGISLATION

The proposed resolution would approve the third modification to the existing contract between the Airport and Bombardier to (a) exercise the first of two (2) one-year options to extend the contract from March 1, 2017, through February 28, 2018, in order for Bombardier to continue to provide operation and maintenance services for the AirTrain System, and (b) increase the contract not-to-exceed amount by \$14,901,134 from \$100,543,834 to \$115,444,968.

Under the proposed third modification to the contract between the Airport and Bombardier, Bombardier will continue to operate and maintain the AirTrain system, including the maintenance and replacement of equipment within the train and stations.

#### **FISCAL IMPACT**

The proposed resolution would increase the existing not-to-exceed contract amount by \$14,901,134 from \$100,543,834 to \$115,444,968 in order to: (1) pay for AirTrain operations and maintenance through February 28, 2018; (2) replace old stanchions (support handles) in train cars; (3) replace obsolete station auto-locks; and (4) provide a \$100,000 contingency fund for unexpected expenditures. All of these tasks are detailed in Table 1 below.

| AirTrain Operations and Maintenance (Including contractual escalation, bonuses, and passenger count data management) | \$14,295,521 |
|----------------------------------------------------------------------------------------------------------------------|--------------|
| Replace old stanchions with new Tri-handle Stanchions                                                                | 291,659      |
| Replace obsolete station auto-locks with newly designed auto-locks                                                   | 213,954      |
| Contingency fund for replacement of unexpected items                                                                 | 100,000      |
| Total                                                                                                                | \$14,901,134 |

#### Table 1: AirTrain Proposed Increased Modification

#### AirTrain Operations and Maintenance

The budget for operations and maintenance from March 1, 2017 through February 28, 2018 is \$14,295,521, which is \$475,021 or 3.4 percent more than the current operations and maintenance budget of \$13,820,500. The operations and maintenance budget consists of (a) base cost of \$11,300,000, which has been the same since FY 2009-10; (b) annual escalation ;<sup>1</sup> (c) bonuses;<sup>2</sup> and (d) passenger count data management.

<sup>&</sup>lt;sup>1</sup> The escalation rate in FY 2016-17 is 3.29 percent and in FY 2017-18 is 2.27 percent.

<sup>&</sup>lt;sup>2</sup> The proposed third modification budget of \$14,901,134 includes \$139,326 for bonuses, which is the maximum bonus amount if Bombardier achieves all performance targets. Since FY 2009-10, Bombardier has not achieved the maximum bonus amount.

The contract is funded from the Airport's Operating Funds and Capital Funds, as previously appropriated by the Board of Supervisors. The Airport's Operating Funds will cover the AirTrain operations and maintenance and contingency fund. The Airport has budgeted \$15,100,000 for the AirTrain operations and maintenance through FY 2017-18.

#### POLICY CONSIDERATION -

As part of the 2008 lawsuit settlement, Bombardier must hit target average availability of 99.5 percent, meaning the AirTrain system must be available to passengers 99.5 percent of the time as averaged over a monthly period.<sup>3</sup> System availability is managed by an automated computer system called SIMS (Site Information Management System). Bombardier has maintained an average availability of 99.69 percent since start of operations in March 2003, and 99.70 percent since 2008.

#### RECOMMENDATION

Approve the proposed resolution.

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SAN FRANCISCO BOARD OF SUPERVISORS

BUDGET AND LEGISLATIVE ANALYST

<sup>&</sup>lt;sup>3</sup> If Bombardier exceeds an average of 99.8 percent or higher for the month they receive a bonus; if they fall below 99.5 percent for the month they are penalized.

#### City and County of San Francisco Airport Commission P.O. Box 8097 San Francisco, California 94128

#### Modification No. 3

THIS MODIFICATION (this "Modification") is made as of November 3, 2016, in San Francisco, California, by and between **Bombardier Transportation (Holdings) USA Inc.** ("Contractor"), and the City and County of San Francisco, a municipal corporation ("City"), acting by and through its Airport Commission or the Commission's designated agent, hereinafter referred to as "**Commission**."

#### RECITALS . ·

WHEREAS, City and Contractor have entered into the Agreement (as defined below); and

WHEREAS, City and Contractor desire to amend the Agreement on the terms and conditions set forth herein to address the replacement of obsolete equipment; and

WHEREAS, the Commission awarded this contract to Contractor on September 16, 2008, pursuant to an agreement to settle a dispute among the City and County of San Francisco, Bombardier Transportation (Holdings) USA, Inc., and Factory Mutual Insurance Company which was filed in the United States District Court for the Northern District of California, case number C 04-5307 PJH, and further pursuant to Resolution No. 08-0173; and

WHEREAS, on November 18, 2008, by Resolution No. 266-08, the Board of Supervisors approved the Agreement under San Francisco Charter Section 9.118; and

WHEREAS, Commission approved Modification No. 1 pursuant to Resolution No. 13-0156 on July 23, 2013; and

WHEREAS, on December 10, 2013, by Resolution No. 429-13, the Board of Supervisors approved the modification to the Agreement under San Francisco Charter Section 9.118; and

WHEREAS, Commission approved this Modification No. 2 pursuant to Resolution No. 14-0104 on May 19, 2014; and

WHEREAS, on September 9, 2014, by Resolution No. 328-14, the Board of Supervisors approved the modification to the Agreement under San Francisco Charter Section 9.118 but reduced the not to exceed amount by \$4,340 for a new not-to-exceed amount of \$100,543,834; and; and

WHEREAS, Commission approved this Modification No. 3 pursuant to Resolution No. 16-0277 on November 1, 2016; and

WHEREAS, on , by Resolution No. , the Board of Supervisors approved the modification to the Agreement under San Francisco Charter Section 9.118 for a new not-to-exceed amount of \$; and NOW, THEREFORE, Contractor and the City agree as follows:

1. **Definitions.** The following definitions shall apply to this Amendment:

a. Agreement. The term "Agreement" shall mean the Agreement dated September 16, 2008 between Contractor and City, as amended by the:

| Modification No. 1, | dated August 1, 2013; and |
|---------------------|---------------------------|
| Modification No. 2, | dated May 20, 2014.       |

b. Contract Monitoring Division. Effective July 28, 2012, with the exception of Sections 14B.9(D) and 14B.17(F), all of the duties and functions of the Human Rights Commission under Chapter 14B of the Administrative Code (LBE Ordinance) were transferred to the City Administrator, Contract Monitoring Division ("CMD"). Wherever "Human Rights Commission" or "HRC" appears in the Agreement in reference to Chapter 14B of the Administrative Code or its implementing Rules and Regulations, it shall be construed to mean "Contract Monitoring Division" or "CMD" respectively.

c. Other Terms. Terms used and not defined in this Modification shall have the meanings assigned to such terms in the Agreement.

2. Section 2. Term of the Agreement is hereby amended to extend the term of the contract for one year for a new ending date of February 28, 2018.

3. Section 4. Services Contractor Agrees to Perform of the Agreement is amended to address the replacement of obsolete equipment as detailed in Appendix G, Tasks 5 and 6.

4. Section 5. Compensation is hereby amended to increase the total compensation payable by an amount not to exceed Fourteen Million Nine Hundred One Thousand One Hundred Thirty Four Dollars (\$14,901,134) for a new total not to exceed amount of One Hundred Fifteen Million Four Hundred Forty Four Thousand Nine Hundred Sixty Eight Dollars (\$115,444,968).

5. New Section 32. Earned Income Credit (EIC) Forms is hereby replaced in its entirety with a New Section 32. Consideration of Criminal History in Hiring and Employment Decisions to read as follows:

32. Consideration of Criminal History in Hiring and Employment Decisions.

a. Contractor agrees to comply fully with and be bound by all of the provisions of Chapter 12T "City Contractor/Subcontractor Consideration of Criminal History in Hiring and Employment Decisions," of the San Francisco Administrative Code (Chapter 12T), including the remedies provided, and implementing regulations, as may be amended from time to time. The provisions of Chapter 12T are incorporated by reference and made a part of this Agreement as though fully set forth herein. The text of the Chapter 12T is available on the web at <a href="http://www.sfgov.org/olse/fco">www.sfgov.org/olse/fco</a>. A partial listing of some of Contractor's obligations under Chapter 12T is set forth in this Section. Contractor is required to comply with all of the applicable provisions of 12T, irrespective of the listing of obligations in this Section. Capitalized terms used in this Section and not defined in this Agreement shall have the meanings assigned to such terms in Chapter 12T.

b. The requirements of Chapter 12T shall only apply to the Contractor's or Subcontractor's operations to the extent those operations are in furtherance of the performance of this Agreement, and shall apply only to applicants and employees who would be or are performing work in

furtherance of this Agreement, whose employment is or would be in whole or in substantial part physically located in the City and County of San Francisco, which excludes Airport property.

1) Applicants or employees who would be or are performing work in furtherance of this Agreement may be required to be screened by the U.S. Department of Homeland Security for security badging. A rejection by the U.S. Department of Homeland Security of an applicant's or employee's security badging application, and the resulting inability of the Contractor to hire the applicant or assign the employee to perform services under this Agreement, shall not be considered an Adverse Action under Chapter 12T.

c. Contractor shall incorporate by reference in all subcontracts the provisions of Chapter 12T, and shall require all subcontractors to comply with such provisions. Contractor's failure to comply with the obligations in this subsection shall constitute a material breach of this Agreement.

d Contractor or Subcontractor shall not inquire about, require disclosure of, or if such information is received, base an Adverse Action on an applicant's or potential applicant for employment or employee's: (1) Arrest not leading to a Conviction, unless the Arrest is undergoing an active pending criminal investigation or trial that has not yet been resolved; (2) participation in or completion of a diversion or a deferral of judgment program; (3) a Conviction that has been judicially dismissed, expunged, voided, invalidated, or otherwise rendered inoperative; (4) a Conviction or any other adjudication in the juvenile justice system; (5) a Conviction that is more than seven years old, from the date of sentencing; or (6) information pertaining to an offense other than a felony or misdemeanor, such as an infraction.

e. Contractor or Subcontractor shall not inquire about or require applicants, potential applicants for employment, or employees to disclose on any employment application the facts or details of any conviction history, unresolved arrest, or any matter identified in subsection 32.4, above. Contractor or Subcontractor shall not require such disclosure or make such inquiry until either after the first live interview with the person, or after a conditional offer of employment.

f. Contractor or Subcontractor shall state in all solicitations or advertisements for employees that are reasonably likely to reach persons who are reasonably likely to seek employment to be performed under this Agreement, that the Contractor or Subcontractor will consider for employment qualified applicants with criminal histories in a manner consistent with the requirements of Chapter 12T.

g. Contractor and Subcontractors shall post the notice prepared by the Office of Labor Standards Enforcement (OLSE), available on OLSE's website, in a conspicuous place at every workplace, job site, or other location under the Contractor or Subcontractor's control at which work is being done or will be done in furtherance of the performance of this Agreement. The notice shall be posted in English, Spanish, Chinese, and any language spoken by at least 5% of the employees at the workplace, job site, or other location at which it is posted.

h. Contractor understands and agrees that if it fails to comply with the requirements of Chapter 12T, the City shall have the right to pursue any rights or remedies available under Chapter 12T, including but not limited to, a penalty of \$50 for a second violation and \$100 for a subsequent violation for each employee, applicant or other person as to whom a violation occurred or continued, termination or suspension in whole or in part of this Agreement.

6. New Section 58. Graffiti Removal is hereby replaced in its entirety with a New Section 58. Sugar-Sweetened Beverage Prohibition to read as follows:

**58.** Sugar-Sweetened Beverage Prohibition. Contractor agrees that it will not sell, provide, or otherwise distribute Sugar-Sweetened Beverages, as defined by San Francisco Administrative Code Chapter 101, as part of its performance of this Agreement.

7. Appendix E. Spare Parts, Tools, and Equipment List is hereby replaced in its entirety with the new Appendix E-2. Additional spare parts needed for the work contemplated under this modification will be added to the Spare Parts, Tools, and Equipment List at the next modification.

8. Appendix G. Appendix G is hereby amended to add Tasks 5 and 6 to address replacement of obsolete equipment covered under the contract. Performance of the Tasks in Appendix G is subject to mutually agreeable terms and conditions, which shall be established prior to the start of each task. Appendix G is also amended to correct an administrative error in the heading of Modification No. 2 Appendix G pages 1 of 8 and 2 of 8. The correct heading should have been "Task 1: AirTrain LED to LCD Sign Upgrade" not "Task 2: AirTrain UPS Replacement."

9. Effective Date. Each of the changes set forth in this Modification shall be effective on and after the date of this Modification.

10. Legal Effect. Except as expressly modified by this Modification, all of the terms and conditions of the Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, Contractor and City have executed this Amendment as of the date first referenced above.

| СІТҮ                                    | CONTRACTOR                                         |
|-----------------------------------------|----------------------------------------------------|
|                                         | UTITACIUN                                          |
| AIRPORT COMMISSION                      |                                                    |
| CITY AND COUNTY OF                      |                                                    |
| SAN FRANCISCO                           |                                                    |
|                                         |                                                    |
| By:<br>Ivar C. Satero, Airport Director | Mitholized Signature / Dimetta Faith               |
|                                         | Printed Name                                       |
| Attest;                                 | Vice President Secretas-<br>Title                  |
| Ву                                      | Develoption Transmostation (II aldin as) IICA Inc. |
| Jean Caramatti, Secretary               | Bombardier Transportation (Holdings) USA Inc.      |
|                                         | Company Name                                       |
| Airport Commission                      |                                                    |
|                                         | 40554                                              |
| Resolution No:                          | City Vendor Number                                 |
|                                         |                                                    |
| Adopted on:                             | 1501 Lebanon Church Road                           |
|                                         |                                                    |
|                                         | Address                                            |
|                                         |                                                    |
|                                         | Pittsburgh, PA 15236                               |
| Approved as to Form:                    | City, State, ZIP                                   |
|                                         |                                                    |
| Dennis J. Herrera                       | (412) 655-5700                                     |
| City Attorney                           |                                                    |
|                                         | Telephone Number                                   |
| Du Andena Manuelee                      | 25-1579550<br>Federal Employer ID Number           |
| By <u>matance/ level</u>                | -                                                  |
| Constance Menefee                       |                                                    |
| Deputy City Attorney                    |                                                    |
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| Part No      | Description                            | Qty  |
|--------------|----------------------------------------|------|
| 0899363G01   | CONTACT ASSEMBLY                       | 8    |
| 1018J06G03   | REVERSER TYPE XR-148 ELECTRO-PNEUMATIC | 2    |
| 1074F75G07   | BRAKE AIR COMPRESSOR 60HZ              | 2    |
| 1074F75H44   | MOTOR                                  | 2    |
| 1252A46H04   | RESISTOR 392 OHMS .250W 1% NA60        | 1    |
| 1252A46H15   | RESISTOR 511 OHMS .250W 1% NA60        | 2    |
| 1252A55H29   | RESISTOR 301K OHMS .250W 1% NA60       | 2    |
| 1252A80H21   | RESISTOR 1.62K OHMS .750W 1% NA70      | 4    |
| 1253A04H01   | RESISTOR 1 OHM 50W 1%                  | 4    |
| 1253A44H05   | TRANSISTOR 2N3715                      | 4    |
| 1253A44H15   | TRANSISTOR 2N6306                      | 2    |
| 1502F63G05   | GUIDE WHEEL ASSEMBLY                   | 8    |
| 1502F97G10   | WHEEL ASSEMBLY                         | 2    |
| 18D9633H01   | STD.CONTACT .62 LG COPPER EXTRUSION    | 8    |
| 1913F14G02   | MODIFIED MOUNTING BRACKET              | 6    |
| 1913F14G03   | MODIFIED MOUNTING BRACKET              | 12   |
| 1913F14G05   | MODIFIED MOUNTING BRACKET              | 12   |
| 1913F14H01   | MTG BRACKET 1) SIGNAL RAIL             | . 4  |
| 1913F14H05   | Shim                                   | 12   |
| 1913F14H06   | MTG BRACKET 1) LOCK PIN                | 4    |
| 1999E63G02   | DRAFTGEAR                              | 1    |
| 1999E63H01   | ELECTRICAL COUPLER HEAD ASSEMBLY       | 1    |
| 1999E63H02   | MECHANICAL COUPLER HEAD ASSEMBLY       | 1    |
| 1999E63H03   | CLAMP ASSEMBLY                         | 2    |
| 1A96918G01   | STD. UMC CONTRACTOR SHUNT AT ASSEMBLY  | 6    |
| 1A96920G01   | STD. UMC CONTACTOR INTERLOCK FINGER    | 10   |
| 1A97462792   | FUSE 5A 125V FAST-BLOWN PIG-TAIL       | 6    |
| 1A97462792   | FUSE 5A 125V FAST BL                   | 6    |
| 1A97462793   | THERMAL PAD SCR 2.44X 4.25             | 1    |
| 1A97462794   | THERMAL PAD SCR .81X                   | 2    |
| 1A97462794   | THERMAL PAD SCR .81X 3.64              | 1    |
| 1A97462799   | FUSE 500 VOLT 100 AMP                  | 2    |
| 1A97462801   | FUSE 600VAC 3A DUAL ELEM UL            | 4    |
| · 1A97462801 | FUSE 600VAC 3A DUAL ELEM UL            | 2    |
| 1A97462802   | CAP MET FOIL 70UF 280VAC               | 1    |
| 1A97462804   | SCR MODULE 90A 800V                    | 2    |
| 1A97462804   | SCR MODULE 90A 800V                    | 1    |
| 1A97599H04   | STATIC RAM CARD 24MB                   | 1    |
| 1A97601H01   | SECOND SERIAL PORT CABLE & KIT         | 1    |
| 1B37424H09   | DIODE ASSEMBLY 25A 200 PRV DA-180      | 2    |
| 1B38681G03   | DIODE ASSEMBLY                         | 4    |
| 1B38681G04   | DIODE ASSEMBLY                         | 4    |
| 1B38995G01   | SHOE ASSEMBLY                          | 3000 |
| 1B38996G01   | SHOE HOLDER POWER SUB ASSEMBLY         | 16   |
| 1B38997G01   | SHOE HOLDER ATO SUB-ASSEMBLY           | 64   |
| 1B39166G01   | 2 SLOT VME J2 BACKPLANE ASSEMBLY       | 1    |
| 1000101      | 2 SLOT VME 32 BACKPLANE ASSEMBLY       | 1    |

| Part No      | Description                                       | Qty   |
|--------------|---------------------------------------------------|-------|
| 1B39673H01   | SENTRONIC VALVE                                   | 4     |
| 1B39824G02   | RESISTOR ASSEMBLY                                 | 3     |
| 1B39825G02   | CAPACITOR ASSEMBLY                                | 2     |
| 1B39836G01   | ATO SHOE HOLDER SUPPORT ASSEMBLY                  | 16    |
| 1B39837G01   | POWER SHOE HOLDER SUPPORT ASSEMBLY                | 12    |
| 1B40194G03   | RESISTOR ASSEMBLY                                 | 2     |
| 1B40194G04   | RESISTOR ASSEMBLY                                 | 2     |
| 1B40194G05   | RESISTOR ASSEMBLY                                 | 3     |
| 1B40194G06   | DIODE ASSEMBLY                                    | 2     |
| 1B40194G07   | VOLTAGE REGULATOR ASSEMBLY                        | 2     |
| 1B40194G10   | RESISTOR ASSEMBLY                                 | 2     |
| 1B40194G11   | RESISTOR ASSEMBLY                                 | 2     |
| 1B40194G13   | DIODE ASSEMBLY                                    | 2     |
| 1B40488G01   | COLLECTOR CABLE ASSEMBLY                          | · 8   |
| 1B40488G02   | COLLECTOR CABLE ASSEMBLY                          | 8     |
| 1B40488G03   | COLLECTOR CABLE ASSEMBLY                          | 8     |
| 1B40488G04   | COLLECTOR CABLE ASSEMBLY                          | . 8   |
| 1B40811G06   | COLLECTOR CABLE                                   | 32    |
| 1B40820G01   | SFAA VEHICLE DYNAMIC GRAPHICS ASSEMBLY            | 0     |
| 1B40820G02   | SFAA VEHICLE DYNAMIC GRAPHICS ASSEMBLY            | 0 · . |
| 1B40820G03   | SFAA VEHICLE DYNAMIC GRAPHICS ASSEMBLY            | 0     |
| 1B40820G04   | SFAA VEHICLE DYNAMIC GRAPHICS ASSEMBLY            | 0     |
| 1B41300H01   | Trip shaft kit                                    | 2     |
| 1B41300H02   | Upper stud assembly                               | 3     |
| 1B41300H03   | Lower stud assembly                               | - 3   |
| 1B41300H04   | Elect. Operated Mechanism                         | 3     |
| 1B41300H05   | Shunt Trip Assembly                               | 3     |
| 1B41300H06   | Shunt Release Assembly                            | . 3   |
| 1B41300H07   | Anti-Pump Relay                                   | 3     |
| 1B41300H08   | Spring Charge Motor Kit                           | 3     |
| 1B41300H09   | Bussman Type FNQ-R Fuse, 2A, 600V                 | 6     |
| 1B41300H10   | Rating Plug, Digitrip T_10 Series, 800AS/600RP    | 4     |
| · 1B41300H11 | Rating Plug, Digitrip T_10 Series, 800AS/800RP    | 1     |
| 1B41300H12   | Rating Plug, Digitrip T_10 Series, 1600AS/1200RP  | 1     |
| 1B41300H13   | Rating Plug, Digitrip T_10 Series, 1600AS/1600RP  | 1     |
| 1B41300H14   | Fuse, class J, fast Acting, 3A, 600V              | 6     |
| 1B41300H15   | Bussman Type FRS Fuse, 20A, 600V                  | 6     |
| 1B41300H16   | Digitrip, 510 LSI                                 | 1     |
| 1B41300H17   | Digitrip, 510 LS                                  | 1     |
| 1B41300H18   | Bussman Type FNQ Fuse, 10A, 500V                  | 2     |
| 1B41300H19   | Bussman Type FNQ Fuse, 6A, 500V                   | 6     |
| 1B41300H20   | Fuse, 1A Class J                                  | 10    |
| 1B41301H01   | Temperature Monitor                               | · 1   |
| 1B41301H02   | Thermostat                                        | 2     |
| 1B41301H03   | Heater                                            | 6     |
| 1B41302H01   | Cutler Hammer Control Relay, 120VAC Coil, 2NO-2NC | 6     |
| 1B41302H02   | Time Mark Voltage Sensing Relay                   | 6     |

| Appendix E-2: Spar | e F | arts |  |
|--------------------|-----|------|--|
|--------------------|-----|------|--|

| Part No      | Description                                                   | Qty |
|--------------|---------------------------------------------------------------|-----|
| 1B41302H03   | Cutler Hammer Molded Case Circuit breaker, 3 Pole, 600V, 600A | 2   |
| 1B41302H04   | Cutler Hammer Motor Operator, 120 VAC                         | 2   |
| 1B41302H05   | Cutler Hammer Molded Case Circuit breaker, 1 Pole, 15A        | 2   |
| 1B41302H06   | Gould Time Delay Fuse, 600V, 1A                               | 15  |
| . 1B41303H01 | C-H 240 VAC Relay                                             | 1   |
| 1B41303H02   | C-H 240 VAC Reversing Contactor                               | 1   |
| 1B41303H03   | ITI Voltage Transformer 600V/120V                             | 2   |
| 1B41303H04   | Bussman Type FNQ-R Fuse, 2A, 600V                             | 6   |
| 1B41303H05   | ITI VT, 50 VA, 600/120                                        | 3   |
| 1B41303H06   | Ohmite Resistor, 1000 Ohm, 175W                               | 2   |
| 1B41303H07   | Honeywell Thermostat, 40-80 Degree F                          | 1   |
| 1B41303H08   | Space Heater, 250-375W / 125V-95W                             | . 1 |
| 1B41303H09   | CSM Customer Supplied Material (Vital Relays)                 | 1   |
| 1B41303H10   | 15A/1P Circuit Breaker                                        | 3   |
| 1B41303H11   | 10A/2P Circuit Breaker                                        | 1   |
| 1B41303H12   | 25A/1P Circuit Breaker                                        | 1   |
| 1B41303H13   | 15A/2P Circuit Breaker                                        | 1   |
| 1B41303H14   | Timemark 3 PH Monitor, 50 VAC PH-N                            | 1   |
| 1B41303H15   | C-H E22 2 POS Switch, Rotate 90 Degree                        | 2   |
| 1B41303H16   | Breaker Control SW                                            | 2   |
| 1B41303H17   | C-H D15 Relay, 120 VAC                                        | 4   |
| 1B41303H18   | Agastst On-Delay Timer 120V                                   | 1   |
| 1B41303H19   | GE Voltage Relay                                              | 1   |
| 1B41303H20   | Timemark 3 Phase Power Monitor                                | 2   |
| 1B41303H21   | Timemark Current Unbalance Relay                              | 2   |
| 1B41303H22   | Basler Reverse Power Relay                                    | 2   |
| 1B41303H23   | Ind Lt, 22MM Resistor Type, 120 VAC/DC                        | 3   |
| 1B41303H24   | Bussman Type FNQ Fuse, 6A, 500V                               | 6   |
| 1B41303H25 . | Class J Fuse, 3A, 600V                                        | 6   |
| 1B41303H26   | Lightning Secondary Arresters, 3P, 650 V                      | 4   |
| 1B41303H27   | Bussmann Type LPJ Fuse, 1A, 600V                              | -12 |
| 1B41303H28   | Square D Circuit Monitor                                      | 1   |
| 1B41303H29   | DSII Breaker Cell SW 3-NO, 3-NC                               | 3   |
| 1B41303H30   | Bussmann Type FRS-R Fuse, 20AA, 600V                          | 4   |
| 1B41303H31   | CPT, 56KV, 600/120-240V with Fuse Puller                      | 1   |
| 1B41303H32   | Bussman Type FNQ Fuse, 10A, 500V                              | 4   |
| 1B41303H33   | C-H breaker 150A/3P 100KAIC                                   | 1   |
| 1B41303H34   | C-H breaker 100A/3P 100KAIC                                   | 1   |
| 1B41303H35   | C-H breaker 30A/3P 100KAIC                                    | 1   |
| 1B41303H36   | C-H breaker 200A/3P 100KAIC                                   | 1   |
| 1B41303H37   | Crompton Voltage Relay, 120 VAC                               | 3   |
| 1B41303H38   | 3PH Current Transformer, 1000/5A                              | 2   |
| 1B41303H39   | Contact Block for D15 Relay, 4-NO                             | . 2 |
| 1B41303H40   | C-H D15 Relay, 4 N-O, 120 VAC                                 | 3   |
| 1B41303H41   | GFR Relay, 1-12 A, Electric Reset                             | 1   |
| 1B41303H42   | GFR Sensor 1-12 A, 5.5 Dia                                    | 1   |
| 1B41303H43   | AgastatTimer (64GFS)                                          | 1   |

| Part No    | - Description                                 | Qty |
|------------|-----------------------------------------------|-----|
| 1B41303H44 | Contact Block for D15 Relay                   | 1   |
| 1B41303H45 | D15 Relay On/Off Delay Timer Module, 0.1-30 S | 1   |
| 1B41303H46 | DSII-516                                      | 1   |
| 1B41303H47 | DSII-508                                      | 1   |
| 1B41304H01 | Agastat Time Delay Relay                      | · 3 |
| 1B41304H02 | Breaker GHC 1 Pole 15 A                       | 4   |
| 1B41304H03 | Breaker GHC 1 Pole 30 A                       | 2   |
| 1B41304H04 | Cap Trip Device 120 VAC                       | 4   |
| 1B41304H05 | Diode 400V PRV 40A                            | 4   |
| 1B41304H06 | Relay MG-6 125V DC, Open EL Rst               | 2   |
| 1B41304H07 | Thermostat, Fixed 110 F/43.3                  | 1   |
| 1B41304H08 | S-D Relay 2120V/60Hz, DPDT, 12 Pin            | 3   |
| 1B41304H09 | CT 600:5 C100                                 | 3   |
| 1B41304H10 | Fuse 15.5 KV 0.5 E                            | 6   |
| 1B41304H11 | Pull Fuse 3 Pole 30 A                         | 1   |
| 1B41304H12 | Fuse 6 A Control                              | 8 . |
| 1B41304H13 | MOC, 9-P, 5A-4B Conn Only                     | 3   |
| 1B41304H14 | Arrester, 9KV Station Class                   | 6   |
| 1B41304H15 | Voltage Xfrm, VIZ-11, 7200-120V               | 3   |
| 1B41304H16 | 36W Breaker Ramp Assy                         | 1   |
| 1B41304H17 | Rail Clamp, VCP-W                             | 2   |
| 1B41304H18 | Test Jumper, Ten Conductor VCP                | 1   |
| 1B41304H19 | E22 Bulb Removal Tool                         | 5   |
| 1B41304H20 | Breaker 150 VCP-W 500 1200 A                  | 3   |
| 1B41304H21 | Snubber - 5 or 15 KV 1200A Main               | 2   |
| 1B41305H01 | 125 VDC/120VAC Spring Charging Motor          | 1   |
| 1B41305H02 | 125 VDC/120VAC Spring Release Coil            | 1   |
| 1B41305H03 | 120VAC Anti-Pump Y Relay                      | 1   |
| 1B41305H04 | Motor Cut-off Switch                          | 1   |
| 1B41305H05 | Position Switch                               | 1   |
| 1B41305H06 | Auxiliary Switch                              | 1   |
| 1B41305H07 | Fastener Kit                                  | 1   |
| 1B41305H08 | Rectifier Assy                                | 1   |
| 1B41305H09 | 1200A Push Rod Assy                           | 1   |
| 1B41305H10 | 1200A Primary Contact Assy                    | 6   |
| 1B41306H01 | BKR CONT SW 24 1C, 1T Non-Pull                | . 2 |
| 1B41306H02 | E22 Contact Block 1NC                         | 2   |
| 1B41306H03 | IND LT E22 Green 48V                          | 3   |
| 1B41306H04 | IND LT E22 Red 48V                            | 3   |
| 1B41306H05 | REL LOR-24, 125VDC, 4A/4B, 2-ST               | 2   |
| 1B41306H06 | Resistor 40200hm 5W                           | 3   |
| 1B41306H07 | Switch W2, 2Pos, 8 Poles                      | 2   |
| 1B41306H08 | Switch W2, 2Pos, 8 Poles                      | 1   |
| 1B41306H09 | BE1-27/59, 1PH, 55-160VAC, 125 V              | 1   |
| 1B41320H02 | FUSE 500 VOLT 50 AMP                          | 2   |
| 1B41320H04 | SCR 3 PHASE BRIDGE 1200V 110A                 | . 1 |
| 1B41320H05 | THERMAL PAD SCR 3.70X 1.34                    | 1   |

| Part No                  | Description                    | Qiy- |
|--------------------------|--------------------------------|------|
| 1B41320H06               | FUSE SUBMIN .1A                | 6    |
| 1B41320H12               | CAP 3700UF 450VDC              | 1    |
| 1B41320H12               | CAP 3700UF 450VDC              | 1    |
| 1B41320H13               | IGBT DUAL 600V 150A            | 2    |
| 1B41320H15               | FUSE 2-12A 125V PICO AX.LEAD   | 6    |
| 1B41320H15               | FUSE 2-12A 125V PICO AX.LEAD   | 4    |
| 1B41320H18               | PWB ASSY TRANSIENT SUPPRESSOR  | 1    |
| 1B41320H18               | PWB ASSY TRANSIENT SUPPRESSOR  | 1    |
| 1B41320H19               | PWB ASSY RECTIFIER DRIVE       | 1    |
| 1B41320H20               | PWB ASSY POWER SUPPLY          | . 1  |
| 1B41320H20               | PWB ASSY POWER SUPPLY          | 1    |
| 1B41320H21               | PWB ASSY UPS INTFC             | 1    |
| 1B41320H21               | PWB ASSY UPS INTFC             | 1    |
| 1B41320H22               | PWB ASSY SBS DRIVE             | 1    |
| 1B41320H22               | PWB ASSY SBS DRIVE             | 1    |
| 1B41320H23               | PWB ASSY POWER BOARD           | 1    |
| 1B41320H24               | PWB ASSY PWR BOOSTER           | 1    |
| 1B41320H25               | PWB ASSY DISPLAY BOARD         | 1 .  |
| 1B41320H25               | PWB ASSY DISPLAY BOARD         | . 1  |
| 1B41320H26               | FUSE 500 VOLT 150AMP           | 2    |
| 1B41320H31               | IGBT DUAL 600V 400A            | 1    |
| 1B41320H32               | PWB ASSY INV. DRIVE            | 1    |
| 1B41320H33               | PWB ASSY                       | 1    |
| 1B41320H34               | FUSE 70A 600V                  | 3    |
| 1B41320H35               | PWB ASSY RECTIFIER DRIVE       | 1    |
| 1C40468H04               | CAM .63) 7.00 DIA              | 1    |
| 1C40483G15               | RESISTOR TUBE RIBFLEX 7.5 OHMS | 4    |
| 1C40540G01               | AIR COMPRESSOR - GENL ASSEMBLY | 0    |
| 1C40570G04               | SWITCH & REPLACEMENT PARTS     | 1    |
| 1C40570H02               | REPLACEMENT BLOCK              | 2    |
| 1C40570H04               | REPLACEMENT HEAD               | 2    |
| 1C40811177               | RELAY                          | 8    |
| 1C40811H02               | MOTOR & GEAR HOUSING ASS'Y     | 2    |
| 1C40811H07               | SWITCHLEVER                    | 16   |
| 1C40811H19               | SWITCH SNAP ACTION             | 8    |
| 1C40811H20               | BUMPER                         | 24   |
| 1C40811H23               | RES ADJ 100W 10% 5 OHMS        | 10   |
| 1C40811H27               | RING RET EXT                   | 30   |
| 1C40811H28               | RES ADJ 100W 10% 10 OHMS       | 10   |
| 1C40811H29               | RES ADJ 100W 10% 20 OHMS       | 10   |
| 1C40811H50               | PIN ROLL .125X1.25             | 50   |
| 1C40811H63               | VARISTOR ASS'Y                 | 8    |
| 1C40811H64               | RECTIFIER ASS'Y                | 8    |
| 1C40811H98               | MOTOR & GEAR HOUSING ASS'Y     | 2    |
| 1C408111D8<br>1C41229H01 | CONTACT SWITCH 1)              | 2    |
| 1C41229H02               | CONTACT SWITCH 1)              | 2    |
| 1C41229H02               | CONTACT BLOCK 1)               | 4    |
| 10712471105              |                                | -T   |

| - Part No                | Description                                     | Qty |
|--------------------------|-------------------------------------------------|-----|
| 1C41448H01               | SWITCH - PRESSURE WAVE                          | 8   |
| 1C41537H01               | TRANSFORMER (CURRENT)                           | 2   |
| 1C41706G01               | LOGIC CRADLE FAN ASS'Y                          | 0   |
| 1C41710H01               | EL BREAKER 2 POLE                               | 2   |
| 1C41773G07               | ANTENNA INSTALLATION                            | 2   |
| 1C41821H01               | PRESSURE REGULATOR                              | 3   |
| 1C41830H01               | AD-9 AIR DRYER                                  | 2   |
| 1C41830H03               | DESICCANT CARTIDGE                              | 19  |
| 1C41830H05               | PURGE VALVE MAINTENANCE KIT                     | 38  |
| 1C41830H06               | 24 VOLT HEATER & THERMOSTAT ASS'Y               | 2   |
| 1C42642G01               | DIODE ASSEMBLY                                  | 2   |
| 1C42642G02               | DIODE ASSEMBLY                                  | 4   |
| 1Ċ42875H02               | MOUNTING RAIL 1)                                | 1   |
| 1C43432H01               | VIDEO DRIVER BOARD 1)                           | 1   |
| 1C44327H01               | TRANSFORMER ENCAPSULATED                        | 2   |
| 1C44610G01               | PC BOARD FLEXIBLOK VEHICLE DIG IN ASSY          | 2   |
| 1C44610G02               | PC BOARD FLEXIBLOK VEHICLE DIG IN ASSY          | 2   |
| 1C44610G03               | PC BOARD FLEXIBLOK VEHICLE DIG IN ASSY          | 2   |
| 1C44612G01               | PC BOARD FLEXIBLOK REGION ATP CPU ASSY          | 2   |
| 1C44612G02               | PC BOARD FLEXIBLOK REGION ATP CPU ASSY          | 2   |
| 1C44613G01               | PC BOARD FLEXIBLOK REG SER COMM ASSY            | 2   |
| 1C44615G01               | PC BOARD FLEXIBLOK REGION DIG INPUT ASSY        | 2   |
| 1C44615G01               | PC BOARD FLEXIBLOK REGION DIG INPUT ASSY        | 1   |
| 1C44615G02               | PC BOARD FLEXIBLOK REGION DIG INPUT ASSY        | 2   |
| 1C44615G03               | PC BOARD FLEXIBLOK REGION DIG INPUT ASSY        | 2   |
| 1C44615G08               | PC BOARD FLEXIBLOK REGION DIG INPUT ASSY        | 2   |
| 1C44615G08               | PC BOARD FLEXIBLOK REGION DIG INPUT ASSY        | 1   |
| 1C44615G09               | PC BOARD FLEXIBLOK REGION DIG INPUT ASSY        | 2   |
| 1C44615G10               | PC BOARD FLEXIBLOK REGION DIG INPUT ASSY        | 2   |
| 1C44633G01               | FLEXIBLOK WAYSIDE COMM PROCESSOR ASSY           | 2   |
| 1C44676G01               | MANUAL ENABLE SWITCH PLATE ASSEMBLY             | 1   |
| 1C44701G01               | PC BOARD FLEXIBLOK VEHICLE ATP CPU ASSY         | 2   |
| 1C44701G01               | PC BOARD FLEXIBLOK VEHICLE ATP CPU ASSY         | 2   |
| 1C44702G01               | PC BOARD FLEXIBLE VEH SER COM PRCSR ASSY        | · 2 |
| 1C44810G01               | WIPER MOTOR ASSEMBLY                            | 2   |
| 1C44955G01               | LIGHT PANEL ASSEMBLY                            | 2   |
| 1C45405H06               | TEMPERATURE SENSOR                              | 4   |
| 1C45770G01               | FLEXIBLOK REGION SOURCE DIG OUT PC BOARD        | 2   |
| 1C45770G01               | PC BOARD FLEXIBLOK REGION SOURCE DIG OUT        | 2 . |
| 1C45770G02               | FLEXIBLOK REGION SOURCE DIG OUT PC BOARD        | 2   |
| 1C45770G02               | FLEXIBLOK REGION SOURCE DIG OUT PC BOARD        | 2   |
| 1C45770G03               | FLEXIBLOK REGION SOURCE DIG OUT PC BOARD        | 2   |
| 1C45771G01               | FLEXIBLOK REGION SOURCE DIG OUT PC BOARD        | 2   |
| 1C45771G01<br>1C45771G01 | PC BOARD FLEXIBLOK REGION SINK DIG OUT PC BOARD |     |
|                          |                                                 | 1   |
| 1C45771G02               | FLEXIBLOK REGION SINK DIG OUT PC BOARD          | 2   |
| 1C45771G03               | FLEXIBLOK REGION SINK DIG OUT PC BOARD          | 2   |
| 1C45771G04               | FLEXIBLOK REGION SINK DIG OUT PC BOARD          | 2   |

| Description                       | Qiy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| ROUTER MODULE ASSEMBLY            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| ADJUSTABLE PRESSURE SWITCH #604G1 | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                   | ROUTER MODULE ASSEMBLY<br>ROUTER MODULE ASSEMBLY<br>ALARM SWITCH ASSEMBLY<br>NORMING POINT READER ASSEMBLY<br>TRAIN REGISTRY 68040 CPU<br>TRAIN REGISTRY 68040 CPU<br>TRAIN REGISTRY SER COMM PRCSR<br>TRAIN REGISTRY WAYSIDE COMM PRCSR<br>TRAIN REGISTRY WAYSIDE COMM PRCSR<br>FIBER OPTIC RACK ASSEMBLY<br>MTG BRACKET FIBERGLASS MOLD<br>MTG BRACKET FIBERGLASS MOLD - HIGH STR<br>Knuckle<br>VARISTOR SUPPRESSION DEVICE<br>TRAIN REGISTRY CABINET<br>REGION ATP VME CRADLE ASSY<br>PC BOARD BATTERY CHARGER & PULSE<br>P C BOARD BATTERY CHARGER & PULSE<br>P C BOARD BATTERY CHARGER AND PHASE<br>RESISTOR ASSEMBLY<br>GENL ASSEMBLY DUAL OUTPUT P-SIGNAL GEN<br>GENL ASSEMBLY DUAL OUTPUT P-SIGNAL GEN<br>CONTACT ASSEMBLY<br>HIGH SPEED RAMP ASSY LEFT HANF (LEXAN)<br>HIGH SPEED RAMP ASSY RIGHT HAND (LEXAN)<br>Center Assembly, pivot beam<br>P C BOARD PROP. MONITOR PANEL LED ASSY<br>BRUSH HOLDER ASSEMBLY<br>CAPACITOR MOUNTING ANGLE AND ASSEMBLY<br>CAPACITOR ASSEMBLY<br>LEAF SPRING ASSEMBLY<br>P C BOARD P SIG & BKK SIG GEN PWR ASSY<br>P C BOARD DYNAMIC BRAKE GATE ASSEMBLY<br>P C BOARD D SIG & BKK SIG GEN PWR ASSY<br>P C BOARD D SIG & BKK SIG GEN PWR ASSY<br>P C BOARD D SIG & BKK SIG GEN PWR ASSY<br>P C BOARD D OOR RECEIVER/DRIVER ASSEMBLY<br>P C BOARD D SIG & BKK SIG GEN PWR ASSY<br>P C BOARD DOOR RECEIVER/DRIVER ASSEMBLY<br>P C BOARD DOOR RECEIVER/DRIVER ASSEMBLY<br>P C BOARD DOOR RECEIVER/DRIVER ASSEMBLY<br>P C BOARD ASSEMBLY<br>P C BOARD DOOR RECEIVER/DRIVER ASSEMBLY<br>P C BOARD DOOR RECEIVER/DRIVER ASSEMBLY<br>P C BOARD MANUAL CONTROLLER 15V<br>P C BOARD ASSEMBLY<br>P C BOA |

| Part No      | - Description                            | - Qiy |
|--------------|------------------------------------------|-------|
| 2534B39H02   | ADJUSTABLE PRESSURE SWITCH #604G11       | 6     |
| 2534B78H02   | MANUAL VALVE FULL PORT                   | 2     |
| 2534B78H03   | MANUAL VALVE FULL PORT                   | 2     |
| 2535F20G01   | BATTERY BOX ASSEMBLY                     | 0     |
| 2536B52H03   | HUBODOMETER SIZE 10 X 22.5 MICHELIN      | 2     |
| 2537B93G01   | RESISTOR ASSEMBLY                        | 2     |
| 2538B14H01   | WINDOW GLAZING RBR EXTRN 160.00+/-2.00)  | 32    |
| 2538B23G01   | RESISTOR ASSEMBLY                        | 3     |
| 2538B23G02   | RESISTOR ASSEMBLY                        | 2     |
| 2539B87H01   | DUST SHIELD FR .06 THK HALF HARD AL SHT  | 2     |
| 2559A61H06   | GROMMET .50 ID .06 PNL                   | 20    |
| 2559B24G01   | TEMPERATURE SENSOR                       | 2 .   |
| 2560B11G01   | DRIVE SHAFT ASSEMBLY                     | 2     |
| 2560B16H02   | EXTINGUISHER (FIRE)                      | 4     |
| 267P636G01   | PC BOARD DUAL P. SIGNAL GENERATOR ASSY   | 2     |
| 267P680G01   | PC BOARD TRANSMITTER ASSEMBLY            | 3     |
| 267P858G02   | PC BOARDPOWER SUPPLY ASSEMBLY            | 2     |
| 267P926G01   | PC BOARD OVERVOLTAGE CIRCUIT ASSEMBLY    | 2     |
| 2682F59G01   | TOP DOOR TRACK R/H                       | 0     |
| 2682F59G02   | TOP DOOR TRACK L/H                       | 0     |
| 2682F59H03   | CAP RETAINER .125 THK STL                | 50    |
| 2687F29G01   | CURRENT COLLECTOR ASSY (R/HAND)          | 8     |
| 2687F29G02   | CURRENT COLLECTOR ASSY (L/HAND)          | 8     |
| 2688F16G03   | I.D. RECEIVE ANTENNA ASSEMBLY            | 2     |
| 2688F16G04   | I.D. TRANSMIT ANTENNA ASSEMBLY           | 2     |
| 2688F17G01   | TYPE XMA-559 MANUAL CONTROLLER           | 3     |
| 268P052G01   | PC BOARD BRUSH DETECTOR                  | 2     |
| 268P060G01   | PC BOARD ATC CRADLE MOTHERBOARD ASSEMBLY | 1     |
| 2698A54H05   | MAGNETIC HALL EFFECT SENSOR              | 5     |
| 2973A52G03   | DIODE ASSEMBLY                           | . 3   |
| 2973A52G04   | DIODE ASSY                               | 2     |
| 3437C83G02   | RADIUS ROD ASSEMBLY                      | 2     |
| 3437C85H03   | TIRE 10R-22.5 TRANSTEEL RADIAL           | 304   |
| 3437C97G01   | SWITCH BOARD ASSEMBLY                    | 0     |
| 3911C41H03   | PRESSURE RELIEF                          | 4     |
| 3925A65H01   | RELIEF VALVE                             | 4     |
| 3925A66H04   | AIR CHECK VALVE                          | 4     |
| 3925A67H03   | VALVE QUICK RELEASE                      | 12    |
| 3925A67H04   | REBUILD KIT QUICK RELEASE VALVE          | 12    |
| 3925A67H05   | SEALING RING QUICK RELEASE VALVE         | 12    |
| 3925A67H06   | DIAPHRAGM QUICK RELEASE VALVE            | 12    |
| 3925A67H07   | INSERT QUICK RELEASE VALVE               | 12    |
| 3925A86H02   | RELAY VALVE                              | 4     |
| 3925A87H01   | VALVE PRESSURE HOLDING                   | 2     |
| 3926A37H01   | TRANSFORMER SIGNAL OR PULSE              | 3     |
| 3926A72H01   | RESISTOR 10 OHMS 11W 5% TYPE 99          | 2     |
| · 3926A89H01 | TRANSFORMER SIGNAL OR PULSE              | 3     |

| Part No.   | Description                               | Qty |
|------------|-------------------------------------------|-----|
| 3927A03H21 | CAPACITOR 1.0 UF 100 V +-5%               | 2   |
| 3927A06H41 | RESISTOR 120 1/4W 5% RC07                 | 4   |
| 3927A06H67 | RESISTOR 1.5K 1/4W 5% RC07                | 2 . |
| 3927A08H56 | RESISTOR 510 OHMS 1W 5% TYPE RC 32        | 2   |
| 3927A22H01 | TRANSFORMER                               | 2   |
| 3930A47H04 | TRANSFORMER POWER                         | 4   |
| 3968C17H04 | PUSHBUTTON (S.P.D.T.) CAT#OT1C1A          | 2   |
| 3968C50G02 | ARMATURE ASSEMBLY                         | . 0 |
| 3972C53G01 | GATE LEAD PANEL                           | 4   |
| 3972C86H01 | RIM (PAINTED)                             | 8   |
| 3973C13H01 | CHOKE                                     | 2   |
| 3973C14H01 | TRANSFORMER 575/36/36                     | 2   |
| 3973C86H12 | KEYSWITCH                                 | 2   |
| 3973C86H13 | PUSHBUTTON                                | 2   |
| 3A62819H01 | DISK DRIVE                                | 1   |
| 3A63290H29 | PIN COTTER .125 X 1.00 LG ZINC YEL CRMT   | 200 |
| 3A63290H31 | PIN COTTER .125 X 1.50 LG ZINC YEL CRMT   | 100 |
| 3A63407G01 | CAPACITOR W/MTG BRACKETS (660 VOLT)       | 4   |
| 3A63565H03 | CAPACITOR 50UF 370VA                      | 1   |
| 3A63565H03 | CAPACITOR 50UF 370VA                      | 1   |
| 3A63565H04 | FUSE 1/2A 500VAC TIM                      | 2   |
| 3A63565H04 | FUSE 1/2A 500VAC TIME DELAY               | · 2 |
| 3A63565H05 | FUSE 2A 500VAC TIME DELAY                 | 2   |
| 3A63565H05 | FUSE 2A 500VAC TIME DELAY                 | 2   |
| 3A63565H06 | FAN MAJOR 115VAC 50/                      | 1   |
| 3A63565H06 | FAN MAJOR 115VAC 50/60HZ                  | 1   |
| 3A63565H11 | THERMAL PAD MOD 3.70X 1.89                | 2   |
| 3A63565H11 | THERMAL PAD MOD 3.70X 1.89                | 2   |
| 3A63565H13 | IGBT DUAL 600V 300A                       | 1   |
| 3A63921H67 | RESISTOR 1.5K OHM 2W +/-5% TOL            | . 4 |
| 3A63921H67 | RESISTOR 1.5K OHM 2W +/-5% TOL            | 1   |
| 3A64787G01 | WIRELIST-TRAIN REGISTRY CABINET           | · 1 |
| 3A64788G01 | WIRELIST-TRAIN REGISTRY CABINET-A4 CRADLE | 1   |
| 3D15179G01 | LEVELING VALVE ASSEMBLY                   | · 4 |
| 3D15257G01 | GATE CONTROL TRANSFORMER                  | 2   |
| 3D15323H01 | LEVELING VALVE                            | 8   |
| 3D15403G01 | Hard Ground Assy                          | 6   |
| 3D15632G01 | SPEED SENSOR ASSEMBLY                     | 4   |
| 3D15632G02 | SPEED SENSOR ASSEMBLY                     | 2   |
| 3D15698G02 | SWAY BAR ASSEMBLY                         | 2   |
| 3D15968H01 | Controller Model 7K                       | 1   |
| 3D51640G03 | PANEL ASSEMBLY                            | 1   |
| 3D52075H02 | MOTOR OPERATOR 120 VAC                    | 2   |
| 3D99578G01 | SWITCH HYDRAULIC UNIT                     | 0   |
| 3D99727G01 | HYDRAULIC POWER UNIT                      | 1   |
| 3D99727H02 | GEAR PUMP                                 | 2   |
| 3D99727H12 | LEVEL GAGE (LHA)                          | 1   |

| Part No                  | Description                                              | Qíy  |
|--------------------------|----------------------------------------------------------|------|
| 3D99727H20               | MOTOR 2HP 230/460 3PH. W/MTO                             | 1    |
| 3D99914G01               | LOW SPEED RAMP ASSEMBLY                                  | 1    |
| 404P102H74               | TRANSFORMER                                              | 2    |
| 404P104H31               | RESISTOR .20 OHM 10 WATT                                 | 2    |
| 404P111H54               | CAPACITOR 52000 MFD-30 WVDC                              | 3    |
| 404P112H92               | POWER SUPPLY 85-264VAC QUAD OUT 350W                     | 2    |
| 404P112H92               | POWER SUPPLY 85-264VAC QUAD OUT 350W                     | 1    |
| 404P112H93               | POWER SUPPLY 24VDC IA 120VAC IN                          | 2    |
| 404P115H06               | L.E.D. (RED)                                             | 100  |
| 404P115H19               | DIODE SPECIAL 100A 300V RECTIFIER                        | 2    |
| 404P115H38               | LED RED                                                  | 10   |
| 404P117H95               | RELAY 1300 OHM 16-24VDC 6FB STD.                         | 2    |
| 404P117H96               | RELAY GEN PURP 24DC 2A 6PDT 430 ohm                      | 2    |
| 404P127H96               | MODEM L/HAUL 1300 NM WFT-12 STAND ALONE                  | 1    |
| 404P135H26               | RESISTOR ADJUSTABLE 12 WATT WIRE WOUND                   | 2    |
| 404P135H27               | RESISTOR ADJUSTABLE 12 WATT WIRE WOUND                   | 2    |
| 404P155H10               | CAPACITOR                                                | 4    |
| 404P157H63               | RESISTOR 50 WATT 33.2 OHM 1%                             | 8    |
| 404P157H72               | RESISTOR 1K OHMS 10.0W 1% RH10                           | 2    |
| 404P157H90               | RESISTOR 2W 1.5K OHM CARBON FILM                         | 10   |
| 404P175H44               | CLAMP KIT W/RETAINER 50 PIN                              | 8    |
| 404P175H44               | CLAMP KIT W/RETAINER 50 PIN                              | 8    |
| 404P175H45               | CLAMP KIT W/RETAINER 9 PIN                               | 4    |
| 404P175H45               | CLAMP KIT W/RETAINER 9 PIN                               | 4    |
| 404P228H06               | RESISTOR 2.2K OHMS 1W 5% RG1/2                           | 14   |
| 404P290H13               | 1/2" Auto Aris, Vari-Focal CCTV Camera Lens              | 4    |
| 404P290H15               | Video Switcher Controller Keyboard                       | 1    |
| 404P290H18               | 20" Color Monitor                                        | 1    |
| 404P290H39               | 9832VI/O Quad Video I/O                                  | 1    |
| 404P290H40               | 9832VDA Quad Video Decoder                               | 1    |
| 404P290H41               | 9832VEA Quad Video Encoder                               | 1    |
| 404P290H42               | 9832RF Fiber Repeater                                    | 1    |
| 404P290H43               | 9832FT Fiber Transceiver                                 | 1    |
| 404P290H44               | 9832PS3 Power Supply                                     | 2    |
| 404P290H45               | 9832PS7 Power Supply<br>9832PS7 Power Supply             | 2    |
| 404P291H09               | CONVERTER RS232 TO RS485                                 | 2    |
| 404P291H09<br>404P291H09 | RS-422 / RS-485 Converter with Enclosure and 9VDC Supply | 1    |
| 404P305H05               | STRAIGHT SWIVEL                                          | 100  |
| 404P313H01               | HOSE -04                                                 | 200  |
| 404P313H01<br>404P313H02 | HOSE -04<br>HOSE .31 ID X .61 OD                         | 1000 |
| 404P313H02<br>404P313H03 | HOSE -08                                                 | 500  |
| 404P313H03               |                                                          |      |
|                          | HOSE -12<br>TEFLON HOSE                                  | 100  |
| 404P313H12               |                                                          | 100  |
| 404P313H13               | HOSE                                                     | 200  |
| 404P313H14               | TEFLON HOSE                                              | 100  |
| 404P313H15               | TEFLON HOSE                                              | 100  |
| 404P332H03               | SWITCH MOMENTARY ACTION                                  | 1    |

| - Part No  | Description                               | Qiy  |
|------------|-------------------------------------------|------|
| 404P335H48 | SWITCH                                    | 1    |
| 404P335H49 | SWITCH                                    | 1    |
| 404P336H05 | ROTARY SWITCH                             | 2    |
| 404P341H04 | TERMINAL BLOCK UKK 5-DIO                  | 3    |
| 404P341H04 | TERMINAL BLOCK UKK 5-DIO                  | 2    |
| 404P348H09 | BLOCK CONTACT-N.O.                        | 2    |
| 404P348H10 | STD CONTACT BLOCK                         | 2    |
| 404P356H17 | RELAY RP 1-1/2 PCB                        | 2    |
| 404P356H17 | RELAY RP 1-1/2 PCB                        | 1    |
| 404P356H19 | RELAY EJECTOR                             | 1    |
| 404P356H19 | RELAY EJECTOR                             | 1    |
| 404P357H02 | LIGHT INDICATOR                           | 11   |
| 404P357H04 | LAMP                                      | 20 . |
| 404P357H55 | LED 12VDC RED                             | 2    |
| 404P357H56 | LED 12VDC GREEN                           | 2    |
| 404P357H57 | LED 12VDC AMBER                           | 2    |
| 404P360H21 | LED GREEN 24/28V                          | 4    |
| 404P360H22 | LED YELLOW 24/28V                         | 4    |
| 404P360H38 | LAMP INDICATOR LED MF YELLOW 24V          | 8    |
| 404P360H40 | LAMP INDICATOR LED MF GREEN 24V           | 4    |
| 404P394H01 | MOUSE INTELLIPOINT VERSION 2.0 COMBO      | 1    |
| 404P394H29 | COMPUTER COMPONENT - KEYBOARD             | 1    |
| 404P394H45 | LAPTOP TERMINAL 133 MHZ PENTIUM ·         | ĭ    |
| 404P394H71 | MONITOR 22" DIAMOND PRO 2060 DESKTOP      | 1    |
| 404P394H72 | 17 PAGE PER MINUTE LASERJET PRINTER       | 1    |
| 404P402H03 | SPRING                                    | 8    |
| 404P405H07 | SPEAKER                                   | 4    |
| 404P405H09 | SPEAKER                                   | 2    |
| 404P405H14 | SPEAKER                                   | 2    |
| 404P405H22 | SPEAKER 2.5                               | 2    |
| 404P419H03 | LAMP FLUORESCENT                          | 90   |
| 404P419H11 | LAMP FLUORESCENT 32 WATT 48 LG            | 100  |
| 404P419H14 | LAMP FLUORESCENT 25 WATT 36.00 IN LG      | 20   |
| 404P427H05 | FUSE 25 AMP                               | 10   |
| 404P437H34 | SPRING CONTACT (14-16 AWG)                | 100  |
| 404P437H34 | SPRING CONTACT (14-16 AWG)                | 84   |
| 404P437H51 | RELAY 9-30 VDC ADJ. TIMER 125 OHM         | 2    |
| 404P437H56 | RELAY O.A. BIASED 400 OHM 6FB             | 4    |
| 404P437H56 | RELAY O.A. BIASED 400 OHM 6FB             | 1    |
| 404P437H64 | RELAY O.A. BIASED 1000/250 OHM            | 1    |
| 404P437H96 | VITAL RELAY 12-14 VDC 800 OHM             | 6    |
| 404P437H97 | RELAY TIME DELAY 24 VDC 11 PIN INTERVALON | 4    |
| 404P437H98 | COUPLER PARTS CENTER PLATE                | · 2  |
| 404P438H09 | DIODE                                     | 4    |
| 404P439H74 | RESISTOR 2 WATTS 50 OHM N-MALE            | 2    |
| 404P443H02 | RELAY SOCKET 8 PIN                        | 2    |
| 404P443H07 | RELAY SOCKET                              | 2    |

Appendix E-2: Spare Parts

| Description                                                | Qiy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RELAY                                                      | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| RELAY                                                      | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SPRING HOLD DOWN                                           | · 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| RELAY SOCKET                                               | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| RELAY 48 VDC 10 AMP 2 POLE                                 | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Spring, Contract SST                                       | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| PRESS CONTROL 0/100 PSI W/0-10V OUTPUT                     | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| CONTACTOR                                                  | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| CONTACTOR                                                  | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| CONTACTOR INTERLOCK                                        | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 4" Waterproof PA Speaker with 70 Volt / 4 Watt Transformer | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                            | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                            | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                            | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                            | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | . 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                            | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                            | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ······································                     | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                                                            | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                            | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ······································                     | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                            | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                            | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                            | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| BEARING CUP                                                | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                            | RELAY         RELAY         SPRING       HOLD DOWN         RELAY SOCKET         RELAY       48 VDC 10 AMP 2 POLE         Spring, Contract SST         PRESS CONTROL 0/100 PSI W/0-10V OUTPUT         CONTACTOR         CONTACTOR INTERLOCK         4" Waterproof PA Speaker with 70 Volt / 4 Watt Transformer         BREAKER 2 POLE 4 AMP 240 VAC         CIRCUIT BREAKER         AUDIO MATCHING TRANSFORMER         SWITCH         SWITCH PRESSURE         AMPLIFIER 6 WATT AUDIO POWER         MICROPHONE PREAMPLIFIER MODULE         1/8 DIN LCD GREEN BACKLIT DISPLAY         LINE AMPLIFIER ASSY W/LONWORKS CONNECTOR         LINE AMPLIFIER ASSY W/LONWORKS CONNECTOR         LINE AMPLIFIER ASSY W/LONWORKS CONNECTOR         PA EMPLIFIER ASSY W/LONWORKS CONNECTOR         PA EMPLIFIER ASSY W/LONWORKS CONNECTOR         PA EMPLIFIER ASSY W/LONWORKS CONNECTOR         LINE AMPLIFIER ASSY W/LONWORKS CONNECTOR         POTENTI |

## Appendix E-2: Spare Parts

| Part No     | Description                             | Qty  |
|-------------|-----------------------------------------|------|
| 404P546H02  | BEARING CONE                            | 40   |
| 404P546H03  | BEARING CUP                             | · 40 |
| 404P546H04  | BEARING CONE                            | 40   |
| 404P547H04  | SEAL                                    | 50 · |
| 404P547H07  | SEAL                                    | 50   |
| 404P547H46  | TORQUE SEAL ORANGE                      | 50   |
| 404P548H01  | KEYED WASHER                            | 8    |
| 404P549H01  | GREASE CAP                              | 8    |
| 404P551H01  | CASTLE NUT                              | . 8  |
| 404P551H06  | WHEEL STUD .500-20 1.31 LG              | 40   |
| 404P551H07  | WHEEL NUT .500-20 NYLON RINGLOCK        | 40   |
| 404P554H22  | FUSE                                    | 8    |
| 404P564H05  | Bearing                                 | 4    |
| 404P567H14  | SENSOR TIRE MONITOR KIT                 | 8    |
| 404P585H14  | FUSE 1.0 AMP 600 V 4 C 500 V DC         | 15   |
| 404P594H01. | VARISTOR                                | . 8  |
| 404P594H24  | VARISTOR 127 VDC                        | 4    |
| 404P595H08  | AB BREAKER 15 AMP                       | 11   |
| 404P595H09  | AB BREAKER 20 AMP                       | 4    |
| 404P595H80  | BREAKER MAGNETIC HYDRAULIC 5.0 AMPS     | 2    |
| 404P595H84  | BREAKER 1 POLE 277 VAC 15A              | 4    |
| 404P595H87  | BREAKER 1 POLE 277 VAC 30A              | 2    |
| 404P595H90  | BREAKER 1 POLE 277 VAC 70A              | 2    |
| 404P598H04  | POTENTIOMETER 10K OHM 3 WATTS           | 1    |
| 404P598H05  | POTENTIOMETER 1K OHM 3 WATTS            | 1    |
| 404P600H35  | WASHER .382 ID .750 OD .032 T SST       | 100  |
| 404P611H50  | CAPACITOR 20 UF 370VAC                  | 2    |
| 404P617H48  | BREAKER 40A 227 VAC 1 POLE              | 2    |
| 404P630H15  | RELAY 24VDC                             | 2    |
| 404P630H22  | RELAY 24VDC 2 DPDT 10 AMP               | 4    |
| 404P630H25  | RELAY MODULE UMK22-REL12/21-21          | 1    |
| 404P649H02  | FILTER                                  | 4    |
| 404P649H28  | FAN 24 VDC BALLBEARING 35CFM            | 2    |
| 404P649H40  | FAN TRAY ASSEMBLY 115VAC 192CMH X3 FANS | 1    |
| 404P649H40  | FAN TRAY ASSEMBLY 115VAC 192CMH X3 FANS | 1    |
| 404P650H16  | BUMPER 1.00 DIA .69 LONG RUBBER         | 16   |
| 404P659H01  | RELAY LIGHTING                          | 10   |
| 404P660H01  | BALLAST SINGLE LAMP                     | 8    |
| 404P660H02  | BALLAST DOUBLE LAMP                     | 8    |
| 404P661H01  | LAMP SOCKET FLOURESCENT SIDE INSERT     | 8    |
| 404P663H06  | RF SWITCH 4-POS N-M CABLE HARNESS       | 2    |
| 404P681H30  | FLANGE BEARING .502 I.D691 O.D75 LG     | 1    |
| 404P682H01  | CONTROL RELAY                           | 2    |
| 404P682H02  | CONTROL RELAY                           | 2    |
| 404P682H21  | RELAY GERMAN SIGNAL (6NO/2NC)           | 20   |
| 404P682H22  | RELAY GERMAN SIGNAL (4NO/4NC)           | 4    |
| 404P682H23  | HEAVY DUTY DC CONTROL RELAY             | 2    |

| Part No                  | - Description                                                    | Qiy |
|--------------------------|------------------------------------------------------------------|-----|
| 404P683H08               | THYRISTOR 200V 70A                                               | 3   |
| 404P690H01               | End, Right Hand Rod                                              | 1   |
| 404P690H02               | End, Left Hand Rod                                               | 1   |
| 404P690H03               | End, Right Hand Rod                                              | 1   |
| 404P690H04               | End, Left Hand Rod                                               | 1   |
| 404P694H06               | INDICATING LIGHT                                                 | 4   |
| 404P694H12               | PUSHBUTTON FLUSH 2-NO 2-NC WHITE                                 | 2   |
| 404P694H13               | PUSHBUTTON FLUSH 2-NO 2-NC BLUE                                  | 2   |
| 404P697H36               | BATTERY GEL CELL 97 AMP HR 12V                                   | 2   |
| 404P699H01               | SOLENOID VALVE                                                   | 2   |
| 404P700H01               | DOUBLE CHECK VALVE                                               | 2   |
| 404P701H09               | LOW POWER LINE FILTER 3A                                         | 2   |
| 404P703H07               | TOGGLE SWITCH.                                                   | 2   |
| 404P703H55               | SWITCH TOGGLE                                                    | 2   |
| 404P703H67               | SWITCH TOGGLE                                                    | 1   |
| 404P703H72               | SWITCH SUB MINIATURE PUSHBUTTON                                  | 2   |
| 404P708H54               | 115 VAC Power Supply                                             | 1   |
| 404P708H65               | POWER SUPPLY                                                     | 1   |
| 404P709H11               | TRANSMITTER CARTRIDGE                                            | 2   |
| 404P709H60               | DIGITAL VOICE ANNOUNCEMENT UNIT                                  | 1.  |
| 404P709H74               | RADIO EQUIPMENT MDR 18-32 VDC                                    | 1   |
| 404P709H75               | RADIO EQUIPMENT BDR RACK MOUNT                                   | - 1 |
| 404P709H78               | N-CONNECTOR, EPOXY SEAL                                          | 1   |
| 404P7,09H79              | 2-4 GHZ, EPOXY SEAL                                              | · 4 |
| 404P709H80               | 2-4 GHZ, EPOXY SEAL                                              | 2   |
| 404P709H81               | 2-4 GHZ, EPOXY SEAL                                              | 1   |
| 404P709H83               | POWER DIVIDER, 1-4 GHZ                                           | 2   |
| 404P709H85               | DIRECTIONAL COUPLER                                              | 1   |
| 404P709H90               | DOUBLE RF HYBRID                                                 | 1   |
| 404P732H10               | ANTENNA 902-928 MALE TAG READER                                  | 2   |
| 404P747H18               | SWITCH ASSY W/CONNECTOR MS3112E-12-8P                            | 1   |
| 404P747H23               | FDDI BYPASS SWITCH SC-SC-DB9 RACK-2M                             | 2   |
| 404P747H25               | SWITCH FDDI BYPASS SC-SC-MDIN RACK-2M                            | 1   |
| 404P765H10               | RESISTOR MTG HDW 210-1000                                        | 2   |
| 404P765H11               | RESISTOR MTG HDW 210-1000<br>RESISTOR MTG HDW 210-12 WATT        | 2   |
| 404P703H11<br>404P810H03 | VALVE PRESSURE RELIEF                                            | 2   |
| 404P810H03<br>404P810H04 | SOLENOID VALVE                                                   | 2   |
| 404P810H04<br>404P810H05 | SOLENOID VALVE                                                   | 2   |
|                          | SOLENOID VALVE                                                   | 2   |
| 404P810H06<br>404P810H22 | VALVE 1/4 3 WAY DIRECT ACTING                                    | 2   |
| [                        | VALVE 1/4 5 WAY DIRECT ACTING<br>VALVE REPAIR KIT FOR 404P810H22 | 4   |
| 404P810H24               |                                                                  | 4   |
| 404P813H18               | FILTER                                                           |     |
| 404P813H19               | CHECK VALVE .38-14 NPTF DRY SEAL                                 | 2.  |
| 404P820H22               | FILTER ELEMENT (10B)                                             | 4   |
| 404P829109               | MONITOR 37 INCH SVGA                                             | 1   |
| 404P829118               | OTR-150 Optical Transceiver                                      | 1   |
| 404P829126               | HARD DISK DRIVE 2.5 GBYTES                                       | 1   |

| Part No      | Description                                             | Qty |
|--------------|---------------------------------------------------------|-----|
| 404P829128   | 250 WATT COMPUTER POWER SUPPLY                          | 2   |
| 404P837H01   | SONALERT 10-48 VDC 4500 HZ                              |     |
| 404P837H02   | SONALERT 10-48 VDC 1900 HZ                              | 1   |
| 404P837H03   | SONALERT                                                | 1   |
| 404P840H01   | PRESSURE GAUGE                                          | 1   |
| 404P840H11   | PRESSURE GAGE 0-160PSI BK MOUNT                         | 4   |
| 404P840H12   | PRESSURE GAGE 0-300PSI BK MOUNT                         | 4   |
| 404P840H13   | PRESSURE GAGE 0-60PSI BACK CONN.                        | 2   |
| 404P903H44   | CONTACT BLOCK SPST N.O.                                 | 2   |
| 404P930H02   | BELT                                                    | 4   |
| 404P931H07   | FLTR MEDIA 12.88 X 13.88 X .75 THK FOAM                 | 8   |
| 404P949H07   | BOOT                                                    | . 8 |
| 404P949H08   | SHOCK ABSORBER 1.38 BORE .63 ROD                        | 8   |
| 404P963H30   | POWER SUPPLY 12 VDC                                     | 1   |
| 404P963H32   | POWER SUPPLY 115 VAC PLUG-IN                            | 1   |
| 404P963H36   | POWER SUPPLY 115 VAC - 9VDC PLUG-IN                     | 1   |
| 404P968H10   | HAND PUMP SINGLE PISTON                                 | 1   |
| 404P988H85   | SWITCH TYPE UK5-MTK-P/P                                 | 2   |
| 404P988H89   | TERMINAL BLOCK FUSED W/LED 15-30V                       | 4   |
| 404P988H89   | TERMINAL BLOCK FUSED W/LED 15-30V                       | 5   |
| 404P988H97   | FUSE PLUG 5-15V AC/DC W/LIGHT                           | 10  |
| 404P988H98   | FUSE PLUG 15-30V AC/DC W/LIGHT                          | 8   |
| 404P996H02   | VALVE IN-LINE CHECK                                     | 2   |
| 404P996H03   | CHECK VALVE                                             | 2   |
| 404P996H06   | TOGGLE VALVE .25 M/.25 M .125 ORIFICE                   | 4   |
| 404P996H08   | Valve, Bleeder                                          | 1   |
| 4077B45H02   | D C AMMETER 1)                                          | 2   |
| 4077B76G02   | SWITCH ASS'Y                                            | 2   |
| 4078B16H01   | VOLTMETER                                               | 1   |
| . 4078B51H01 | THYRISTOR                                               | 4   |
| 4078B74G01   | STD. INTERLOCK MOVING PART ASSEMBLY                     | 8   |
| 4078B89H01   | SWITCH TEMPERATURE LEVEL                                | 1 . |
| 409P033H98   | TRANSPONDER INTERROGATOR - VEH 10 CHAR                  | 2   |
| 409P034H04   | REDUNDANT MODBUS PLUS OPTION ADAPTER                    | 3   |
| 409P034H07   | MODULE I/O BASE                                         | 2   |
| 409P034H37   | MODICON PLC COMPACT CONTROLLER 984-120                  | 2   |
| 409P034H43   | DEP 218 INPUT MODULE 115 VAC                            | 4   |
| 409P034H45   | SERIAL ADAPTER LONTALK SLTA-10                          | 1   |
| 409P071H02   | Digital Sound Processor                                 | 1   |
| 409P084H04   | CBX SLA16 Subscriber Line Analog Module                 | 1   |
| 409P084H04   | CBX PSUI Power Supply Unit.                             | 1   |
| 409P084H05   | CCF Operator Display Telephone                          | 1   |
| 409P084H05   | MSF Office Telephone                                    | 1   |
| 409P084H06 · | Wall Mount Telephone                                    | 1   |
| 409P084H07   | Passenger Station Emergency Telephone                   | 1   |
| 409P084H08   | Blue Light Telephone with AE700 Surface Mount Enclosure | 1   |
| 409P119H52   | POWER SUPPLY RACK MOUNTABLE                             | 2   |
| 4091191132   | IT O WER SULLET RACK MOUNTABLE                          | 2   |

| Part No                  | Description                             | Qty |
|--------------------------|-----------------------------------------|-----|
| 409P119H91               | POWER SUPPLY ASSEMBLY (#S10833)         | 1   |
| 409P129H23               | AIR CONDITIONER MOISTURE INDICATOR      | 6   |
| 409P176H05               | SMOKE ALARM RELAY BASE                  | 4   |
| 409P177H28               | AUDIO AMPLIFIER UNIT                    | 1   |
| 409P177H34               | BEAM POWERED TRANSPORTATION TAG         | 2   |
| 409P177H34               | BEAM POWERED TRANSPORTATION TAG         | 4   |
| 409P177H35               | TRANSPONDER INTERROGATOR - WAYSIDE      | 2   |
| 409P180100               | RS232 TO RS485 OPTICAL ISOLATED MODEM   | 1   |
| 409P180102               | 3 PCI 2 CPU 8 ISA SLOT BACKPLANE        | 1   |
| 409P180H98               | DISPLAY TERMINAL TOUCH SCREEN           | 2   |
| 409P188103               | 8.4 GBYTE HARD DISK DRIVE               | 1   |
| 409P188110               | 120MBYTE REMOVABLE DISK DRIVE           | 1   |
| 409P188H26               | RESISTOR TERMINATOR CAPS BNC 50 OHM     | 2   |
| 409P188H26               | RESISTOR TERMINATOR CAPS BNC 50 OHM     | 2   |
| 409P188H27               | TRANSCEIVE CONNEX MINI BNC              | 2   |
| 409P188H27               | TRANSCEIVE CONNEX MINI BNC              | 2   |
| 409P189H01               | CONTROLLER 1.5 K                        | 1   |
| 409P189H02               | POWER SUPPLY 120 VAC 24 VDC             | 3   |
| 409P189H03               | EEPROM CARD & K BYTE                    | 2   |
| 409P189H04               | SUBRACK PRIMARY                         | 1   |
| 409P189H05               | SUBRACK SECONDARY                       | 1   |
| 409P189H06               | CABLE BUS EXTENSION                     | 1   |
| 409P189H08               | OUTPUT MODULE 8 PT RELAY                | 4   |
| 409P189H11               | INPUT MODULE 16 POINT 24 VDC            | 2   |
| 409P189H20               | CONTROLLER MOMENTUM PROCESSOR           | 3.  |
| 409P191105               | RECEIVER 62.5 MULTIMODE 10 DB BUDGET    | 1   |
| 409P191106               | TRANSMITTER 62.5 MULTIMODE 10 DB BUDGET | 1   |
| 409P191111               | FIBER OPTIC/RF CONVERTER BASE UNIT      | 1   |
| 409P191125               | FIBER OPTIC SYSTEM                      | 2   |
| 409P196H43               | MODEL 857 10 SLOT CARDFILE W BACK PLANE | 1   |
| 409P196H70               | 1/3" CCD Color CCTV Camera (120VAC)     | 4   |
| 409P197H24               | PCI GRAPHICS CARD                       | 1   |
| 409P197H25               | DIGI 8 PORT SERIAL BOARD                | 1   |
| 409P197H75               | 144 MBYTE STATIC RAM DISK DRIVE         | 1   |
| 409P197H80               | 40X CD ROM DRIVE                        | 1   |
| 409P197H80               | COMPUTER COMPONENTS                     | 1   |
| 409P198H24<br>409P199143 | Digital to Analog Audio Converter       | 1   |
| 409P199H39               | ETHERNET LAN 12 PORT HUB                | 1   |
| 409P199H59<br>409P199H52 | SEC SERIAL PORT/PS2 MOUSE CABLE & KIT   | 1   |
| 409P199H62               | CONTROL MODULE - CPM 6400               | 1   |
| 409P199H02<br>409P199H63 | POWER SUPPLY FOR MATRIX SWITCH RACK     | 1   |
| 409P199H65               | 8-PORT I/O MODULE (RS-232) - CPM 6400   | · 1 |
| 409P199H03<br>409P199H93 | SUPERSTACK II SWITCH 2200               | 1   |
| 409P199H93<br>409P199H99 | 56 KBPS INTERNAL FAXMODEM               | 1   |
| 409P199H99<br>409P210H17 | HIGH RESOLUTION VIDEO CONVERTER         | 1   |
|                          | VIDEO MONITOR - 20                      | 1   |
| 409P210H18               | KEYBOARD VIDEO CONTROLLER               |     |
| 409P210H19               | KEIDUARD VIDEU UUNIRULLER               | 1   |

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| Part No    | Description                                                     | Qíy |
|------------|-----------------------------------------------------------------|-----|
| 409P210H20 | TIME LAPSE VIDEO RECORDER                                       | 1   |
| 409P219H12 | RING SEAL                                                       | 4   |
| 409P236H10 | RELAY                                                           | 2 . |
| 409P236H13 | TERMINAL BLOCK TYPE UKK5                                        | 10  |
| 409P237H05 | LOWER PLATE                                                     | 2   |
| 409P237H06 | UPPER PLATE                                                     | 2   |
| 409P237H11 | COUPLER PARTS RUBBER BUFFER                                     | 4   |
| 409P237H16 | DUST CAP                                                        | 2   |
| 409P237H17 | ROLL PIN 8 X 45                                                 | 4   |
| 409P237H19 | RUBBER BUMPERS                                                  | 2   |
| 409P241H01 | GASKET COUPLER                                                  | 4   |
| 409P241H02 | GASKET COUPLER                                                  | 4   |
| 409P241H05 | PIN CENTER                                                      | 2   |
| 409P241H06 | NUT CENTER PIN                                                  | 2   |
| 409P241H07 | RING RUBBER                                                     | 4   |
| 409P241H09 | BUSHING UPPER CENTER                                            | 2   |
| 409P241H10 | BUSHING LOWER CENTER                                            | 2   |
| 409P248H75 | PC BOARD 10 SLOT VME J1 BACKPLANE                               | 1   |
| 409P248H75 | PC BOARD 10 SLOT VME J1 BACKPLANE                               | 2   |
| 409P248H76 | PC BOARD 7 SLOT VME J1 BACKPLANE                                | 1   |
| 409P248H77 | PC BOARD 5 SLOT VME J1 BACKPLANE                                | 1   |
| 409P248H79 | PC BOARD 2200 DAS PCI FIBER FDDI ADAPTER                        | 1 1 |
| 409P248H88 | 48 Power Supply and Ringing Generator (48V/25Hz)                | 1   |
| 409P249101 | 12-Port Analog Voice Interface Card (12LVOI-P)                  | · 1 |
| 409P249102 | High Quality Audio / Public Address Interface Card (HQAUD-M)    | 1   |
| 409P249102 | High Quality Audio / Public Address Interface Card (HQAUD-S)    | 1   |
| 409P249103 | 4-Wire E&M Interface Card                                       | 1   |
| 409P249104 | BORA Common Logic Module                                        | 1   |
| 409P249105 | RS 422 Interface Card                                           | 1   |
| 409P249106 | RS-485 interface Card                                           | 1   |
| 409P249107 | RS 232 Interface Card                                           | 1   |
| 409P249110 | 12-Port Analog Voice Interface Card (12LVOI-T)                  | 1   |
| 409P250H94 | FILTER ASSEMBLY                                                 | 35  |
| 409P262H24 | PA Ambient Noise Sensing Controller                             | 1   |
| 409P276H13 | WIPER BLADE ASSEMBLY (31.5)                                     | 4   |
| 409P301H01 | Hi-Tech Spare Parts Kit Includes: 1 Complete Dynamic Message Si | 1   |
| 409P302H61 | MOTOR, 2HP, 480V, 1800RPM, 56C                                  | 1   |
| 409P302H62 | BEARING CARBON GRAPHITE, 1.5"                                   | 1   |
| 409P302H63 | BEARING - 4 BOLT FLANGE, 1"                                     | 6   |
| 409P302H64 | 1" BORE, #1610 TAPER LOCK BUSHING                               | 2   |
| 409P302H65 | FUSE AJT30                                                      | 2   |
| 409P302H66 | FUSE GGM-4                                                      | 2   |
| 409P302H67 | FUSE FRN-R-5                                                    | 1   |
| 409P302H68 | RECEIVER EYE IR-M12-15M                                         | 1   |
| 409P302H69 | MANUAL AMO/TIMER ISG-N34-115V                                   | 1   |
| 409P302H70 | TRANSMITTER EYE IT M12 35M                                      | 1   |
| 4166A87H01 | RELAY TYPE B                                                    | 3   |

| Part No-                 | Description                            | Qty      |
|--------------------------|----------------------------------------|----------|
| 4227B27G01               | CONTACT STUD ASSEMBLY                  | 32       |
| 4227B59G01               | CAM SHUNT                              | 8        |
| 4567B03H07               | CAPACITOR 1 UF 660 VAC                 | 6        |
| 4675C15G04               | BRAKE TRANSFORMER                      | 0        |
| 4677C95G09               | VARISTOR ASSEMBLY                      | . 4      |
| 4677C95G28               | VARISTOR SUPPRESSION DEVICE            | 3        |
| 4678C64G01               | TRANSFORMER & POTENTIOMETER PANEL ASSY | 2        |
| 4680C29G04               | AAR RACK ASSEMBLY                      | 0        |
| 4680C65H01               | AIRSIDE SPRING                         | 8        |
| 4682C17G02               | BRUSH HOLDER PIN                       | 32       |
| 4722A43H02               | BOLT .500-13 X 1.25 HEX HD STL         | 100      |
| 4766A18G02               | VARISTOR ASSEMBLY                      | 6        |
| 4766A18G05               | VARISTOR ASSEMBLY                      | 4        |
| 4766A18G08               | VARISTOR ASSEMBLY                      | 6        |
| 4766A40G06               | DIODE ASSEMBLY                         | 4        |
| 4766A40G11               | DIODE ASSEMBLY                         | 2        |
| 4766A40G12               | DIODE ASSEMBLY                         | 2        |
| 4766A40G13               | DIODE ASSEMBLY                         | 8        |
| 4766A40G16               | DIODE ASSEMBLY                         | 3        |
| 4766A40G18               | DIODE ASSEMBLY                         | 4        |
| 4767A67G01               | LIGHTNING ARRESTER                     | 14       |
| 4767A86H12               | BALL VALVE                             | 2        |
| 4767A86H15               | Valve, Check                           | 1        |
| 4767A90G01               | STD. CONTACT INTERLOCK FINGER          | . 8      |
| 4768A05H11               | CRITICAL RELAY 4 FORM C 24V            | 4        |
| 4768A30H01               | TRANSFORMER                            | 4        |
| 4776A87H01               | FUSE BLOCK #3519 0-60 AMPS 600V        | 4        |
| 4778A79G01               | STD. FINGER INTERLOCK                  | 10       |
| 4893B70H02               | GAUGE                                  | 3        |
| 4894B90H01               | SPRING .0747 THK SST                   | 16       |
| 4896B59H01               | SWIVEL STEM 3.50) .375 DIA STL         | 16       |
| 4896B60H01               | SPACER .505).375 DIA 1/2 HARD BRS      | 8        |
| 4898B19G06               | LIGHTNING ARRESTER ASSEMBLY            | 8        |
| 4898B19G07               | LIGHTNING ARRESTER ASSEMBLY            | 8        |
| 4898B51G02               | PINNED POWER RAIL INSTALLATION         | 0        |
| 4898B51G02               | PINNED SIGNAL RAIL INSTALLATION        | 0        |
| 4899B59H01               | PIN 3.50).375 DIA                      | 100      |
| 4899B64H01               | EXTENSION SPRING                       | 100      |
| 4899B65H03               | ALIGNMENT PLATE 1.75 X .75) .125 THK   | 40       |
| 4099B05H03<br>4D02279G02 | TRANZORB ASSEMBLY                      | 2        |
| 5574C12H06               | Cylinder Hydraulic                     | 2        |
| 5574C31G03               | GUIDE TIRE ASSEMBLY                    | 0        |
| 5574C31H03               | TIRE                                   | 16       |
| 5574C40G01               | DOOR SLIDE ASSEMBLY L.H.               | 2        |
|                          | DOOR SLIDE ASSEMBLY R.H.               | 2        |
| 5574C41G01               | Ramp                                   | <u> </u> |
| 5574C95H05               | Ramp                                   | 6        |
| 55/4035105               |                                        | 0        |

# Appendix E-2: Spare Parts

| Part No    | Description                            | Qiy |
|------------|----------------------------------------|-----|
| 5575C64H02 | SWITCH SNAP ACTION ROLLER              | 2   |
| 5578B62G01 | BRUSH HOLDER ASSEMBLY                  | 16  |
| 5579B40H01 | FAN DC BRUSHLESS                       | 6   |
| 5580B05G01 | RESISTOR ASSY 11 K 1 W                 | 2   |
| 5580B05G02 | DIODE ASSY IN5399                      | 2   |
| 5582B88H01 | BEARING                                | 64  |
| 5585B41H05 | ADJUSTING PLUNGER ASSY 16 DEGREE ANGLE | 8   |
| 5585B41H05 | ADJUSTING PLUNGER ASSY 16 DEGREE ANGLE | 16  |
| 5585B78H01 | CHANNEL 5.00 X 1.92).062 THK SST       | 20  |
| 5585B79H01 | ARM 11.00) .375 DIA STL                | 64  |
| 5585B85H01 | KEEPER 9.50) .188 X 1.00 CF STL        | 20  |
| 5585B93H01 | BRUSH HOLDER PLUG 2.00) .625 X 1.50 BR | 16  |
| 5586B24H02 | SWIVEL STEM 4.25) .375 DIA STL         | 50  |
| 5586B62H02 | CYLINDER HIGH PRESSURE                 | 2   |
| 5586B62H03 | GASKET                                 | 2   |
| 5586B62H04 | CYLINDER LOW PRESSURE                  | 2   |
| 5586B62H05 | GASKET                                 | 2   |
| 5586B62H06 | CAP SUCTION VALVE                      | 2   |
| 5586B62H08 | SEAL O-RING CAP                        | 4   |
| 5586B62H09 | SEAL FELT PLUNGER TO SLEEVE            | 4   |
| 5586B62H10 | SEAL O-RING PLUNGER TO SLEEVE          | 4   |
| 5586B62H16 | HEAD LOW PRESSURE CYCLINDER            | 2   |
| 5586B62H17 | GASKET LOW PRESSURE CYLINDER           | 2   |
| 5586B62H18 | VALVE ASSEMBLY DISCHARGE               | 4   |
| 5586B62H20 | VALVE ASSEMBLY SUCTION                 | 4   |
| 5586B62H26 | SEAL O-RING CAP                        | 4   |
| 5586B62H27 | SEAL FELT PLUNGER TO SLEEVE            | 8   |
| 5586B62H28 | SEAL O-RING PLUNGER TO SLEEVE          | 4   |
| 5586B62H33 | HEAD HIGH PRESSURE CYLINDER            | 2   |
| 5586B62H34 | GASKET HIGH PRESSURE CYLINDER          | 2   |
| 5586B62H35 | VALVE ASSEMBLY DISCHARGE               | 4   |
| 5586B62H37 | VALVE ASSEMBLY SUCTION                 | 4   |
| 5586B62H42 | ELEMENT AIR CLEANER                    | 38  |
| 5586B62H53 | SPRING                                 | 2   |
| 5586B62H54 | VALVE CHECK                            | 2   |
| 5586B62H55 | PIN                                    | 2   |
| 5586B62H56 | SEAL PIN                               | 2   |
| 5586B62H57 | RETAINER OIL RELIEF SPRING             | 4   |
| 5586B62H58 | SPRING OIL RELIEF                      | 4   |
| 5586B62H60 | PISTON                                 | 2 · |
| 5586B62H61 | DIAPHRAGM                              | 4   |
| 5586B62H66 | PISTON ASSEMBLY HIGH PRESSURE          | 4   |
| 5586B62H70 | BALL NYLON OIL RELIEF VALVE            | 4   |
| 5586B62H73 | SLEEVE RUBBER                          | 4   |
| 5586B62H75 | SEAL OIL FRONT                         | 2   |
| 5586B62H81 | CUP BEARING                            | 4   |
| 5586B62H83 | GASKET INTERCOOLER TUBE                | 8   |

| Part No                  | Description                                                                  | Qiy        |
|--------------------------|------------------------------------------------------------------------------|------------|
| 5586B62H85               | VALVE ASSEMBLY SAFETY                                                        | 4          |
| 5586B62H86               | O-RING OIL PUMP COVER                                                        | 4          |
| 5586B62H87               | ROTOR OIL PUMP                                                               | 2          |
| 5586B62H88               | VANE OIL PUMP ROTOR                                                          | 8          |
| 5586B62H89               | SPRING VANE                                                                  | 8          |
| 5586B62H91               | PIN ROLL                                                                     | 4          |
| 5586B62H94               | PIN ROLL                                                                     | 4          |
| 5586B66H01               | CARBON BRUSH GRADE W187                                                      | 32         |
| 5587B02G01               | CYLINDER AIR COMPRESSOR - HIGH PRESSURE                                      | 2          |
| 5587B02G02               | CYLINDER AIR COMPRESSOR - LOW PRESSURE                                       | 2          |
| 5587B07G01               | CRANKSHAFT ASSY AIR COMPRESSOR                                               | 2          |
| 5587B09G01               | PISTON & CONNECTING RODS - HIGH PRESSURE                                     | 2          |
| 5587B09G02               | PISTON & CONNECTING RODS - LOW PRESSURE                                      | 4          |
| 5587B11G01               | INTERCOOLER AIR COMPRESSOR                                                   | 2          |
| 5587B12G01               | REAR RETAINER AND OIL PUMP                                                   | 4          |
| 5621B15G01               | HUB AND SHAFT ASSEMBLY                                                       | 0          |
| 5621B16G01               | BRAKE PARTS                                                                  | 0          |
| 5621B19G01               | GENERAL ASSEMBLY DRIVE AXLE                                                  | 2          |
| 5624B12H01               | LEVER 1)                                                                     | 2          |
| 5624B19H01               | MODIFIED SOCKET                                                              | 8          |
| 5625B54H02               | CAP EXTRUSION 90.50)                                                         | 16         |
| 5625B82H01               | BUMPER E.A.R. ISODAMP #C.1002.25                                             | 4          |
| 5630B48G01               | MICROPHONE ASS'Y                                                             | 1          |
| 570A055H31               | O RING STD SIZE 210                                                          | 16         |
| 577B060H33               | DIODE                                                                        | 2          |
| 5819C58G03               | FINGER ASSEMBLY                                                              | 16         |
| 5819C38003               | SOLENOID VALVE                                                               | 4          |
| 5827C89H04               | Cylinder Hydraulic                                                           | 1          |
| 5D56060H21               | CAM                                                                          | 6          |
| 5D72149G01               | PROPULSION MONITOR ASSEMBLY                                                  | 0          |
| 5D72500G04               | SMOKE DETECTOR ASSEMBLY (GRAPHICS)                                           |            |
| 5D72501G02               | SMOKE DETECTOR MOUNTING BRACKET                                              | 2          |
|                          | PC BOARD R110 CONVERTER MOTHERBD ASS'Y                                       | 2          |
| 5D73028G01               |                                                                              | 2          |
| 5D73062G01<br>5D73065G01 | PC BOARD GEALOC POWER SUPPLY ASSEMBLY<br>PC BOARD MANUAL CONTROL II ASSEMBLY | 2          |
|                          |                                                                              | 2          |
| 5D73067G02<br>5D73091G01 | PC BOARD MANUAL CONTROL I ASSEMBLY                                           | 2          |
|                          | PC BOARD FRANKFURT 16 SLOT P2 BACKPLANE                                      | 12         |
| 5D73122G01               | PC BOARDFRANKFURT RELAY STAT IND ASS'Y                                       | 2          |
| 5D73200G01               | PC BOARD GEALOC POWER SUPPLY ASSEMBLY                                        | <u>1</u> · |
| 5D73201G01               | PC BOARD DIGITAL INPUT PCB ASSEMBLY                                          | 1          |
| 5D73205G02               | PC BOARD GROUND LOSS DETECTION ASSY                                          | 2          |
| 5D73206G01               | PC BOARD AUDIO MATRIX ASSEMBLY                                               | 1          |
| 5D73220G01               | PC BOARD ATCS SYNC/VITAL DRVR INTFC ASSY                                     | 2          |
| 5D73220G02               | PC BOARD ATCS SYNCHRONIZER/VITAL DRIVER                                      | 2          |
| 5D73220G03               | PC BOARD ATCS SYNC VITAL DRIVER                                              | 1          |
| 5D73221G01               | PC BOARD MULTI PURPOSE I/O ASSEMBLY                                          | 2          |
| 5D73221G02               | PC BOARD MULTI PURPOSE I/O ASSEMBLY                                          | 2          |

| Part No    | Description                              | Qty |
|------------|------------------------------------------|-----|
| 5D73222G02 | PWR SUPPLY ASSY (24V IN 5V +/-12V OUT)   | 2   |
| 5D73299G01 | PC BOARD LAS VEGAS RADIO RELAY I/O ASSY  | 2 . |
| 5D73299G01 | PC BOARD LAS VEGAS RADIO RELAY I/O ASSY  | 1   |
| 5D73338G01 | PC BOARD DIGITAL OUTPUT ASSEMBLY         | - 1 |
| 5D73338G02 | PC BOARD DIGITAL OUTPUT ASSEMBLY         | 1   |
| 5D73412G01 | PC BOARD RF INTERFACE ASSEMBLY           | 1   |
| 5D73412G02 | PC BOARD RF INTERFACE ASSEMBLY           | 2   |
| 5D73413G01 | PC BOARD 386 CPU ASSEMBLY                | 1   |
| 5D73449G01 | PC BOARD NUMBER ONE END TERMINATION CARD | 3   |
| 5D73449G02 | PC BOARD NUMBER ONE END TERMINATION CARD | 2   |
| 5D73452G01 | PC BOARD BRAKE PROP CONTROLLER ASSY      | 2   |
| 5D73458G01 | PC BOARD SAN FRANCISCO DOOR TX TERM ASSY | 3   |
| 5D73463G01 | PV BOARD SAN FRANCISCO NON-CPU M/B ASSY  | ·1  |
| 5D73473G01 | PC BOARD, DOOR TX/RX ASSEMBLY            | 2   |
| 5D73479G01 | PC BOARD MANUAL SPEED LIMITER ASSEMBLY   | 2   |
| 5D74294H01 | MOTOR 115 VAC 60 HZ                      | 1   |
| 5D74330G03 | FLAG ASSEMBLY TRIP STOP                  | 1   |
| 5D74457G16 | VEHICLE RADIO ASSEMBLY                   | 0   |
| 5D74649G01 | PHASE VOLTAGE RELAY GEN ASS'Y            | 2   |
| 5D74671G01 | GUIDE WHEEL HUB ASSEMBLY                 | 2   |
| 5D74715H01 | COMPRESSOR                               | 1   |
| 5D74715H07 | VALVE-CHECK                              | 4.  |
| 5D74716H02 | COIL - CONDENSER                         | 2   |
| 5D74716H05 | VALVE - RELIEF                           | 4   |
| 5D74716H06 | ISOLATOR - SHOCK MOUNT                   | 8   |
| 5D74716H08 | VALVE - SERVICE                          | 2   |
| 5D74716H09 | RECEIVER - LIQUID                        | 4   |
| 5D74716H10 | MOTOR - CONDENSER                        | • 2 |
| 5D74716H14 | VALVE - PURGE                            | 4   |
| 5D74716H20 | VALVE - RECEIVER (INLET AND OUTLET)      | 3   |
| 5D74717H04 | BLOWER (RH)                              | 1   |
| 5D74717H08 | MOUNT-SHOCK                              | 16  |
| 5D74717H11 | COIL-EVAPORATOR                          | 2   |
| 5D74717H17 | VALVE-LIQUID & MODULATING                | 2   |
| 5D74717H19 | VALVE-EXPANSION                          | 2   |
| 5D74717H23 | THERMOSTAT-OVERHEAT                      | 2   |
| 5D74717H24 | BLOWER (LH)                              | 1   |
| 5D76262H03 | EQUALIZER VALVE 110 PSI                  | 4   |
| 5D76263H22 | VEHICLE RADIO 1)                         | 1   |
| 5D77763G01 | DIGITAL I/O INTERFACE MODULE PDISO-8     | 1   |
| 5D77773H05 | ETHERNET EXPRESS PRO 10+                 | 1   |
| 5D77773H06 | ETHERNET EXPRESS PRO 10+                 | 1   |
| 5D77998H27 | FILTER DRIER CARTRIDGE                   | 6   |
| 5D79410H01 | DTE/TERM'D LINE DRIVER CARD              | 2   |
| 5D79410H02 | DTE/UNTERM'D LINE DRIVER CARD            | 2   |
| 5D80189H01 | CPU BOARD PENTIUM P5000HX SERIES         | 1   |
| 5D81178H01 | ETHERNET PC LINK2 BD                     | 1   |

| Part No    | Description                            | Q(y |
|------------|----------------------------------------|-----|
| 5D81799G01 | CENTRAL RADIO SYSTEM COMPUTER ASSEMBLY | 1   |
| 60A2872G37 | CAM SWITCH TYPE XCA-398                | 2   |
| 6157A58H04 | THERMAL RELAY                          | 2   |
| 6246D69H09 | SHACKLE 7.25 X 2.75) .38 HR STL        | 16  |
| 6523B68H01 | Magnet                                 | 4   |
| 652A103H02 | DRAIN VALVE                            | 4   |
| 652A589H03 | WASHER .202) 2.375 DIA STL             | 50  |
| 6961C69G01 | ASSEMBLY DUAL QUICK RELEASE VALVE KIT  | 4   |
| 6965C16H02 | TRANSFORMER ENCAPSULATED               | 2   |
| 6967C72G02 | KNUCKLE CASTING                        | 24  |
| 6967C72G03 | KNUCKLE CASTING                        | 8   |
| 6969C55G01 | PANEL ASSEMBLY                         | 0   |
| 6971C67H02 | BREAKER 3 POLE 600 VAC 15 AMP          | 2   |
| 6971C67H07 | BREAKER 3 POLE 600 VAC 15 AMP          | 3   |
| 6971C68H01 | BREAKER 3 POLE 600 VAC 70 AMP          | 3   |
| 6971C68H04 | BREAKER 3 POLE 600 VAC 125 AMP         | 2   |
| 6972C93G01 | POWER RAIL JOINT ASSEMBLY              | 50  |
| 6972C93G02 | SIGNAL RAIL JOINT ASSEMBLY             | 40  |
| 6972C93G04 | HALF ALIGN PLATE ASSEMBLY              | 20  |
| 6972C93H01 | Plate, Joint                           | 6   |
| 6972C93H02 | Plate, Alignment                       | 6   |
| 6972C93H06 | Plate, Joint                           | 6   |
| 6972C94H05 | POWER COVER 5 FEET BEIGE               | 100 |
| 6972C94H21 | POWER COVER 2.50 FEET BEIGE            | 6   |
| 6972C95G03 | ISOLATION GAP                          | 10  |
| 6972C97G02 | POWER TERMINAL                         | 16  |
| 6972C98G02 | Expansion Joint Power                  | · 6 |
| 6973C66G02 | VARISTOR ASSEMBLY                      | 4   |
| 6973C66G07 | VARISTOR ASSEMBLY                      | 4   |
| 6973C66G10 | VARISTOR ASSEMBLY                      | 4   |
| 6973C66G14 | VARISTOR ASSEMBLY                      | 2   |
| 6974C38H01 | CARBON BRUSH GRADE 933                 | 40  |
| 6976C08G05 | ROLLER BEARING ASSEMBLY                | 6   |
| 6D56059G01 | DOOR OPERATOR R.H.                     | 4   |
| 6D56059H21 | CAM                                    | 6   |
| 6D56060G01 | DOOR OPERATOR L.H.                     | 4   |
| 6D56130G01 | POWER FEED ASSEMBLY                    | 5   |
| 6D56434G01 | HEADLIGHT/TAILLIGHT ASSY (CLEAR)       | 0   |
| 6D56434G02 | HEADLIGHT/TAILLIGHT ASSY (RED)         | 0   |
| 6D56434H07 | LAMP - HALOGEN HI/LO                   | 16  |
| 6D56434H08 | LAMP - INCANDESCENT RED                | 16  |
| 6D56529G01 | PROGRAM SWITCH PANEL ASSEMBLY          | 0   |
| 6D56575G01 | A/C COMPRESSOR ASSEMBLY UNIT           | 1   |
| 6D56575H04 | SWITCH-HIGH PRESSURE                   | 2   |
| 6D56575H05 | SWITCH-LOW PRESSURE                    | 2   |
| 6D56575H06 | SWITCH-MODULATION PRESSURE             | 2   |
| 6D56575H15 | ISOLATOR SHOCK MOUNT                   | 12  |

| Part No      | Description                              | Qty        |
|--------------|------------------------------------------|------------|
| 6D56575H18   | TRANSFORMER                              | 2          |
| 6D56575H19   | CIRCUIT BREAKER - COMPRESSOR             | 2          |
| 6D56575H20   | CIRCUIT BREAKER - CONDENSER FAN          | 2          |
| 6D56575H21   | CIRCUIT BREAKER - OVERHEAD HEATER        | 2          |
| 6D56575H22   | CIRCUIT BREAKER - BLOWER FAN             | 2          |
| 6D56575H23   | CONTACTOR                                | 4          |
| 6D56575H24   | RELAY BASE OVERLOAD                      | 2          |
| 6D56575H25   | OVERLOAD                                 | 6          |
| 6D56575H26   | OVERLOAD                                 | 6          |
| 6D56575H27   | PC BOARD CONTROL                         | 2          |
| 6D56576G01   | HVAC EVAPORATOR ASSEMBLY                 | 1          |
| 6D56576H02   | MOTOR-BLOWER 2-SPEED                     | 2          |
| 6D56576H07   | WHEEL-BLOWER (CW)                        | 1          |
| 6D56576H08   | WHEEL-BLOWER (CCW)                       | 1          |
| 6D56576H28   | HEATER ASSEMBLY                          | 2          |
| 6D56576H34   | SWITCH-AIRFLOW                           | 4          |
| 6D56576H36   | SENSOR-RETURN AIR (NOT SHOWN)            | <u>4</u> · |
| 6D56576H37   | VARISTOR-SURGE SUPPRESSOR                | 4          |
| 6D56576H40   | SWITCH FREEZE PROTECTION                 | 2          |
| 6D56631G01   | MANUAL CONTROLLER COMPARTMENT ASSEMBLY   | 0          |
| 6D56864G01   | CENTRAL CONTROL COMPUTER ASSEMBLY        | 1          |
| 6D56865G01   | FRONT END COMPUTER ASSEMBLY              | 1          |
| 6D56867G01   | OPERATOR STATION COMPUTER ASSEMBLY       | 1          |
| 6D56868G01   | GENERAL SYSTEM DISPLAY COMPUTER ASSEMBLY | 1          |
| 6D56869G01   | OFFICE NETWORK BRIDGE COMPUTER ASSEMBLY  | 1          |
| 6D57047G01   | TERMINAL BLOCK ASSY - P24 DISTRIBUTION   | 1          |
| 6D57052G01   | TERMINAL BLOCK PANEL - P24 DISTRIBUTION  | 1          |
| 6D57064G01   | ATC2 CRADLE - ASSEMBLY                   | 1          |
| 6D57226G01   | ATO COMPUTER ASSEMBLY                    | · 1        |
| 6D57226G02   | ATO COMPUTER ASSEMBLY                    | 1          |
| 6D57228G01   | INDUSTRY PACK BOARD ASSEMBLY             | 1 .        |
| 6D57252G01   | POWER SUPPLY ASSEMBLY                    | 1          |
| 6D57255G01   | GRAPHICS FRONT END COMPUTER              | 1          |
| 6D57299G01   | FIBER OPTIC TERMINAL BOX ASSEMBLY        | 1          |
| 6D57607H01   | GEALOC FIELD POWER SUPPLY                | 2 ·        |
| 6D57607H01   | GEALOC FIELD POWER SUPPLY                | 1          |
| 6D57612G01   | TERMINATION PANEL ASSEMBLY - JUMPER PNL  | 0.         |
| · 6D57695G01 | TERM CARD CRADLE ASSEMBLY                | 0          |
| 6D57696G01   | ATC2 CRADLE ASSEMBLY                     | 0          |
| 6D57740G02   | TERMINAL BLOCK ASSEMBLY                  | 0          |
| 6D57761G01   | SPEAKER/MICROPHONE PANEL ASSEMBLY        | 0          |
| 6D57762G01   | SPEAKER/MICROPHONE INSTALLATION          | 0          |
| 6D57793G01   | CONDENSER UNIT ASSEMBLY                  | 1          |
| 6D57793H02   | FAN-CONDENSER                            | · 2        |
| 6D57800G01   | FIRE EXTINGUISHER INSTALLATION           | 0          |
| 6D57803H01   | CPU BOARD                                | 2          |
| 6D57803H02   | CPU BOARD                                | 2 ·        |

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| - Part No -              | Description                                        | Qty  |
|--------------------------|----------------------------------------------------|------|
| 6D57820G01               | SAN FRANCISCO VEH COMMUNICATIONS CABLE 18          | 0    |
| 6D57825G01               | VEHICLE COMMUNICATION CONTROLLER HARNESS           | 0    |
| 6D57827H01               | DTE/TERM'D OPTO-ISOL'D LINE DRIVER BD              | 2    |
| 6D57827H02               | DTE/UNTERM'D OPTO-ISOL'D LINE DRIVER BD            | 2    |
| 6D57842G01               | RACKMOUNT DISPLAY COMPUTER ASSEMBLY                | 1    |
| 6D58053H01               | CENTRAL CONTROL - PWR SUPPLY ASSY                  | 1    |
| 6D58550G01               | IONIZATION SMOKE DETECTOR (CTR LOCATION)           | 3    |
| 6D59447G01               | LOWER DOOR GUIDE - C-100 & CX-100 VEHICLE          | 4    |
| 6D59447G02               | LOWER DOOR GUIDE - C-100 & CX-100 VEHICLE          | 4    |
| 6D59563G01               | DYNAMIC GRAPHICS ASSEMBLY                          | 4    |
| 6D59669H01               | SERIAL INTERFACE BOARD                             | 1    |
| 6D59669H02               | SERIAL INTERFACE BOARD                             | 1    |
| 70310CB07C               | SPRING PIN .125 DIA X .750 LG SST                  | 100  |
| 70310CB07F               | SPRING PIN .125 DIA X 1.00 LG SST                  | 40   |
| 70310CB0BA               | SPRING PIN .188 DIA X 1.00 LG SST                  | 100  |
| 70310CB0DT               | SPRING PIN .250 DIA X 1.60 LG SST                  | 300  |
| 70510CD0D1<br>70500CT00Y | WASHER .375 STD STL                                | 100  |
| 70510CV10G               | LOCKWASHER .138 REG STL                            | 100  |
| 70510CV10Q               | LOCKWASHER .158 REG STL                            | 100  |
| 70510DL10S               | LOCK WASHER .500 X-DUTY STL                        | 100  |
| 73482AP00S               | FUSE 60A 250V SB                                   | 100  |
|                          |                                                    |      |
| 760C217G07<br>795C168G01 | SHUNT<br>CONTACTOR ARC CHUTE - MOLDED              | 8    |
| 8368D84H26               | VEHICLE GLASS                                      | 4 8  |
| 8368D84H20<br>8368D84H27 | VEHICLE GLASS                                      | 2    |
| 8368D84H27<br>8368D84H28 | VEHICLE GLASS                                      | 4    |
|                          | TYPE TE-359 BTRY CHGR & DOOR SPLY G/ASSY           | 2    |
| 8368D93G06<br>8584C27G01 | HYDRAULIC HOSE ASSEMBLY                            |      |
|                          |                                                    | 1    |
| 8584C27G02               | HYDRAULIC HOSE ASSEMBLY                            | 1    |
| 8584C27G03<br>8584C27G05 | HYDRAULIC HOSE ASSEMBLY<br>HYDRAULIC HOSE ASSEMBLY | 1    |
| 8588C18H01               | SWITCH 2 POS - 12 CONTACT                          | 1    |
| 8589C64100               |                                                    | 2    |
|                          | SPRING BRAKE CHAMBER ASS'Y                         |      |
| 8589C64100               | SPRING BRAKE CHAMBER ASS'Y                         | 8    |
| 8589C64185               | SEAL ADJUSTING BOLT                                | 16   |
| 8589C64185               | SEAL ADJUSTING BOLT                                | 32   |
| 8589C64H13               | SPINDLE WHEEL BEARING                              | 1    |
| 8589C64H14               | O RING                                             | 60 · |
| · 8589C64H62             | CONE HUB BRG. OUTER                                | 4    |
| 8589C64H63               | CUP HUB BRG. OUTER                                 | 4    |
| 8589C64H64               | NUT WHEEL STUD                                     | 40   |
| 8589C64H67               | CUP HUB BRG. INNER                                 | 4    |
| 8589C64H68               | CONE HUB BRG. INNER                                | 4    |
| 8589C64H69               | OIL SEAL HUB BRG.                                  | 8    |
| 8589C64H71               | BRAKE DRUM                                         | 4    |
| 8589C64H72               | CAP SCREW                                          | 40   |
| 8589C64H74               | BRAKE LINING KIT                                   | 8    |

| PartNo                   | Description                                | Qiy  |
|--------------------------|--------------------------------------------|------|
| 8589C64H77               | COLLET NUT - BRAKE CHAMBER                 | 8    |
| 8589C64H77               | COLLET NUT - BRAKE CHAMBER                 | 16   |
| 8589C64H78               | RIVETS                                     | 140  |
| 8589C64H79               | LININGS                                    | 16   |
| 8589C64H80               | BOLT ADJUSTING                             | 16   |
| 8589C64H80               | BOLT ADJUSTING                             | 32   |
| 8589C64H86               | CAP SCREW HOLD DOWN CLIP                   | 8    |
| 8589C64H86               | CAP SCREW HOLD DOWN CLIP                   | 16   |
| 8589C64H87               | SPRING - BRAKE SHOE RETURN                 | 8    |
| 8589C64H87               | SPRING - BRAKE SHOE RETURN                 | 16   |
| 8589C64H88               | BRAKE SHOE & LINING ASS'Y                  | 8    |
| 8589C64H88               | BRAKE SHOE & LINING ASS'Y                  | 16   |
| 8589C64H90               | NUT HOLD DOWN CLIP                         | 8    |
| 8589C64H90               | NUT HOLD DOWN CLIP                         | 16   |
| 8589C64H91               | CLIP HOLD DOWN                             | 8    |
| 8589C64H91               | CLIP HOLD DOWN                             | 16   |
| 8589C64H93               | WEDGE ASSEMBLY                             | 8    |
| 8589C64H93               | WEDGE ASSEMBLY                             | 8    |
| 8589C64H94               | SPIDER BRAKE                               | 8    |
| 8589C64H94               | SPIDER BRAKE                               | 2    |
| 8591C07H01               | SIGNAL COVER 5 FEET BEIGE                  | 80   |
| 8591C07H13               | SIGNAL COVER 2.50 FEET BEIGE               | 4    |
| 8591C09G01               | SIGNAL EXPANSION JOINT ASS'Y               | . 10 |
| 8591C12G01               | SIGNAL ISOLATION JOINT                     | 6    |
| 8592C16G03               | STD. CONTACTOR 200 AMPS TYPE UMC-109A      | 2    |
| 8592C18G06               | STD CONTACTOR AND INTERLOCKTYPE UMC-109G   | 2    |
| 8593C08H03               | TRANSFORMER 600V/60HZ & 600V/50HZ 10VA     | 3    |
| 8593C21G01               | CYLINDER HEAD ASSY - LOW PRESSURE          | 2    |
| 8593C22G01               | CYLINDER HEAD ASSY - HIGH PRESSURE         | 2    |
| 8593C23G01               | OIL PUMP COVER (WITH UNLOADERS)            | 2    |
| 8594C63H02               | STD. FAN 24 VDC 94 CFM                     | 2    |
| 8594C63H04               | STD. FAN 12 VDC 106 CFM                    | 3    |
| 8617A79G01               | CONTACT WITH INSERT                        | 8    |
| 8618A09G07               | RESISTOR ASSEMBLY                          | 1    |
| 8838D98H01               | WHEEL HUB                                  | 2    |
| 8840D42G06               | GENERAL ASSEMBLY TYPE UT-323 OVERLOAD      | 2    |
| 8840D61G01               | RESISTOR PANEL R.H.                        | 2    |
| 8840D61G01               | RESISTOR PANEL L.H.                        | 2    |
| 8840D61G02               | RESISTOR PANEL R.H.                        | 1    |
| 8840D61G03               | RESISTOR PANEL L.H.                        | 1    |
| 8840D97G02               | INDICATOR ASSEMBLY                         | 2    |
| 8840D97G02               | PUSHBUTTON ASSEMBLY                        | 2    |
| 8840D97G03               | PUSHBUTTON ASSEMBLY                        | 2    |
| 8840D97G05               | PUSHBUTTON SWITCH ASSEMBLY                 | 2    |
| 8840D97G03               | PUSHBUTTON ASSEMBLY                        | 2    |
| 8840D97G07<br>8840D97G08 | PUSHBUTTON ASSEMBLY                        | 2    |
| 8840D97G08<br>8840D97G09 | PUSHBUTTON ASSEMBLY<br>PUSHBUTTON ASSEMBLY | 2    |
| 004009/0009              |                                            | 2 ·  |

# Appendix E-2: Spare Parts

| Part No           | Description                                     | Qty |
|-------------------|-------------------------------------------------|-----|
| 8840D97G11        | PUSHBUTTON ASSEMBLY                             | 2   |
| 8840D97G12        | PUSHBUTTON ASSEMBLY                             | 2   |
| 8840D97G13        | PUSHBUTTON ASSEMBLY                             | 2   |
| 8840D97G14        | PUSHBUTTON ASSEMBLY                             | 2   |
| 8840D97G32        | PUSHBUTTON ASSEMBLY                             | 2   |
| 8840D97G38        | PUSHBUTTON SWITCHES & INDICATORS                | 2   |
| 8840D97G44        | INDICATOR ASSEMBLY                              | 2   |
| 8840D97G83        | ALARM TEST PUSBUTTON ASSEMBLY                   | 2   |
| 8840D97G84        | FLUID LEVEL INDICATOR ASSEMBLY                  | 2   |
| 8840D97G85        | PUSHBUTTON ASSEMBLY                             | 2   |
| 8844D32G01        | AIR CONTROL PKG SOLENOID VALVE                  | 2   |
| 8844D32H02        | COIL, 24 VDC                                    | 4   |
| 8844D32H03        | REPAIR KIT                                      | 4   |
| ZL145WA           | Siemens Hicom CBX w/ 31E5533, 31E4405, & SLA16N | 2   |
| VideoPoster VPIII | Apollo Display Technology (Video PC Boards)     | 4   |
| 46" LCD Display   | Apollo Display Technology (46" Monitor)         | 8   |

| Item                                          | <u> 2</u> | Raff No Lo                                                                                                     | cation      |
|-----------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------|-------------|
| Laser printer                                 | 2         |                                                                                                                | 2ND FLOOR   |
| Laser color printer                           | 1         |                                                                                                                | 2ND FLOOR   |
| IBM compatible PCs (servers)                  | 2         |                                                                                                                | 2ND FLOOR   |
| Spectrum analyzer w/noise marker              | 1         |                                                                                                                | ALFREDO     |
| Tic tracer                                    | 12        |                                                                                                                | ALL TECHS   |
| Frequency/Time domain reflectometer           | 1         |                                                                                                                | AVMET V102  |
| Traction Motor Support Cradle                 | 1         | 5D79169G01                                                                                                     | BAY 5 WALL  |
| Dot matrix printers                           | 2         |                                                                                                                | CENTRAL     |
| System simulator                              | 1         |                                                                                                                | CENTRAL     |
| Soldering/desoldering stations                | 2         |                                                                                                                | ELEC ROOM   |
| Soldering iron                                | 2         | •                                                                                                              | ELEC ROOM   |
| Bench VAST                                    | 1         |                                                                                                                | ELEC ROOM   |
| Portable VAST                                 | 1         |                                                                                                                | Supply room |
| Prom programmer                               | 1         |                                                                                                                | ENG OFF     |
| Tool, Actuation, Flat Tire System             | 1         | 401P401H14                                                                                                     | LEAD DESK   |
| Battery soldering iron                        | 2         |                                                                                                                | LIB         |
| End Play Measuring Tool                       | 2         | 6D55567G01                                                                                                     | Mech Room   |
| Guidewheel Assembly Fixture                   | 1         | 6D55460G01                                                                                                     | Mech Room   |
| Bearing Cup Driver (Upper)                    | 1         |                                                                                                                | Mech Room   |
| Bearing Cup Driver ( Lower)                   | 1         | 1C44423H01                                                                                                     | Mech Room   |
| Grease Seal Driver                            | 11        | 1C44424H01                                                                                                     | Mech Room   |
| Grease Seal Driver (Lower)                    | 1         |                                                                                                                | Mech Room   |
| Dust Shield Driver                            | 1         | 1C44418G01                                                                                                     | Mech Room   |
| Coupling Hub Hydraulic Removal Assy           | 1         |                                                                                                                | Toolcrib    |
| Plate 11.00 X 23.63 X .25 Thk Alum (H01)      | 3         | 1C43246H01                                                                                                     | Mech Room   |
| Planetary Hub Bearing Cup Puller              | 1         | 5D56121G01                                                                                                     | 1108        |
| Plannetary Hub/brake Drum Cradle              | 1         | 1C43244G01                                                                                                     | BAY 5 WALL  |
| Planetary Ring Gear Lifting Tool              | 1         |                                                                                                                | V104        |
| Dust Seal Driver                              | 1         |                                                                                                                | Mech Room   |
| Brake Adjustment Tool                         | 1         |                                                                                                                | Mech Room   |
| Cable W/Custom Deutsch Connector              | 1         |                                                                                                                | LEAD DESK   |
| 6 channel chart recorder                      | 1         |                                                                                                                | mechrm cab  |
| 8 channel chart recorder                      | 1         |                                                                                                                | mechrm cab  |
| Power supply, 40 V - (BK Model 6020, 0-60v)   | 1         |                                                                                                                | mechrm cab  |
| Digital thermometer                           | 1         |                                                                                                                | MRA3,       |
| Track mapper                                  | 0         |                                                                                                                | NA          |
| IBM compatible PCs (work stations)            | 21        |                                                                                                                | OFFICES     |
| Portable IBM compatible PC                    | 2         |                                                                                                                | SUPS        |
| Analog multimeter, portable, Simpson 260-p    | 1         |                                                                                                                | ENG OFF     |
| Ty wrap tool                                  | 3         | ·                                                                                                              | TOOL WALL   |
| Frequency counter                             | 1         | :                                                                                                              | U127        |
| Function generator                            | 1         |                                                                                                                | U127        |
| Signal generator, Lizard portable Transmitter | 1         | 1                                                                                                              | LIB         |
| Power meter w/power head                      | 1         |                                                                                                                | U127        |
| Sound level meter                             | 1         |                                                                                                                | U127        |
| Bench model DMM                               | 1         | ·                                                                                                              | U132        |
| Hi-pot                                        | 1         |                                                                                                                | U132        |
| Power supply, 0-30 V, ELECTO IND. MODEL 3012A | 1         |                                                                                                                | U132        |
| Fluke, 123 Scopemeter                         | 1         |                                                                                                                | V131        |
| FLuke, 43B Power Analyser                     | 1         |                                                                                                                | V133        |
| Meggar, 1000 V, AVO Model 210600              | 1         |                                                                                                                | V102        |
| Commutator Resurfacing Tool Assy              | 1         | 2255F39G01                                                                                                     | V103        |
| Hub Seal Driver                               | 1         |                                                                                                                | V103        |
| Grease Cap Driver                             | 1         |                                                                                                                | V104        |
| Bearing Nut Removal Tool                      | 1         |                                                                                                                | V104        |
| Bearing Cup Driver                            | Ī         | 1B39120H01                                                                                                     | V104        |
| Bearing Cup Driver                            | 1         | the second s | V104        |
| Pinion Yoke Remival/Installation Tool Set     | 1         |                                                                                                                | V104        |
|                                               | _         |                                                                                                                |             |

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| Item                                            | Qty           | Part No.       | Location      |
|-------------------------------------------------|---------------|----------------|---------------|
| Socket 1.75 Hex Special                         | 1             | 4077B16G02     | V104          |
| Special Socket 1)                               | 1             | 4724A87H02     | V104          |
| Phase sequence indicator                        | 1             |                | V107          |
| Clamp-on current meter (AC/DC) FLUKE 31         | 1             |                | V107          |
| Heat gun                                        | 2             |                | V111          |
| Hand-held DVM                                   | 8             |                | V112, MRA3    |
| Force gauge                                     | 1             |                | V117, MRA1    |
| Clamp-on current probe                          | 1             |                | V131          |
| Power supply, 20 V, Tenma 72-6628               | 1             |                | V132          |
| Resistor decade box                             | 1             |                | V133          |
| 10' X 20' Flat Bed Trailer                      | 0             |                | NR            |
| FLUKE 863, Graphic multimeter                   | 1             |                | V102          |
| O-scope probe (provided w/ scope)               | 2             |                | V102          |
| O-scope probe (provided w/ scope)               | 1             |                | V117          |
| Capacitance decade box                          | 1             |                | LIB           |
| Extender boards, propulsion                     | 3             | 225P748G01     | A129          |
| Extender boards, ATO                            | 2             | 409P248H90     |               |
| Extender boards, wayside                        | 3.            | 226P338G01     | ELEC ROOM     |
| Power Supply, B&K Precision model 1715 0-60v    | 1             |                | mechrm cab    |
| Notch Filter                                    | 1             |                | NA            |
| Fluke Thermal Imager, Model TI-30, s/n 89720099 | . 1           |                | LIB           |
| Fluke Power Quality Analyser, Model 434,        | 1             |                | LIB           |
| Special Coupler Tool Set                        | 1             |                | mechroomcab   |
| Adhesive Back Sandpaper for Orbital Sander      | 1             | 2D709          | BACK WALL     |
| 7" Grinder disc                                 | 10            | 3VP30          | back wall     |
| 41/2" Grinder disc                              | 20            | 3VX05          | back wall     |
| 14" Cut-off blades                              | 6             | 4A896          | back wall     |
| 6' X 8' Welding Screen                          | 1             | 3T970          | Bay 1 bot     |
| Drum dollies                                    | 3             | 3KR53          | bay 5         |
| 25' Extension Cord                              | 4             | 2W566          | bay flooor    |
| High Pressure Steam Cleaner                     | 1             | 5GH72          | BOT FLOOR     |
| Micrometer Set 0-6"                             | 1             | 5C675          | Library       |
| Wheel Chauks                                    | 2             | 4W941          | Load dock     |
| 5" Bench vise                                   | 2             | 1ATH0          | mech room     |
| 14" Cut-off saw, Milwaukee                      | 1             | 2AC06          | MECH ROOM     |
| Rechargable Latern                              | 3             | 2V837          | MECH ROOM     |
| Rechargable Flashlight                          | 3             | 2V888          | mech room     |
| 8" Bench Grinder                                | 1             | 4Z909          | Mech room     |
| 8" Bench vise                                   | 2             | 5C804          | Mech room     |
| 9-Speed 20" Floor drill press                   | 1             | 6W281          | Mech room     |
| 15" Floor Standing Band Saw                     | 1             | 6Y002          | Mech room     |
| Wheel bearing packer                            | 1             | 6Y907          | Mech room     |
| Heavy duty industrial workbench                 | 6             | 7W087          | MECH ROOM     |
| 12 ton Hydraulic press and H frame              | 1             | 772820         | MECH ROOM     |
| Shop Stools                                     | 6             | 2W175          |               |
|                                                 | 1             |                | mech room fir |
| 12" Dial Caliper                                | <b>_</b>      | <u>5C665</u>   | MRA1          |
| 5/16" - 6" Internal Micrometer                  | 1             | <u>5C717</u>   | MRA1          |
| 6" Dial Caliper<br>6" Digital Caliper           | $\frac{1}{2}$ | 5C667<br>5C672 | MRA1,U122     |
| Degreaser transfer pump                         | 1             | 2P683          | MRA1.U122     |
| 9" long Hex 3/8" drive ratchet                  | 1             | 1AF34          | sh floor      |
| Metal Tool Bax                                  | 2             |                | shift toolbox |
|                                                 |               | 2W019          | Shop floor    |
| Oil Waste Can                                   | 1             | 2W560          | Shop floor    |
| Hydraulic Lift Table                            | 2 .           | . 3KR47        | Shop floor    |
| 3 Ton Gantry                                    | 1             | <u>3KR62</u>   | Shop floor    |
| Crane Trolley                                   | 1             | <u>3TP86</u>   | shop floor    |
| Platform Truck                                  | 2             | <u>3W077</u>   | shop floor    |
| 8' Stepladder                                   | 2             | 3W142          | shop floor    |

| ltem                                               | Qty                                                  | -Part No.             | Location                       |
|----------------------------------------------------|------------------------------------------------------|-----------------------|--------------------------------|
| 3" Fiberglass Step Stool                           | 6                                                    | 3W332                 | shop floor                     |
| 12'Stepladder                                      | 1                                                    | 3W422                 | shop floor                     |
| Grease pail doily                                  | 1                                                    | 4F987                 | shop floor                     |
| Drum Containment Platform Ramp                     | 1                                                    | 4RF65                 | shop floor                     |
| Drum Containment Platform                          | 2                                                    | 4YF76                 | shop floor                     |
| Heavy Dity Rool Around Tool Box                    | 2                                                    | 6A575                 | shop floor                     |
| Oil dispenser, air operated                        | . 1                                                  | 6Y820                 | shop floor                     |
| Grease Gun Handle Style                            | 2                                                    | 6Y826                 | shop floor                     |
| Grease Gun Pistol Style                            | 2                                                    | 6Y829                 | shop floor                     |
| 12" Felxible Hose                                  | 6                                                    | 6Y835                 | shop floor                     |
| Oil dispenser, Hand operated                       | 1                                                    | 6Y881                 | shop floor                     |
| Air operated grease gun                            | 2                                                    | 6Y885                 | shop floor                     |
| Oil drain pan                                      | 1                                                    | 6Y902                 | shop floor                     |
| Oil drain pan                                      | 1 1                                                  | 6Y903                 | shop floor                     |
| Drain pan funnel                                   | 1                                                    | 6Y910                 | shop floor                     |
| 50' Water Hose                                     | 3                                                    | 1P649                 | SHOP FLR                       |
| 9" long Hex 1/2" drive ratchet                     | 1                                                    | 3R747                 | shop tool box                  |
| Bins for storage cabinets                          | 32                                                   | 2W779                 | storeroom                      |
| Bins for storage cabinets                          | 96                                                   | 2W780                 | storeroom                      |
| 2 3/4 Ton Pallet Jack                              | . 1                                                  | 3KR84                 | storeroom                      |
| Plate Dolley                                       | 2                                                    | 3W218                 | storeroom                      |
| 10001b Floor Scale                                 | 1                                                    | <u>3</u> W494         | storeroom                      |
| Fire safety cabinet, safety yellow                 | 2                                                    | 4T196                 | storeroom                      |
| Sliding drawer units                               | 2                                                    | 41190<br>5W885        | storeroom                      |
| 1 3/4" Cup Brush                                   | 5                                                    | 3A203                 | supply shelf                   |
| 1/2" Spiral Wire Brush                             | 2                                                    | 4F727                 | Supply shelf                   |
| 1" Spiral Wire Brush                               | 2                                                    | 4F731                 | supply shelf                   |
| Maintenance Free Respirators                       | 2                                                    | 4JG05                 | Supply shelf                   |
| Band saw blades                                    | 6                                                    | 4L226                 | Supply shelf                   |
| Band Saw Blades                                    | 6                                                    | 4L220<br>4L236        | Supply shelf                   |
| Disposible Ear Plugs                               | 1                                                    | 4T147                 | Supply shelf                   |
| Disposible har rings<br>Dust / Mist Respirator     | 2                                                    | 4T823                 | Supply shelf                   |
| 8" Bench grinding wheels                           | 4                                                    | 6A091                 | Supply shelf                   |
| Funnel                                             | 4                                                    | 6Y806                 | Supply shelf                   |
| Utility Knife                                      | 6                                                    | 01800<br>5R685        | tool bxs                       |
| Tot Bag for Tools                                  | 6                                                    | 4A670                 | Toolcrib                       |
| 101 Bag 101 1001s                                  | 2                                                    | <u>4K799</u>          | Toolcrib wall                  |
| Carpenter Square                                   | $\frac{2}{1}$                                        | 5W189                 | Toolcrib wall                  |
|                                                    |                                                      |                       |                                |
| 50 foot Extension Cord                             | 2                                                    | <u>5W576</u><br>5W577 | Toolcrib wall<br>Toolcrib wall |
| 100' Extension Cord<br>48" Straight Edge           | 2                                                    | 6C233                 |                                |
| Combination Square 12"                             | 2                                                    | 6X996                 | Toolcrib wall<br>Toolcrib wall |
|                                                    |                                                      |                       |                                |
| 24" Straight Edge                                  | 2                                                    | <u>2H406</u>          | Toolcrib wall 1                |
| Freon Recovery System                              | 1                                                    | 1Z861                 | TOP SHELF                      |
| A/C Pressure Vacum Gauge Set                       | $\left  \begin{array}{c} 1 \\ 1 \end{array} \right $ | 3T078                 | U115                           |
| Freon Leak Detector                                |                                                      | <u>3T449</u>          | <u>U115</u>                    |
| Hole Saw Kit                                       |                                                      | <u>4L638</u>          | <u>U118</u>                    |
| Pneumatic Rivet Gun                                |                                                      | <u>4Z913</u><br>6A644 | U118                           |
| Manual Rivet Gun Kit                               | 2                                                    |                       | <u>U118</u>                    |
| Chain Hoist 3 Ton                                  | 1                                                    | 3KR22<br>3ZC68        | U119                           |
| 4 ton Hydraulic ram system                         | 1                                                    |                       | U119                           |
| Chain Hoist                                        | 1                                                    | 4Z312                 | <u>U119</u>                    |
| 3/8" 18V battery powered drill with keyless chuck. | 2                                                    | 4PD94                 | <u>U121</u>                    |
| Circular saw, 71/2" blade, Milwaukee               |                                                      | 4Z372                 | U121                           |
| Circular saw blades                                | 2                                                    | <u>5G890</u>          | <u>U121</u>                    |
| Depth Gauge 0"-6"                                  | 1                                                    | 5C723                 | <u>U122</u>                    |
| 1/2" Electric impact wrench, Dewalt DW291          | 1                                                    | 4JB74                 | U123                           |
| 1/2" Hammer drill, Milwaukee                       | 1                                                    | 6Z040                 | U123                           |

| Item                                              | Oby | Part No-       | Location       |
|---------------------------------------------------|-----|----------------|----------------|
| 8' Nylon Sling                                    | 4   | 1A598          | U124           |
| Shackle                                           | 6   | 2G796          | U124<br>U124   |
| Chain Hooks                                       | 12  | 3X692          | U124           |
| 3/8" Chain (Bucket)                               | 12  | 3Z940          | U124<br>U124   |
| Chain Slings                                      | 2   | 4X461          | U124<br>U124   |
|                                                   |     | 1Y335          |                |
| Portable band saw stand                           | 1   |                | U126           |
| Portable variable speed band saw, Deep cut,       | 1   | 6Z345          | <u>U126</u>    |
| 1/4" Die Grinder Milwauke                         | ^   | 1Y068          | U128           |
| 1/2" Electric drill with keyless chuck, Milwaukee | 2   | 4A937          | U128           |
| 6 ft. Nylon sling                                 | 2   | <u>1A597</u>   | U129           |
| 10'Nylon Sling                                    | 2   | 6A259          | U129           |
| Electric angle grinder 41/2", Milwaukee           | 1   | 4A942          | U133           |
| Electric 2" die grinder, Milwaukee                | 1   | 4Z818          | <u>U133</u>    |
| Welding Helmet                                    | 1   | 1N782          | V105           |
| Welding Vest                                      | 2   | 2AG83          | V105           |
| Welding Gloves                                    | 2   | 4JF98          | V105           |
| Deluxe Drum Wrench                                | 1   | <u>6A240</u>   | V108           |
| Cable Cutter 24" Long                             | 1   | 2G996          | V113           |
| 8" Bench grinder stand                            | 1   | 4Z154          | V114           |
| 9" Suction Cups                                   | 4   | <u>6A987.</u>  | V115           |
| Air operated blow gun, regulated to 30psi         | 4   | 5X786          | V116           |
| 6" Cross vise                                     | 1   | <u>6Z848</u>   | V119           |
| Oil transfer pumps                                | 2   | <u>1P893</u>   | V120,sh floor  |
| Hand Stamps, Letter & Numbers                     | 1   | 1F113          | V121           |
| Stencil set                                       | 1   | 6A231          | V121           |
| HVLP Spray Gun                                    | 1   | 4TH37          | V125           |
| Motor for Band Saw                                | 1   | 6K639          | V125           |
| Drill Bit Set 8 Piece (9/16" -1")                 | 1   | 1A050          | V126           |
| Drill Bit Set 118 Piece (1/16" -1/2")             | 2   | 1A522          | V126           |
| 3/4" Dewalt Impact Gun                            | 1   | 3MJ17          | V128           |
| Orbital Sander Milwaukee                          | 1   | 3W786          | V128           |
| Electric angle grinder 7°, sander Milwaukee       | 1   | 4Z819          | V128           |
| 3/8" Electric right angle drill, Milwaukee        | 1   | 6Z037          | V128           |
| Battery charger                                   | 1   | 2Z556          | V131           |
| Portable Lite Stands                              | 3   | 83998          | back wall      |
| 18 Piece Hex Key T Handle Set                     | . 1 | 46288          | box 4 floor    |
| 13 Piece Ball Hex Key Set                         | 2   | 46754          | bx 4 floor     |
| 110V Mig Welder                                   | 1   | 20418          | I103           |
| 16 Gallon Shop Vacum                              | 1   | 17703          | mech room      |
| Ignition Wrench Sets                              | 2   | 43109          | mech room an   |
| 3 Piece Channel Lock Set                          | 2   | 45439          | mra2,mrd1, 2nd |
| 3lb Sledge Hammer                                 | 2   | 38311          | mra4           |
| 16oz Rubber Mallet                                | 2   | 45787          | mra4,mrd3      |
| 16oz Claw Hammer                                  | 2   | 38127          | mra4,tocribwa  |
| 5 Piece Pry Bar Set                               | 2   | 43067          | mra4.tocribwa  |
| 10" Pipe Wrench                                   | 1   | 30841          | MRB2           |
| Ratchet Wrench Sets (1/4"-7/8")                   | 2   | 42160          | mrb2           |
|                                                   |     | 44036          | mrb2.mrd1.2nd  |
| 5 Piece Adjustable Wrench Set<br>7 Piece PlierSet | 1 2 | 44036<br>45225 |                |
| 13 Piece Vise Grip Set                            | 1   | 45634          | mrc2           |
| 3 Piece Extra Large Adjustable Wrench Set         | 1   | 44916          | U109           |
|                                                   |     |                | mrd3, tc wall  |
| 3/8" X25' Air Hose                                | 3   | 16203          | shop floor     |
| 3/8" X 50'Air Hose                                | 6   | 16204          | shop floor     |
| 3/8" X 50' Hose Reels                             | 6   | 18644          | shop floor     |
| Halogen Drop Lights                               | 6   | 83895          | shop floor     |
| Flourescent Drop Lights on Reels                  | 12  | 83912          | shop floor     |
| 15" Hand Saw                                      | 1   | 36071          | tool crib      |
| 18" Pipe Wrench                                   | 1   | 30843          | tool crib wall |

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| ltem                                        | Qty | Paul No. | Location        |
|---------------------------------------------|-----|----------|-----------------|
| 14 Piece Clamp Set                          | 1   | 31470    | tool crib wall  |
| Oxy / Accet Cutting Torch                   | 1 1 | 20170    | tool crib.      |
| Hand Held Vacum 3 Gallon                    | 2   | 17768    | tool crib, shop |
| Portable Air Compressor                     | 1   | 16735    | tool shed       |
| 25 Piece File Set                           | 2   | 31233    | U103, various   |
| 20 Piece Screwdriver Sets                   | 2   | 47452    | u105, bx 4      |
| Stuby Wrench Set                            | 2   | 44138    | u106, mrb1      |
| Extra Large Wrench Set (1 1/16"-11/2")      | 2   | 45965    | u106,mrb1       |
| Ratcheting (5/6"-1/2") Tap Holder           | 1   | 4064     | U108            |
| Ratcheting (0"-1/4") Tap Holder             | 1   | . 4065   | U108            |
| 58 Piece Tap and Die Set                    | 1   | 52311    | u108            |
| 8 Piece File Set w/Hand]es                  | 2   | 31326    | bx 4 floor      |
| 259 Piece Standard Mechanic Tool Set        | 4   | 33758    | shop floor      |
| 5 Piece Hammer Set                          | 2   | 38074    | toolcrib wall   |
| Offset Ratchet Wrench Sets                  | 2   | 43375    | mrb2            |
| 9 Piece PlierSet                            | 2   | 45311    | 2nd shift 2a    |
| 10 Piece Vise Grip Set                      | 1   | 45635    | MRD2            |
| 3 Piece Folding Hex Key Set                 | 2   | 46287    | bx 4 floor      |
| Offset Ratcheting Driver Set                |     | YA487    | BX 4 FLR        |
| Mag Base Dial Indicator                     | 1   | GA3645   |                 |
| Tire Infaltor w/Gauge                       | · 4 | YA258    | GUIDE CAB       |
| 3/8" 6 pt. Impact Standard Socket Set       | 4   | 212IMFY  | Mech floor      |
|                                             |     |          | mechroom wa     |
| 3/8" 6 pt. Impact Deep Socket Set           | 1   | 212SIMFY | mechroom wa     |
| 1/2" 6pt Impact Standard Socket Set         | 1   | 320IMY   | mechroom wa     |
| 1/2" 6 pt Impact Deep Socket Set            | 1   | 320SIMY  | mechroom wa     |
| 3/4" 6 pt Drive deep well impact socket set | 2   | 420SIMY  | mechroom wa     |
| 3/4" 6 pt Shallow Thin Wall Socket Set      | 2   | 422IMFSY | mechroom wa     |
| 3/4" 6 pt. Drive impact socket set          | 2   | 427IMY   | mechroom wa     |
| 3/8" Drive Torque Wrench 40-200inch Ib      | 1   | QC2R200  | MRA3            |
| 1/2" Drive Crows Foot Set                   | 1   | 314SCO   | MRB2            |
| 1/2" Spline Socket Torque Adapter           | 1   | SRES306  | MRB2            |
| Spline Wrench Set (7/32"-1")                | 1   | XDES608A | MRB2            |
| Valve Stem Core Removcal Tool               | 2   | TR1170   | MRC2            |
| 3" Cut Off Saw                              | 11  | AT15     | MRC3            |
| 1/4" Drive Impact ratchet                   | 2   | AT200D   | MRC3            |
| 1/2" Drive impact gun                       | 2   | AT500E   | MRC3            |
| 3/8" Drive impact ratchet                   | 2   | AT700E   | MRC3            |
| 3/8" Right Angle Air Drill                  | 1   | AT81     | MRC3            |
| 3/8" Drive impact gun                       | 2   | IM31     | MRC3            |
| 3/8" Air Drill                              | 1   | PDR3A    | MRC3            |
| Screw Starter Flat Tip                      | 2   | SSM5A    | MY CAB          |
| Torque Multiplyer                           | 1   | GA184A   | PIN TOOL BX     |
| General Purpose Puller Set                  | 1   | CJ2000SB | STORE WALL      |
| 3/4" 12 pt Standard Socket Set              | 2   | 414AHD   | U100            |
| Ratcheting Bit Set                          | 1   | CRA180PV | U101            |
| 6" Divider                                  | 1   | PMF129   | U102            |
| 1/4" Drive Torque Wrench 40-200inch Ib      | 1   | QC1R200  | U102            |
| Punch and Chiesel Holder                    | 2   | PPC5A    | U102, MRA3      |
| 1/4" Drive Torque Wrench 10-50inch Ib       | 2   | QC1R50   | U102.U107       |
| 6 Piece Long Roll Pin Set                   | 2   | PPCL60AK | U103            |
| 12 Piece Rool Pin Set                       | 2   | PPR712K  | U103            |
| Retaining Ring Plier Set                    | 1   | PRQ625   | U108            |
| Hole Punch Set                              | 1   | PGH8A    | U108            |
| 3/8" Drive Torque Wrench 20-1 OOft Ib       | 2   | QC2R100  | U108,MRA3       |
| 1/2" Drive Torque Wrench 50-250ft Ib        | 2   | QC3R250  | U117            |
| 3/4" Drive Torque Wrench 120-600ft Ib       | 2   | QC4R600A | U117.MRA3       |
| Rivet insert kit, Threadsetter Set          | 1   | HP650    | U118            |
| Cotter Pin Pullers                          | 4   | CP3B     | V103            |
|                                             |     |          |                 |

| Item                                            | Qiy | Part No.                               | Location                     |
|-------------------------------------------------|-----|----------------------------------------|------------------------------|
| Safety Wire Pliers                              | 2   | WTRW6                                  | V106                         |
| Safety Wire PLiers                              | 2   | WTRW9                                  | V106                         |
| Thermometer                                     | 4   | ACT83                                  | V116                         |
| Bent Feeler Gauge Set                           | 2   | FB300A                                 | V116,BX4FLR                  |
| Pneumatic Orbital Sander                        | 1   | PSF100                                 | V118                         |
| Air Nibbler                                     | 1   | AT18                                   | V118                         |
| 3/4" Drive impact gun                           | 2   | AT18<br>AT77                           | V123,MRC3                    |
|                                                 |     |                                        | V 123.MRC3                   |
| Carbon Scrapper Set                             | 2   | CSA300                                 |                              |
| Feeler Gauge Set                                | 2   | FBL325A                                | BX 4 FLR                     |
| Stick Style Tire Pressure Gauges                | 2   | GA246                                  | V113                         |
| Screw Starter Phillips Tip                      | 2   | GA260A                                 | BX 4 FLR                     |
| Tread Depth Gauge                               | 2   | GA599                                  |                              |
| 3/4" Drive Breaker Bar                          | 1   | L872RM                                 |                              |
| Scrapper Set                                    | 2   | <u>PK500</u>                           |                              |
| 1/8"-1/2" Reamer                                | 2   | R120                                   | PEG DRAW                     |
| 1/2"-1" Reamer                                  | 2   | R121                                   | PEG DRAW                     |
| Refrigeration Wrench                            | 2   | R404                                   |                              |
| 1/2" Drive Long Handle Ratchet                  | 2   | SL832                                  | MRA3                         |
| Xantrex Power Supply, model # XDL56-4P          | 1   |                                        | JEFF                         |
| RAD Torque Machine, model RAD 550SL             | 1   |                                        | shop floor                   |
| Micro-Ohmmeter, model# LOM-510A                 | 1   |                                        | JEFF                         |
| Vericom Brake rate Tester                       | 1 1 |                                        | Eric                         |
| Tyco Electronics Die Crimp# 2 for large Crimper | 1   |                                        | shop floor                   |
| QC2FR75 TORQUE WRENCHES                         | 3   | QC2FR75                                | 2 on U112, 1 MRA3            |
| Sandyjet Abrasive Sand Blaster                  | 1   | Q0211075                               | 3RD FLOOR                    |
| Genie Lift Truck,                               | 2   |                                        | 3RD FLOOR Bay 2              |
| Alcatel Vacuum Pump                             | 2   |                                        | back wall                    |
|                                                 |     | •                                      |                              |
| 12 FT extension Ladders                         | 2   |                                        | Bay 2 bot level              |
| Louisville Ladder /ramp                         | 1   | (TTOO                                  | Bay 2 bot level              |
| 6' Fiberglass Ladder, 6JJ82                     | 1   | 6JJ82                                  | Bay 2 bot level              |
| 28 ' Ladder 3W140                               | 2   | 3W140                                  | Bay 2 bot level              |
| MRV Fuel Tank                                   | 1   |                                        | Bay 5                        |
| 12' Cotterman Ladder                            | 1 1 |                                        | bay 5                        |
| 4 ' Cotterman Ladder                            | 1   |                                        | bay 5                        |
| Microair Vacuum System                          | 1   |                                        | bay 5                        |
| Tractmax hepa Vacuum                            | 1   |                                        | bay 5                        |
| Wesco Lift Dolly, DPL-54-2222                   | 1   | DPL-54-2222                            | Bay 5                        |
| Rolling Bin Carts                               | 1   |                                        | Bay 5                        |
| Lincoln electronic meter assy, quarts, 6WB36    | 1   | 6WB36                                  | Bay 5                        |
| Ridgid KJ-99 Jack Stands                        | 2   | KJ-99                                  | bay 5                        |
| 3/4 ton Wheel Dolly ATD-7227                    | 1   | ATD-7227                               | Bottom Floor                 |
| Wire Spool Spindle Rack                         | 1   |                                        | Bottom Floor                 |
| Pipe Rack                                       | 1   |                                        | Bottom Floor                 |
| Yellow containment Drums 55 gallon              | 4   |                                        | Bottom Floor                 |
| Black 4 way special pallets                     | 1   |                                        | Bottom Floor                 |
| Yellow Battery Containment pallet               | 1   |                                        |                              |
|                                                 |     | · ···································· | Bottom Floor<br>Bottom Floor |
| Orange Pallet Grabber                           | 1   |                                        |                              |
| 8 FT Loading Ramp walkway                       | 1   | 0.001                                  | Bottom Floor                 |
| Speed Scrub 2601 Power Floor Cleaner            | 1   | 2601                                   | Bottom Floor                 |
| Saber WINDSOR Floor Cleaner                     | 1   |                                        | Bottom Floor                 |
| Large Capacity Plastic Liquid storage Tank      | 1   |                                        | Bottom Floor                 |
| Yellow Lift cage for Forklift                   | 1   |                                        | Bottom Floor                 |
| Ridgid Tristand 1/8 to 6 n460                   | 1   | n460                                   | Bottom Floor 2nd Isle        |
| Yamaha 4D4600 Gas Generator                     | 1 1 | 4D4600                                 | Bottom floor 2nd Isle Back   |
| 36" floor Fans Qty 3 used fair                  | 4   |                                        | Bottom floor 2nd isle back   |
| Uline Hand Stretch wrapper Model h-88           | 3   | h-88                                   | Bottom Floor Ist Isle Back   |
| Programmable Logic Controller, plc guide switch | 1   |                                        | Electronic Room              |
| Ridgid Battery operated Sawsall                 | 1   | · · · · · ·                            | Electronic Room              |
| range survey operation surroun                  |     |                                        |                              |

| Portable Scanal Steam machine         1         Electronic Room           SPEPCIOLINE PEROM Eraser         1         LB           Streppel Glasfaser 110 vac         1         DB           Ridgid cordless rt angle drill, R52233         1         R82233         LB           Amp Grimper, 59824-1         1         39824-1         LB           Amp Grimper, 59824-1         LB         Amper, 59824-1         LB           Amp Grimper, 59824-1         LB         Second LB         LB           Litron Veam Competor asy kit dmc2         2         dmc2         LB           RYCOM 3111A Selective Voltmeter, QTY 2         3111A         LB         LB           Mitroyo Caliper 505-705         LB         S05-705         LB           Mitroyo Caliper 505-705         1         505-705         LB           AMP Crimper f026         1         5026         LB           AWP Crimper f026         1         MNDO JLB         LB           Petricotis Protock R013B         1         Petricotis Protock R013B         LB           Fuertonics protock R013B         1         PEtronics protock R013B         LB           Fuertonics protock R013B         1         FUER S7         LB           Fuertonics protock R013B                                                                                  | Ifem                                 | Qty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Part No.                                                                                                        | Location        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------|
| Streppel Glasfaser 110 vac         1         LB           Brekal Cordiess rt angle drill, R52233         1         R82233         LB           Ridgid cordless rt angle drill, R52233         1         R82233         LB           Amp Crimper, 59824-1         1         S9824-1         LB           Aris VEAM CRIMPER         1         LB         LB           Pyle National orimping tool kit         1         LB         LB           Editor Veam Connector assy kit dnc2         2         dnc2         LB           RYCOM 3111A Selective Voltmeter, QTY 2         2         3111A         LB           Mitoyo Callper 505-705         LB         MTOYO CALIPER 2904F         1         2904F           Dial Indicator, chicago dial         1         F0026         LB         B           AWP Crimper 8026         1         f0026         LB         B           Bundy HY TOOL MSND Crimper         MRND         LB         Flake Current Transformer 801600a         1         801600a         LB           Flake S2 Thermometer         1         Fluke S2         LB         Fluke S2         LB           Fluke S2 Thermometer         1         Fluke S2         LB         Sencore Capacitor inductor Analyzer lc76         1         L76                                                               | Portable Scunsi Steam machine        | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 | Electronic Room |
| Dewalt Cordless rt angle drill, kit, DW960         1         DW960         I.B           Amp Crimper, 59824-1         1         S82233         I.B           Arap Crimper, 59824-1         1         S9824-1         I.B           Ars VEAM CRIMPER         1         T.B         T.B           Ars VEAM CRIMPER         1         T.B         T.B           Ars Veam Connector assy kit dmc2         2         dmc2         I.B           RYCOM 3111A         Selector Otimeter, GTY 2         2         3111A         LB, TI29           Tektronik P5200 HIGH VOLTAGE Probe         1         P5200         T.B         Mitoy Caliper 505-705         T.B           MTOYO CALIPER 2904F         1         2004F         LB         DB                                                                                                                 | SPECTOLINE EPROM Eraser              | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| Ridgid ordless rt angle drill, R\$2233         1         R\$233         I.B           Amp Crimper, \$9824-1         1         59824-1         I.B           Arg VEAM, CRIMPER         1         I.B           Pyle National crimping tool kit         1         I.B           Litton Veam, Connector assy kit dmc2         2         dmc2         I.B           RYCOM 3111A, Selective Voltmeter, QTY 2         2         3111A         I.B           RYCOM 3111A, Selective Voltmeter, QTY 2         2         3111A         I.B           MICOYO CALIPER, 2904F         1         2904F         I.B           Dial Indicator, chicago dial         1         f0026         I.B           AMP Crimper 10026         1         f0026         I.B           MITOYO CALIPER, 2904F         1         2904F         I.B           AMP Crimper 10026         1         f0026         I.B           MAY SN-8031 Indicator         1         RS 58: 50310         I.B           Pluke Current Transformer 801600a         1         801600a         I.B           Fluke Current Transformer 801600a         1         B         1B           Fluke S2 Thermometer         1         Fluke S2         I.B           Fluke S2 Thermometer                                                                                          |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| Amp Crimper, 59824-1         I.B           AF8 VEAM CRIMPER         1         I.B           Pyle National crimping tool kit         1         I.B           Lifton Veam Connector assy kit dmc2         2         dmc2         I.B           RYCOM 311A Selective Volimeter, QTV 2         2         3111A         LB         I.B           RYCOM 311A Selective Volimeter, QTV 2         2         3111A         LB         I.B           Miroy Caliper 505-705         1         305-705         I.B         Miroy Caliper 505-705         I.B           Miroy Caliper 505-705         1         502-705         I.B         Miroy Caliper 503-705         I.B           Miroy Caliper 505-705         1         502-705         I.B         Miroy Caliper 503-705         I.B           Miroy Caliper 505-705         1         502-705         I.B         Miroy Caliper 503-705         I.B           Miroy Caliper 505-705         1         502-705         I.B         Miroy Caliper 503-705         I.B           Miroy Caliper 505-705         1         502-705         I.B         Miroy Caliper 503-705         I.B           Statistica         1         FELKE         Statistica         I.B         Statistica         I.B           Statistica<                                                          |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| AF8 VEAM CRIMPER         1         LIB           AF8 VEAM CRIMPER         1         I.IB           Litton Veam Connector assy kit dmc2         2         dmc2         I.IB           RYCOM 3111A Selective Voltrader, QTY 2         2         3111A         LIB, T129           Tektronik P5200 HIGH VOLTAGE Probe         1         P5200         LIB           Mitroy Caliper 505-705         1         505-705         LIB           Dial Indicator, chicago dial         1         204F         LIB           AWP Crimper f0026         1         f0026         LIB           AWP Crimper f0026         1         MRDD         LIB           Bumdy HYTOOL MSND Crimper         1         MSND         LIB           Fluk Current Transformer 801600a         1         801600a         LIB           Fluk S 2 Thermoneter         1         Fluk E 50/1300         LIB           Fluk S 2 Thermoneter         1         Fluk E 50/1300         LIB           Fluk E 77 MULTMETER         1         Fluk E 50/1300         LIB           Simpson Sound Meter System 88-2, type 2         1         88-2, type 2         LIB           NOYES MLP MULTIMETER         1         LIB         NOTES0         LIB           Orintri                                                                                           |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| Pyle National crimping tool kit         1         I.IB           Litton Veam Connector assy kit dmc2         2         dmc2         I.IB           RYCOM 3111A Selective Voltmeter, QTY 2         2         3111A         LIB, T129           Tektronix P5200 HIGH VOLTAGE Probe         1         P5200         LIB           Mftoy Caliper 505-705         1         305-705         LIB           Mftoy Caliper 505-705         1         2904F         LIB           Mftoy Caliper 505-705         1         2004F         LIB           Mftor, chicago dial         1         LIB         AMP           AWS PSI-8031 Indicator         1         PSI-8031         LIB           Bundy HYTOOL M8ND Crimper         1         M8ND         LIB           Fluke Statemometer         1         Fluke Statemometer         1                                                                                                  |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 59824-1                                                                                                         |                 |
| Lifton Veam Connector assy kit dmc2         2         dmc2         LIB           RYCOM 3111A Selective VolLTAGE Probe         1         P5200         LIB           Mitoyo Caliper 505-705         1         505-705         LIB           Mitoyo Caliper 505-705         1         2500         LIB           Dial Indicator, chicago dial         1         P5200         LIB           AMP Crimper 70026         1         f0026         LIB           Palke Current Transformer 801600a         1         80026         LIB           Palke Current Transformer 801600a         1         801600a         LIB           Palke Current Transformer 801600a         1         801600a         LIB           Palke Current Transformer 801600a         1         801600a         LIB           Palke Current Transformer 801600a         1         801100         LIB           Palke S2         LIB         FLUKE 850/1300         LIB           FLUKE 87 MULTIMETER         1         FLUKE 87         LIB           Sencore Capacitor inductor Analyzer 1676         1         1676         LIB           NOYES MIP MULTIMODE LIGHT PACK         1         LIB         Anriza Spectrum Analyzer mp 1550a         1           General Radio capacior decade Box<                                                        |                                      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| RYCOM 3111A Selective Voltmeter, QTY 2         2         3111A         LIB, T129           Tektronix PS200 HiGH VOLTAGE Probe         1         P5200         LIB           Mitroy Caliper 505-705         LIB         MITOYO CALIPER 2904F         1         2904F         LIB           Dial Indicator, chicago dial         1         1         2004F         LIB           AWS PSI- 8031 Indicator         1         PSI-8031 LIB         LIB           Bundy HYTOOL M8ND Crimper         1         MRND         LIB           Faktronics probe, P6113B         1         P6113B         LIB           Fuctronics probe, P6113B         1         P11k6 52         LIB           FUKE 85 01300 TBER OPTIC SOURCE         1         FLUKE 87         LIB           FUKE 87 MULTIMETER         1         FLUKE 87         LIB           Sencore Capacitor inductor Analyzer lc76         1         C16         LIB           Simpson Sound Meter System 886-2, type 2         1         886-2, type 2         LIB           Yokogawa 2786 Decade Resistance Box         1         LIB         LIB           Yokogawa 2786 Decade Resistance Box         1         LIB         Snap-on CS0100 Torque Wreach, 6005 ft         LIB           Snap-on Torque Wreach, 6005 ft         1                                       |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                 |
| Tektronix PS200 HIGH VOLTAGE Probe         1         P5200         LIB           Mitoyo Caliper S05-705         1         505-705         LIB           MiTOYO CALIPER 2904F         1         2904F         LIB           Dial Indicator, chicago dial         1         9026         LIB           AWP Crimper 70026         1         60026         LIB           Bumdy HYTOOL M8ND Crimper         1         801600a         LIB           Fluke Current Transformer 801600a         1         801600a         LIB           Fluke S01300 FIBER OPTIC SOURCE         1         Fluke S57         LIB           Fluke S101300 FIBER OPTIC SOURCE         1         Fluke S2         LIB           Fluke S2 Thermometer         1         Fluke S7         LIB           Sencore Capacitor inductor Analyzer lc76         1         lc76         LIB           Sencore Capacitor inductor Analyzer lc76         1         lc76         LIB           NOYES MLP MULTIMODE LIGHT PACK         1         antrizu Spectrum Analyzer mp 1550a         I           Sencore Capacitor inductor Analyzer lc76         1         lc676         LIB           OYES MLP MULTIMODE LIGHT PACK         1         antrizu Spectrum Analyzer mp 1550a         LIB           Sencore Capac                                               | Litton Veam Connector assy kit dmc2  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                 |
| Mitroy Caliper 505-705         1         505-705         LIB           MITOYO CALIPER 2904F         1         2904F         LIB           AMP Crimper f0026         1         f0026         LIB           AWS PSI-8031 Indicator         1         F026         LIB           Burndy HYTOOL M8ND Crimper         1         MRND         LIB           Fuke S031 Indicator         1         801600a         LIB           Fuxtronics probe, P6113B         1         P6113B         LIB           Fuxtronics probe, P6113B         1         P6113B         LIB           FUKE 850/1300 FIBER OPTIC SOURCE         1         FLUKE 850/1300         LIB           FUKE 77 MULTIMETER         1         FLUKE 87         LIB           Sencore Capacitor inductor Analyzer Ic76         1         Ic76         LIB           Simpson Sound Meter System 886-2, type 2         1         886-2, type 2         LIB           Amitzu Spectrum Analyzer mp 1550a         1         mp 1550a         LIB           Yokogawa 2786         LIB         MOYES ML, 2786         LIB           Proto Torque Wrench, 6006a 10-80 ft         1         60054         LIB           SNAP-ON TORQUE QCIRS0         1         QCIRS0         LIB                                                                                          |                                      | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| MITOYO CALIPER 2904F         1         2904F         LIB           Dial Indicator, chicago dial         1         IIB         IIB           AWP Crimper 70026         1         f0026         IIB           Bundy HYTOOL MSND Crimper         1         MSND         IIB           Fluke Current Transformer 801600a         1         801600a         LIB           Fluke Sof1300 FIBER OPTIC SOURCE         1         FLUKE 850/1300         LIB           Fluke Sof1300 FIBER OPTIC SOURCE         1         FLUKE 857         LIB           Fluke Sof MULTIMETER         1         FLUKE 877         LIB           Sencore Capacitor inductor Analyzer 1676         1         1676         IIB           Simpson Sound Meter System 886-2, type 2         1         886-2, type 2         LIB           NOYES MLP MULTIMETERS         1         mp 1550a         IIB         IIB           Yokogawa 2786 Decade Resistance Box         1         UB         Yokogawa 2786         IIB           Yokogawa 2786 Decade Resistance Box         1         Yokogawa 2786         IIB           SNAP-ON TORQUE WRENCH, QOIES0         1         QOIRS0         IIB           SNAP-ON TORQUE WRENCH, QOIRS0         1         QOIRS0         IIB           SN                                                                 |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| Dial Indicator, chicago dial         1         LIB           AMP Crimper f0026         1         f0026         LIB           AWS PSI- 8031 Indicator         1         PSI- 8031         LIB           Burndy HYTOOL M8ND Crimper         1         M8ND         LIB           Fluke Current Transformer 801600a         1         801600a         LIB           Fluke S2         LIB         FLUKE 850/1300         LIB           FLUKE 87 MULTIMETER         1         FLUKE 87         LIB           FLUKE 87 MULTIMETERS         3         FLUKE 87         LIB           Sencore Capacitor inductor Analyzer lc76         1         Cr67         LIB           Simpson Sound Meter System 886-2, type 2         1         886-2, type 2         LIB           Anritzu Spectrum Analyzer mp 1550a         1         mp 1550a         LIB           General Radio capacitor decade Box         1         Yokogawa 2786         LIB           Yokogawa 2786 Decade Resistance Box         1         Yokogawa 2786         LIB           SNAP-ON TORQUE Wrench, 60063 10-80 ft         1         6003 FB         LIB           SNAP-ON TORQUE QUESO         1         QCIRSO         LIB           SNAP-ON TORQUE WRENCH, QD180         1         QCIRSO                                                                  |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| AMP Crimper f0026     1     f0026     LIB       AWS PSI- 8031 Indicator     1     PSI- 8031     LIB       Burndy HYTOOL M&ND Crimper     1     M&ND ILB       Fluke Current Transformer 801600a     1     801600a     LIB       Factronics probe, P6113B     1     P6113B     LIB       FLUKE 850/1300 FIBER OPTIC SOURCE     1     FLUKE 87 MULTIMETER     1       FLUKE 87 MULTIMETER     1     FLUKE 87 MULTIMETER     1       FLUKE 77 MULTIMETER     3     FLUKE 87 MULTIMETER     1       Sencore Capacitor inductor Analyzer le76     1     c.76     LIB       Simpson Sound Meter System 886-2, type 2     1     886-2, type 2     LIB       NOYES MLP MULTIMODE LIGHT PACK     1     mp 1550a     LIB       Oreareal Radio capacitor decade Box     1     mp 1550a     LIB       Proto Torque Wreach, 6003 PB 10-100 ft     6003 PB     ELB     DIB       SNAP-ON TORQUE QCIRS0     1     QCIRS0     LIB       SNAP-ON TORQUE QCIRS0     1     QTIRS0     LIB       SNAP-ON TORQUE WRENCH, QD1R50     2     QTIR50     LIB       SNAP-ON TORQUE WRENCH, QC1200     1     QCIR50     LIB       SNAP-ON TORQUE WRENCH, QC1200     1     QCIR50     LIB       SNAP-ON TORQUE WRENCH, QC1200 <td></td> <td>1</td> <td>2904F</td> <td></td>                                                                            |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2904F                                                                                                           |                 |
| AWS PSI- 8031 Indicator         1         PSI- 8031         LIB           Bunndy HYTOOL M8ND Crimper         1         M8ND         LIB           Fluke Current Transformer 801600a         1         801600a         LIB           Textronics probe, P6113B         1         P61133B         LIB           Fluke S2         Thermometer         1         Fluke S2         LIB           Fluke S2         Thermometer         1         Fluke S2         LIB           Fluke S7         TLB         Fluke S7         LIB           Sencore Capacitor inductor Analyzer Lc76         1         Lc76         LIB           Simpson Sound Meter System 886-2, type 2         1         886-2, type 2         LIB           Amriza Spectrum Analyzer Ip1550a         1         mp1550a         LIB           Yokogawa 2786 Decade Resistance Box         1         Yokogawa 2786         LIB           Yokogawa 2786 Decade Resistance Box         1         Yokogawa 2786         LIB           Snap-on flex head torque Wrench, 6003 PB 10-100 ft         6003 PB         LIB           SNAP-ON TORQUE QCIRS0         1         QCIRS0         LIB           SNAP-ON TORQUE WRENCH, QC1200         1         QCIRS0         LIB           SNAP-ON TORQUE WRENCH, QC                                                        |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| Jumpdy HYTOOL M8ND Crimper1M8NDLBFluke Current Transformer 801600a1801600aLIBFluke Current Transformer 801600a1P6113BLIBFLVKE 850/1300 FIBER OPTIC SOURCE1FLUKE 850/1300LIBFLUKE 857 MULTIMETER1FLUKE 87LIBFLUKE 77 MULTIMETER1FLUKE 87LIBSencore Capacitor inductor Analyzer lc761lc76LIBSimpson Sound Meter System 886-2, type 21BLIBNOYES MLP MULTIMODE LIGHT PACK1LIBLIBYokogawa 2786 Decade Resistance Box1mp 1550aLIBYokogawa 2786 Decade Resistance Box1Yokogawa 2786LIBProto Torque Wrench, 6003 PB 10-100 ft16005aLIBSnap-on Rev Lead torque Wrench QCIRS01QCIRS0LIBSNAP-ON TORQUE QCIRS01QCIRS0LIBSNAP-ON TORQUE QUENCO2QTIR50LIBSNAP-ON TORQUE WRENCH, QC12001QCIRS0LIBSNAP-ON TORQUE WRENCH, QC12001QCIRS0LIBSnap-on QCSR1000 Torque Wrench1QCSR1000LIBSnap-on QCSR1000 Torque Wrench1QCSR1000LIBSnap-on Corque Wrench Gol2A1Menters 600LIBSNAP-ON TORQUE WRENCH, QC12001QCIRS0LIBSnap-ON TORQUE WRENCH QC12001Menters 600LIBSnap-ON TORQUE WRENCH GOl2A1GOl2ALIBSnap-ON TORQUE WRENCH GOL2A1Mechroom                                                                                                                                                                                                                                                                                                          |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| Huke Current Transformer 801600a         1         801600a         LIB           Textronics probe, P6113B         1         P6113B         LIB           FLUKE 850/1300         EBR         1         FLUKE 850/1300         LIB           FLUKE 850/1300         FLUKE 850/1300         LIB         1         FLUKE 87/14         LIB           FLUKE 77         TUB         FLUKE 77         LIB         1         FLUKE 77         LIB           Sencore Capacitor inductor Analyzer lc76         1         lc76         LIB         1         B           Simpson Sound Meter System 886-2, type 2         1         886-2, type 2         LIB         1         B           Anritzu Spectrum Analyzer mp 1550a         1         mp 1550a         LIB         1         B           Yokogawa 2786         Decade Resistance Box         1         Yokogawa 2786         LIB         B           Yokogawa 2786         Decade Resistance Box         1         Yokogawa 2786         LIB         B           Snap-on flex head torque Wrench, 6005 10         1         C0178         LIB         B           SNAP-ON TORQUE QCIRS0         1         QC1R50         LIB         S         B         S         B         B         B                                                                                   |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| Textronics probe, P6113B         1         P6113B         LIB           FLUKE 850/1300         FIBRE 52         LIB           FLUKE 87         MULTIMETER         1         FLUKE 87         LIB           FLUKE 77         MULTIMETER         1         FLUKE 77         LIB           Sencore Capacitor inductor Analyzer lc76         1         lc76         LIB           Simpson Sound Meter System 886-2, type 2         1         886-2, type 2         LIB           NoYES MLP MULTIMODE LIGHT PACK         1         LIB         LIB           Anritzu Spectrum Analyzer mp 1550a         1         mp 1550a         LIB           Proto Torque Wrench, 6003 PB 10-100 ft         1         6003 PB         LIB           Proto Torque Wrench, 6003 PB 10-100 ft         1         6003 PB         LIB           SNAP-ON TORQUE QUENCE         1         QCIRS0         LIB           SNAP-ON TORQUE QUENCE         1         QCIRS0         LIB           SNAP-ON TORQUE WRENCH, QDIRS0         1         QCIRS0         LIB           SNAP-ON TORQUE WRENCH, QCI200         1         QCIRS0         LIB           SNAP-ON TORQUE WRENCH, QCI200         1         QCIRS0         LIB           SNAP-ON TORQUE WRENCH, QCI200         1                                                                         |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| FLUKE \$50/1300 FIBER OPTIC SOURCE         1         FLUKE \$50/1300         LIB           Fluke 52 Thermometer         1         Fluke 52         LIB           FLUKE 77 MULTIMETER         1         FLUKE 87         LIB           Sencore Capacitor inductor Analyzer 1c76         1         Ic76         LIB           Simpson Sound Meter System 886-2, type 2         1         886-2, type 2         LIB           NOYES MLP MULTIMODE LIGHT PACK         1         mp 1550a         LIB           Anritzu Spectrum Analyzer mp 1550a         1         mp 1550a         LIB           Yokogawa 2786 Decade Resistance Box         1         yokogawa 2786         LIB           Proto Torque Wrench, 6006a 10-80 ft         1         6003 PB         LIB           Snap-on flex head torque Wrench TQFR250         1         TQFR250         LIB           SNAP-ON TORQUE QCIRS0         1         QCIR50         LIB           SNAP-ON TORQUE QCIRS0         1         QDIR50         LIB           SNAP-ON TORQUE QUIRS0         1         QDIR50         LIB           SNAP-ON TORQUE WRENCH, QDIR50         1         QDIR50         LIB           SNAP-ON TORQUE WRENCH, QCI200         1         QCI200         LIB           SRap-on QCSR1000 Torque Wrench </td <td></td> <td>1</td> <td></td> <td></td> |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| Fluke 52LIBFLUKE 37MULTIMETER1FluKE 77LIBFLUKE 77MULTIMETERS3FLUKE 77LIBSencore Capacitor inductor Analyzer 1c7611c76LIBSimpson Sound Meter System 886-2, type 21886-2, type 2LIBNOYES MLP MULTIMODE LIGHT PACK1LIBAnritzu Spectrum Analyzer mp 1550a1mp 1550aLIBGeneral Radio capacitor decade Box1Yokogawa 2786LIBProto Torque Wrench, 6006a 10-80 ft16006aLIBProto Torque Wrench, 6007 PB 10-100 ft16003 PBLIBSnap-on Itek head torque Wrench TQFR2501TQFR250LIBSNAP-ON TORQUE QCIRS01QCIR50LIBSNAP-ON TORQUE QCIRS01QDIR50LIBSNAP-ON TORQUE QCIRS01QDIR50LIBSNAP-ON TORQUE WRENCH, QDIS01QDIR50LIBSNAP-ON TORQUE WRENCH, QCI2001QCI200LIBSNAP-ON TORQUE WRENCH, QCI2001QCSR1000LIBSnap-on QCSR1000 Torque Wrench1QCSR1000LIBSnap-on QCSR1000 Torque Wrench1McCHROOM CABBird, Digital Power Meter, model 5000ex1S000exMECHROOM CABBird, Digital Power Meter, model 5000ex1GCSR1000MECHROOM CABBird, Digital Power Meter, model 5000ex1GCR600AMRA3CR600A Torque WRENCH1QCR600AMRA3Cordeour Harder Hated Cart 2 x 42PDS Room                                                                                                                                                                                                                                                                                              |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| LUKE 87IIBFLUKE 87MULTIMETER1FLUKE 87IIBFLUKE 77MULTIMETERS3FLUKE 77IIBSencore Capacitor inductor Analyzer le761lc76IIBSimpson Sound Meter System 886-2, type 21886-2, type 2IIBNOYES MLP MULTIMODE LIGHT PACK1IIBAmritzu Spectrum Analyzer mp 1550a1mp 1550aIIBGeneral Radio capacitor decade Box1Yokogawa 2786IIBProto Torque Wrench, 6006a 10-80 ft16006aIIBProto Torque Wrench, 6003 PB 10-100 ft16003 PBIIBSnap-on flex head torque Wrench TQFR2501TQFR250IIBSNAP-ON TORQUE QCIR501QCIR50IIBSNAP-ON TORQUE QCIR501QCIR50IIBSNAP-ON TORQUE QCIR501QDIR50IIBSNAP-ON TORQUE WRENCH, QDIR501QDIR50IIBSNAP-ON TORQUE WRENCH, QCI2001QCI200IIBPROTO TORQUE WRENCH, QCI2001QCSR1000IIBSnap-on QCSR1000 Torque Wrench1QCSR1000IIBShap-on QCSR1000 Torque Wrench1McCHROOM CABSkidmore Wilham Calibration Tool1McehroomKar Products Hardware storage Cabinets1McehroomBird, Digital Power Meter, model 5000ex15000exMECHROOM CABBattery tester 6/12/ volt1McEHROOM CABGuidewheel Assy Fixture, 6D55460G011MCEHROOM CABBattery tester 6/12/ volt<                                                                                                                                                                                                                                                                                |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| FLUKE 77LIBSencore Capacitor inductor Analyzer le761lc76LIBSencore Capacitor inductor Analyzer le761lc76LIBNOYES MLP MULTIMODE LIGHT PACK1LIBLIBAmitzu Spectrum Analyzer mp 1550a1mp 1550aLIBAnnitzu Spectrum Analyzer mp 1550a1mp 1550aLIBGeneral Radio capacitor decade Box1LIBYokogawa 2786 Decade Resistance Box1Yokogawa 2786LIBProto Torque Wrench, 6003 PB 10-100 ft16006aLIBSnap-on flex head torque Wrench TQFR2501TQFR250LIBSNAP-ON TORQUE QCIRS01QCIR50LIBSNAP-ON TORQUE QTIRS02QTIR50LIBSNAP-ON TORQUE WRENCH, QDIR501QCIR50LIBSNAP-ON TORQUE WRENCH, QDIR501QCIR00LIBSNAP-ON TORQUE WRENCH, QDIR501QCIR00LIBSNAP-ON TORQUE WRENCH, QC12001QCSR1000LIBSnAP-ON TORQUE WRENCH, QCI2001WR 8000LIBSnap-on QCSR1000 Torque Wrench1WR 8000LIBSnap-on QCSR1000 Torque Wrench1MechroomStar Products Hardware storage Cabinets1MechroomBird, Digital Power Meter, model 5000ex15000exMECHROOM CABBattery test of 1/2 volt1MECHROOM FLOORQC28250 TORQUE WRENCH1QC38250MRA3Long QCR250 TORQUE WRENCH1QCR600AQC3250 TORQUE WRENCH1                                                                                                                                                                                                                                                                                         |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| Sencore Capacitor inductor Analyzer lc761lc76LIBSimpson Sound Meter System 886-2, type 21 $886-2$ , type 2LIBNOYES MLP MULTIMODE LIGHT PACK1LIBAmritzu Spectrum Analyzer mp 1550a1mp 1550aLIBGeneral Radio capacitor decade Box1LIBYokogawa 2786 Decade Resistance Box1Yokogawa 2786LIBProto Torque Wrench, 6005a 10-80 ft16005aLIBproto Torque Wrench, 6005 PB 10-100 ft16003 PBLIBSnap-on flex head torque Wrench TQFR2501TQFR250LIBSNAP-ON TORQUE QC1R501QC1R50LIBSNAP-ON TORQUE QC1R501QC1R50LIBSNAP-ON TORQUE WRENCH, QD1R501QD1R50LIBSNAP-ON TORQUE WRENCH, QC12001QC1200LIBSNAP-ON TORQUE WRENCH, QC12001QC1200LIBSNAP-ON TORQUE WRENCH, QC12001QC1200LIBSnap-on QCSR1000 Torque Wrench1QC5R1000LIBSRAP-ON TORQUE WRENCH 6062A16062ALIBSnap-on QCSR1000 Torque Wrench1QC5R1000LIBSidmore Wilham Calibration Tool1Minitest 600LIBSidmore Wilham Calibration Tool1MechroonmKar Products Hardware storage Cabinets1MechroonmKar Products Hardware storage Cabinets1MechroonmBattery tester 6/12/ volt1GD25460G01MECHROOM CABGuidewheel Assy Fixture, 6D55460G011 <td></td> <td>1</td> <td></td> <td></td>                                                                                                                                                                                                              |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| Simpson Sound Meter System 886-2, type 21886-2, type 2LIBNOYES MLP MULTIMODE LIGHT PACK1IIBAnritzu Spectrum Analyzer np 1550a1mp 1550aLIBGeneral Radio capacitor decade Box1Yokogawa 2786ILBYokogawa 2786 Decade Resistance Box1Yokogawa 2786ILBProto Torque Wrench, 6005a 10-80 ft16005aILBProto Torque Wrench, 6003 PB 10-100 ft16005aILBSnap-on flex head torque Wrench TQFR2501TQFR250ILBMONARCH RPM GUN1ULBSNAP-ON TORQUE QCIR50ISNAP-ON TORQUE QCIR501QC1R50LIBSNAP-ON TORQUE WRENCH, QD1R502QTIR50LIBSNAP-ON TORQUE WRENCH, QC12001QC1200LIBSNAP-ON TORQUE WRENCH, QC12001QC1200LIBPROTO TORQUE WRENCH, QC12001QC1200LIBSNAP-ON TORQUE WRENCH, QC12001WR 8000LIBSnap-on CSR1000 Torque Wrench1QC18000LIBElectro Physik Thickness Gauge, Minitest 6001Minitest 600LIBSkidmore Wilham Calibration Tool1MechroonmKar Products Hardware storage Cabinets1Skidmore Wilham Calibration Tool1GC800AMRA3QCR3250MRA3Lorg QCR250 TORQUE WRENCH1QCR600AMRA3QCR300ACord QCR250 TORQUE WRENCH1QCR600AMRA3QCR600ALing QCR250 TORQUE WRENCH1QCR600AMRA3                                                                                                                                                                                                                                                                            |                                      | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| NOYES MLP MULTIMODE LIGHT PACK1IIBAnritzu Spectrum Analyzer mp 1550a1mp 1550aI.BGeneral Radio capacitor decade Box1IIBYokogawa 2786 Decade Resistance Box1Yokogawa 2786IIBProto Torque Wrench, 6006a 10-80 ft16006aIIBproto Torque Wrench, 6003 PB 10-100 ft16003 PBIIBSnap-on Ide head torque Wrench TQFR2501FQFR250IIBMONARCH RPM GUN1IIBIIBSNAP-ON TORQUE QCIRS01QCIR50IIBSNAP-ON TORQUE QTIR502QTIR50IIBSNAP-ON TORQUE WRENCH, QDIR501QDIR50IIBSNAP-ON TORQUE WRENCH, QC12001QC1200IIBSNAP-ON TORQUE WRENCH 6062A16062AIIBSnap-on QCSR1000 Torque Wrench1QCSR1000IIBSnap-on QCSR1000 Torque Wrench1McChroomI're Cage1Loading DockSkidmore Wilham Calibration Tool1MechroomKar Products Hardware storage Cabinets1MeCHROOM CABBird, Digital Power Meter, model 5000ex15000exMECHROOM CABGuidewheel Assy Fixture, 6D55460G011GC3R250MRA3Long QCR250 TORQUE WRENCH1QCR600AMRA3QCR600A Torque Wrench1MCC4QCR200 TORQUE WRENCH1PDS RoomIord Looking Gun1ID456DPDS RoomIord Calking Gun1ID456DPDS RoomIord Calking                                                                                                                                                                                                                                                                                                           |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | i and i a |                 |
| Anritzu Spectrum Analyzer mp 1550a1mp 1550aLIBGeneral Radio capacitor decade Box1IIBYokogawa 2786 Decade Resistance Box1Yokogawa 2786Proto Torque Wrench, 6006 al 0-80 ft16006aIIB5006aIIBproto Torque Wrench, 6003 PB 10-100 ft16003 PBIIBSnap-on flex head torque Wrench TQFR2501TQFR250MONARCH RPM GUN1IIBSNAP-ON TORQUE QCIR501QC1R50IIBSNAP-ON TORQUE QTIR502QTIR50IIBSNAP-ON TORQUE WRENCH, QD1R501QC1200IIBSNAP-ON TORQUE WRENCH, QC12001QC1200IIBPROTO TORQUE WRENCH, QC12001QC1200IIBSnap-On TORQUE WRENCH, QC12001QCSR1000IIBSnap-on QCS1100 Torque Wrench1QCSR1000IIBSnap-on QCS1100 Torque Wrench1QCSR1000IIBSiddmore Wilham Calibration Tool1MechroomKar Products Hardware storage CabinetsSkidmore Wilham Calibration Tool1MechroOM CABBattery tester 6/12/ volt1GD55460G01MECHROOM GABGuidewheel Assy Fixture, 6D55460G011GD55460G01MECHROOM FLOORQC3R250 TORQUE WRENCH1QCR600AMRA3Long QCR250 TORQUE WRENCH1QCR600AMRA3Degton Wetchry Guum model # 1D456D1ID456DPDS RoomIof t Ladder fiberglass Model # FS15101FS1510PDS RoomIof t La                                                                                                                                                                                                                                                                      |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 886-2, type 2                                                                                                   |                 |
| General Radio capacitor decade Box1IIBYokogawa 2786 Decade Resistance Box1Yokogawa 2786 LIBProto Torque Wrench, 6006a 10-80 ft16006aIIBproto Torque Wrench, 6003 PB 10-100 ft16003 PBIIBSnap-on flex head torque Wrench TQFR2501TQFR250IIBMONARCH RPM GUN1IIBSNAP-ON TORQUE QC1R501QC1R50IIBSNAP-ON TORQUE QC1R502QT1R50IIBSNAP-ON TORQUE WRENCH, QD1R501QD1R50IIBSNAP-ON TORQUE WRENCH, QC12001QC1200IIBSNAP-ON TORQUE WRENCH, QC12001QC1200IIBSNAP-ON TORQUE WRENCH 6062A16062AIIBGRAPHTEC Thermal array Chart Recorder, WR1WR 8000IIBSnap-on QCSR1000 Torque Wrench1QC5R1000IIBElectro Physik Thickness Gauge, Minitest 6001Minitest 600IIBSkidmore Wilham Calibration Tool1MechroomKar Products Hardware storage Cabinets1MechroomBird, Digital Power Meter, model 5000ex15000exMECHROOM CABBattery tester 6/12/ volt1QCR600AMRA3QCR600A Torque Wrench1QCR600AMRA3QCR600A Torque Wrench1PDS RoomBlack Rolling Cart, 3 shelf Bretford1PDS Room10 ft Ladder fiberglass Model # FS15101FS1510PDS Room10 ft Ladder fiberglass Idder1StF1307                                                                                                                                                                                                                                                                                |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| Yokogawa 2786 Decade Resistance Box1Yokogawa 2786LIBProto Torque Wrench, 6006a 10-80 ft16003 PBLIBproto Torque Wrench, 6003 PB 10-100 ft16003 PBLIBSnap-on flex head torque Wrench TQFR2501TQFR250LIBMONARCH RPM GUN1IIBIIBSNAP-ON TORQUE QC1R502QT1R50LIBSNAP-ON TORQUE QT1R502QT1R50LIBSNAP-ON TORQUE WRENCH, QD1R501QD1R50LIBSNAP-ON TORQUE WRENCH, QC12001QC1200LIBSNAP-ON TORQUE WRENCH, QC12001QC1200LIBSnap-on QCSR1000 Torque Wrench1QC5R1000LIBSnap-on QCSR1000 Torque Wrench1QC5R1000LIBElectro Physik Thickness Gauge, Minitest 6001Minitest 600LIBSkidmore Wilham Calibration Tool1McchroomKar Products Hardware storage Cabinets1MECHROOM CABBird, Digital Power Meter, model 5000ex15000exMECHROOM CABBattery tester 6/12/ volt1GC3R250MRA3CGR600A Torque Wrench1QC3R250MRA3Long QCR250 TORQUE WRENCH1QC3R250MRA3Long QCR250 TORQUE WRENCH1MRA3pneumatic Calking Gun1MRA3pneumatic Calking Gun1PDS RoomBlack Rolling Cart, 3 shelf Bretford1PDS Room10 ft Ladder fiberglass Model # FS15101FS15108 FT fiberglass Iadder1<                                                                                                                                                                                                                                                                                    |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | mp 1550a                                                                                                        |                 |
| ProtoTorque Wrench, 6006a10-800 ft160066aLIBprotoTorque Wrench, 6003 PB10-100 ft16003 PBLIBSnap-on flex head torque Wrench TQFR2501TQFR250LIBSNAP-ON TORQUE QC1R501QC1R50LIBSNAP-ON TORQUE QC1R501QC1R50LIBSNAP-ON TORQUE WRENCH, QD1R502QT1R50LIBSNAP-ON TORQUE WRENCH, QD1R501QD1R50LIBSNAP-ON TORQUE WRENCH, QC12001QC1200LIBSNAP-ON TORQUE WRENCH 6062A16062ALIBGRAPHTEC Thermal array Chart Recorder, WR1WR 8000LIBSnap-on QCSR1000 Torque Wrench1QC5R1000LIBElectro Physik Thickness Gauge, Minitest 6001Minitest 600LIBTire Cage1Loading DockSkidmore Wilham Calibration Tool1Kar Products Hardware storage Cabinets1MechroomMecHROOM CABBattery tester 6/12/ volt1GD55460G01MECHROOM FLOORQC3R250 TORQUE WRENCH1QCR600AMRA3Long QCR250 TORQUE WRENCH1QCR600AMRA3Long QCR250 TORQUE WRENCH1PDS RoomBlack Rolling Cart, 3 shelf Bretford1PDS RoomBlack Rolling Cart, 3 shelf Bretford1PDS RoomB attery date floeglass Model # FIS15101FS1510PDS RoomB The galass Idder1PDS RoomSF1307                                                                                                                                                                                                                                                                                                                                |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| proto Torque Wrench, 6003 PB 10-100 ft16003 PBLJBSnap-on flex head torque Wrench TQFR2501TQFR250LIBMONARCH RPM GUN1LJBSNAP-ON TORQUE QC1R501QC1R50LIBSNAP-ON TORQUE QT1R502QT1R50LIBSNAP-ON TORQUE WRENCH, QD1R501QD1R50LIBSNAP-ON TORQUE WRENCH, QC12001QC1200LIBSNAP-ON TORQUE WRENCH, QC12001GC62ALIBSNAP-ON TORQUE WRENCH, GA62A16062ALIBSnap-on QCSR1000 Torque Wrench1QC5R1000LIBSnap-on QCSR1000 Torque Wrench1QC5R1000LIBSiddmore Wilham Calibration Tool1MechroomKar Products Hardware storage Cabinets1S000exMECHROOM CABBattery tester 6/12/ volt16D55460G01MECHROOM CABGuidewheel Assy Fixture, 6D55460G011GC3R250MRA3Long QCR250 TORQUE WRENCH1QC3R250MRA3Long QCR250 TORQUE WRENCH1MRC4Dayton Wet/dry Vacuum model # 1D456D1ID456DPDS Room1ID456DPDS RoomBlack Rolling Cart, 3 shelf Bretford1FS1510PDS Room8 FT fiberglass ladder1PDS Room, by spools8 System Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                 |
| Snap-on flex head torque Wrench TQFR2501TQFR250LJBMONARCH RPM GUN1LIBSNAP-ON TORQUE QC1R501QC1R50LIBSNAP-ON TORQUE QT1R502QT1R50LIBSNAP-ON TORQUE WRENCH, QD1R501QD1R50LIBSNAP-ON TORQUE WRENCH, QC12001QC1200LIBPROTO TORQUE WRENCH 6062A16062ALIBGRAPHTEC Thermal array Chart Recorder, WR1WR 8000LIBSnap-on QCSR1000 Torque Wrench1QCSR1000IJBElectro Physik Thickness Gauge, Minitest 6001Minitest 600LIBTire Cage1Loading DockSkidmore Wilham Calibration Tool1MechroomKar Products Hardware storage Cabinets1MECHROOM CABBattery tester 6/12/ volt16D55460G01MECHROOM CABGuidewheel Assy Fixture, 6D55460G0116D55460G01MECHROOM FLOORQC3R250 TORQUE WRENCH1QCR600AMRA3Long QCR250 TORQUE WRENCH1MRC4Dayton Wet/dry Vacuum model # 1D456D11D456DPDS Room1PDS RoomBlack Rolling Cart, 3 shelf Bretford1FS1510B F fiberglass Iadder1PDS Room, by spoolsSystem Torayings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| MONARCH RPM GUN1LIBSNAP-ON TORQUE QCIR501QC1R50LIBSNAP-ON TORQUE QTIR502QT1R50LIBSNAP-ON TORQUE WRENCH, QD1R501QD1R50LIBSNAP-ON TORQUE WRENCH, QC12001QC1200LIBSNAP-ON TORQUE WRENCH, QC12001QC1200LIBGRAPHTEC Thermal array Chart Recorder, WR1WR 8000LIBGRAPHTEC Thermal array Chart Recorder, WR1WR 8000LIBSnap-on QC5R1000 Torque Wrench1QC5R1000LIBElectro Physik Thickness Gauge, Minitest 6001Minitest 600LIBSkidmore Wilham Calibration Tool1Loading DockSkidmore Wilham Calibration Tool1MechroomKar Products Hardware storage Cabinets1MecHROOM CABBattery tester 6/12/ volt16D55460G01MECHROOM CABGuidewheel Assy Fixture, 6D55460G0116D55460G01MECHROOM FLOORQC3R250 TORQUE WRENCH1QCR600AMRA3Long QCR250 TORQUE WRENCH1MRC4Dayton Wet/dry Vacuum model # 1D456D11D456DPDS RoomBlack Rolling Cart, 3 shelf Bretford1PDS RoomBlack Rolling Cart, 3 shelf Bretford1Pds RoomS FT fiberglass Model # FS15101FS1510PDS RoomS FT fiberglass Iadeer1Pds RoomGreen flat Hand Cart 2 x 42PDS Room, by spoolsSystem Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                           |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| SNAP-ON TORQUE QC1R501QC1R50LIBSNAP-ON TORQUE QT1R502QT1R50LIBSNAP-ON TORQUE WRENCH, QD1R501QD1R50LIBSNAP-ON TORQUE WRENCH, QC12001QC1200LIBPROTO TORQUE WRENCH 6062A16062ALIBGRAPHTEC Thermal array Chart Recorder, WR1WR 8000LIBSnap-on QC5R1000 Torque Wrench1QC5R1000LIBElectro Physik Thickness Gauge, Minitest 6001Minitest 600LIBSkidmore Wilham Calibration Tool1Loading DockSkidmore Wilham Calibration Tool1MechroomKar Products Hardware storage Cabinets1MechroomBird, Digital Power Meter, model 5000ex15000exMECHROOM CABBattery tester 6/12/ volt16D55460G01MECHROOM FLOORQC3R250 TORQUE WRENCH1QCR600AMRA3Long QCR250 TORQUE WRENCH1MRA3pneumatic Calking Gun1MRA3pneumatic Calking Gun1PDS RoomBlack Rolling Cart, 3 shelf Bretford1FS1510PDS Room8 FT fiberglass Model # FS15101FS1510PDS Room8 FT fiberglass ladder1Pds RoomGreen flat Hand Cart 2 x 4System Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TQFR250                                                                                                         |                 |
| SNAP-ON TORQUE QT1R502QT1R50LIBSNAP-ON TORQUE WRENCH, QD1R501QD1R50LIBSNAP-ON TORQUE WRENCH, QC12001QC1200LIBPROTO TORQUE WRENCH 6062A16062ALIBGRAPHTEC Thermal array Chart Recorder, WR1WR 8000LIBSnap-on QC5R1000 Torque Wrench1QC5R1000LIBElectro Physik Thickness Gauge, Minitest 6001Minitest 600LIBTire Cage1Loading DockSkidmore Wilham Calibration Tool1MechroomKar Products Hardware storage Cabinets1MechroomBird, Digital Power Meter, model 5000ex15000exMECHROOM CABBattery tester 6/12/ volt1MECHROOM CABGuidewheel Assy Fixture, 6D55460G011GC58250MRA3Long QCR250 TORQUE WRENCH1QC3R250MRA3Long QCR250 TORQUE WRENCH1MRC4MRA3pneumatic Calking Gun1MRC4MRA3payton Wet/dry Vacuum model # 1D456D11D456DPDS RoomBlack Rolling Cart, 3 shelf Bretford1FS1510PDS Room8 FT fiberglass Indeer1Pds RoomSF13078 FT fiberglass Indeer1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| SNAP-ON TORQUE WRENCH, QD1R501QD1R50LIBSNAP-ON TORQUE WRENCH, QC12001QC1200LIBPROTO TORQUE WRENCH 6062A16062ALIBGRAPHTEC Thermal array Chart Recorder, WR1WR 8000LIBSnap-on QC5R1000 Torque Wrench1QC5R1000LIBElectro Physik Thickness Gauge, Minitest 6001Minitest 600LIBTire Cage1Loading DockSkidmore Wilham Calibration Tool1MechroomBird, Digital Power Meter, model 5000ex15000exMECHROOM CABBattery tester 6/12/ volt1MECHROOM CABGuidewheel Assy Fixture, 6D55460G0116D55460G01MECHROOM FLOORQC3R250 TORQUE WRENCH1QCR600AMRA3Long QCR250 TORQUE WRENCH1MRA3pneumatic Calking Gun1MRA3pneumatic Calking Gun11MRC4Dayton Wet/dry Vacuum model # 1D456D11D456DPDS RoomBlack Rolling Cart, 3 shelf Bretford1PDS Room8 FT fiberglass Model # FS15108 FT fiberglass Indder1PDS Room900s8 FT fiberglass Indder1PDS Room900s8 FT fiberglass Indder1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| SNAP-ON TORQUE WRENCH, QC12001QC1200LIBPROTO TORQUE WRENCH 6062A16062ALIBGRAPHTEC Thermal array Chart Recorder, WR1WR 8000LIBSnap-on QCSR1000 Torque Wrench1QCSR1000LIBElectro Physik Thickness Gauge, Minitest 6001Minitest 600LIBTire Cage1Loading DockSkidmore Wilham Calibration Tool1MechroomKar Products Hardware storage Cabinets1MechroomBird, Digital Power Meter, model 5000ex15000exMECHROOM CABBattery tester 6/12/ volt16D55460G01MECHROOM CABGuidewheel Assy Fixture, 6D55460G0116D55460G01MECHROOM FLOORQC3R250 TORQUE WRENCH1QCR600AMRA3Long QCR250 TORQUE WRENCH1MRA3pneumatic Calking Gun1MRC4Dayton Wet/dry Vacuum model # 1D456D11D456DBlack Rolling Cart, 3 shelf Bretford1FS151010 ft Ladder fiberglass Model # FS15101FS1510PDS Room8 FT fiberglass ladder1PDS Room6 reen flat Hand Cart 2 x 42PDS Room, by spoolsSystem Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                 |
| PROTO TORQUE WRENCH 6062A16062ALIBGRAPHTEC Thermal array Chart Recorder, WR1WR 8000LIBSnap-on QC5R1000 Torque Wrench1QC5R1000LIBElectro Physik Thickness Gauge, Minitest 6001Minitest 600LIBTire Cage1Loading DockSkidmore Wilham Calibration Tool1MechroomKar Products Hardware storage Cabinets1mechroomBird, Digital Power Meter, model 5000ex15000exMECHROOM CABBattery tester 6/12/ volt1GD55460G01MECHROOM FLOORQC3R250 TORQUE WRENCH1QC3R250MRA3Long QCR250 TORQUE WRENCH1QCR600AMRA3pneumatic Calking Gun1MRC4MRA3payton Wet/dry Vacuum model # 1D456D11D456DPDS RoomBlack Rolling Cart, 3 shelf Bretford1FS1510PDS Room8 FT fiberglass ladder1PDS RoomSF13078 FT fiberglass ladder1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| GRAPHTEC Thermal array Chart Recorder, WR1WR 8000LIBSnap-on QC5R1000 Torque Wrench1QC5R1000LIBElectro Physik Thickness Gauge, Minitest 6001Minitest 600LIBTire Cage1Loading DockSkidmore Wilham Calibration Tool1MechroomKar Products Hardware storage Cabinets1mechroomBird, Digital Power Meter, model 5000ex15000exMECHROOM CABBattery tester 6/12/ volt1MECHROOM CABGuidewheel Assy Fixture, 6D55460G0116D55460G01MECHROOM FLOORQC3R250 TORQUE WRENCH1QC3R250MRA3Long QCR250 TORQUE WRENCH1QCR600AMRA3pneumatic Calking Gun1MRC4MRA3Dayton Wet/dry Vacuum model # 1D456D11D456DPDS RoomBlack Rolling Cart, 3 shelf Bretford1FS1510PDS Room10 ft Ladder fiberglass Iadder1Pds RoomFS1510Green flat Hand Cart 2 x 42PDS Room, by spoolsSystem Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| Snap-on QC5R1000 Torque Wrench1QC5R1000LIBElectro Physik Thickness Gauge, Minitest 6001Minitest 600LIBTire Cage1Loading DockSkidmore Wilham Calibration Tool1MechroomKar Products Hardware storage Cabinets1mechroomBird, Digital Power Meter, model 5000ex15000exMECHROOM CABBattery tester 6/12/ volt1MECHROOM CABGuidewheel Assy Fixture, 6D55460G0116D55460G01MECHROOM FLOORQC3R250 TORQUE WRENCH1QC3R250MRA3Long QCR250 TORQUE WRENCH1QCR600AMRA3pneumatic Calking Gun1MRC4Dayton Wet/dry Vacuum model # 1D456D11D456DPDS RoomBlack Rolling Cart, 3 shelf Bretford1FS1510PDS Room10 ft Ladder fiberglass Model # FS15101FS1510PDS Room8 FT fiberglass ladder1PDS RoomSF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| Electro Physik Thickness Gauge, Minitest 6001Minitest 600LIBTire Cage1Loading DockSkidmore Wilham Calibration Tool1MechroomKar Products Hardware storage Cabinets1mechroomBird, Digital Power Meter, model 5000ex15000exBattery tester 6/12/ volt1MECHROOM CABGuidewheel Assy Fixture, 6D55460G0116D55460G01QC3R250 TORQUE WRENCH1QC3R250Long QCR250 TORQUE WRENCH1QCR600ADayton Wet/dry Vacuum model # 1D456D11D456DPDS Room1FS1510Black Rolling Cart, 3 shelf Bretford1FS151010 ft Ladder fiberglass Model # FS15101FS15108 FT fiberglass ladder1PDS RoomGreen flat Hand Cart 2 x 42PDS Room, by spoolsSystem Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                 |                 |
| Tire Cage1Loading DockSkidmore Wilham Calibration Tool1MechroomKar Products Hardware storage Cabinets1mechroomBird, Digital Power Meter, model 5000ex15000exMECHROOM CABBattery tester 6/12/ volt1MECHROOM CABGuidewheel Assy Fixture, 6D55460G0116D55460G01MECHROOM FLOORQC3R250 TORQUE WRENCH1QC3R250MRA3Long QCR250 TORQUE WRENCH1QCR600AMRA3Dayton Wet/dry Vacuum model # 1D456D11D456DPDS RoomBlack Rolling Cart, 3 shelf Bretford1FS1510PDS Room10 ft Ladder fiberglass Model # FS15101FS1510PDS Room8 FT fiberglass ladder1Pds RoomSF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                 |
| Skidmore Wilham Calibration Tool1MechroomKar Products Hardware storage Cabinets1mechroomBird, Digital Power Meter, model 5000ex15000exMECHROOM CABBattery tester 6/12/ volt1MECHROOM CABGuidewheel Assy Fixture, 6D55460G0116D55460G01MECHROOM FLOORQC3R250 TORQUE WRENCH1QC3R250MRA3Long QCR250 TORQUE WRENCH1QCR600AMRA3pneumatic Calking Gun1MRC4Dayton Wet/dry Vacuum model # 1D456D11D456DPDS RoomBlack Rolling Cart, 3 shelf Bretford1FS1510PDS Room10 ft Ladder fiberglass Model # FS15101FS1510PDS Room8 FT fiberglass ladder1Pds RoomSF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Minitest 600                                                                                                    |                 |
| Kar Products Hardware storage Cabinets1mechroomBird, Digital Power Meter, model 5000ex15000exMECHROOM CABBattery tester 6/12/ volt1MECHROOM CABGuidewheel Assy Fixture, 6D55460G0116D55460G01MECHROOM FLOORQC3R250 TORQUE WRENCH1QC3R250MRA3Long QCR250 TORQUE WRENCH1QCR600AMRA3QCR600A Torque Wrench1MRA3pneumatic Calking Gun1MRC4Dayton Wet/dry Vacuum model # 1D456D11D456DBlack Rolling Cart, 3 shelf Bretford1FS151010 ft Ladder fiberglass Model # FS15101FS15108 FT fiberglass ladder1PDS RoomGreen flat Hand Cart 2 x 42PDS Room, by spoolsSystem Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                 |
| Bird, Digital Power Meter, model 5000ex15000exMECHROOM CABBattery tester 6/12/ volt1MECHROOM CABGuidewheel Assy Fixture, 6D55460G0116D55460G01MECHROOM FLOORQC3R250 TORQUE WRENCH1QC3R250MRA3Long QCR250 TORQUE WRENCH1QCR600AMRA3QCR600A Torque Wrench1MRA3pneumatic Calking Gun1MRC4Dayton Wet/dry Vacuum model # 1D456D11D456DBlack Rolling Cart, 3 shelf Bretford1FS151010 ft Ladder fiberglass Model # FS15101FS15108 FT fiberglass ladder1PDS RoomGreen flat Hand Cart 2 x 42PDS Room, by spoolsSystem Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                 |
| Battery tester 6/12/ volt1MECHROOM CABGuidewheel Assy Fixture, 6D55460G0116D55460G01MECHROOM FLOORQC3R250 TORQUE WRENCH1QC3R250MRA3Long QCR250 TORQUE WRENCH1QCR600AMRA3QCR600A Torque Wrench1MRA3pneumatic Calking Gun1MRC4Dayton Wet/dry Vacuum model # 1D456D11D456DBlack Rolling Cart, 3 shelf Bretford1PDS Room10 ft Ladder fiberglass Model # FS15101FS15108 FT fiberglass ladder1PDS RoomGreen flat Hand Cart 2 x 42PDS Room, by spoolsSystem Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                 |
| Guidewheel Assy Fixture, 6D55460G0116D55460G01MECHROOM FLOORQC3R250 TORQUE WRENCH1QC3R250MRA3Long QCR250 TORQUE WRENCH1QCR600AMRA3QCR600A Torque Wrench1MRA3pneumatic Calking Gun1MRC4Dayton Wet/dry Vacuum model # 1D456D11D456DBlack Rolling Cart, 3 shelf Bretford1PDS Room10 ft Ladder fiberglass Model # FS15101FS15108 FT fiberglass ladder1PDS RoomGreen flat Hand Cart 2 x 42PDS Room, by spoolsSystem Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5000ex                                                                                                          |                 |
| QC3R250 TORQUE WRENCH1QC3R250MRA3Long QCR250 TORQUE WRENCH1QCR600AMRA3QCR600A Torque Wrench1MRA3pneumatic Calking Gun1MRC4Dayton Wet/dry Vacuum model # 1D456D11D456DBlack Rolling Cart, 3 shelf Bretford1PDS Room10 ft Ladder fiberglass Model # FS15101FS15108 FT fiberglass ladder1PDS RoomGreen flat Hand Cart 2 x 42PDS Room, by spoolsSystem Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | · ·                                                                                                             |                 |
| Long QCR250 TORQUE WRENCH1QCR600AMRA3QCR600A Torque Wrench1MRA3pneumatic Calking Gun1MRC4Dayton Wet/dry Vacuum model # 1D456D11D456DBlack Rolling Cart, 3 shelf Bretford1PDS Room10 ft Ladder fiberglass Model # FS15101FS15108 FT fiberglass ladder1PDS RoomGreen flat Hand Cart 2 x 42PDS Room, by spoolsSystem Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Guidewheel Assy Fixture, 6D55460G01  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                 |
| QCR600A Torque Wrench1MRA3pneumatic Calking Gun1MRC4Dayton Wet/dry Vacuum model # 1D456D11D456DBlack Rolling Cart, 3 shelf Bretford1PDS Room10 ft Ladder fiberglass Model # FS15101FS15108 FT fiberglass ladder1PDS RoomGreen flat Hand Cart 2 x 42PDS Room, by spoolsSystem Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                 |
| pneumatic Calking Gun1MRC4Dayton Wet/dry Vacuum model # 1D456D11D456DPDS RoomBlack Rolling Cart, 3 shelf Bretford1PDS Room10 ft Ladder fiberglass Model # FS15101FS1510PDS Room8 FT fiberglass ladder1Pds RoomGreen flat Hand Cart 2 x 42PDS Room, by spoolsSystem Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      | Law a contraction of the second secon | QCR600A                                                                                                         |                 |
| Dayton Wet/dry Vacuum model # 1D456D11D456DPDS RoomBlack Rolling Cart, 3 shelf Bretford1PDS Room10 ft Ladder fiberglass Model # FS15101FS1510PDS Room8 FT fiberglass ladder1Pds RoomGreen flat Hand Cart 2 x 42PDS Room, by spoolsSystem Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                 |
| Black Rolling Cart, 3 shelf Bretford1PDS Room10 ft Ladder fiberglass Model # FS15101FS1510PDS Room8 FT fiberglass ladder1Pds RoomGreen flat Hand Cart 2 x 42PDS Room, by spoolsSystem Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | pneumatic Calking Gun                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                 |
| 10 ft Ladder fiberglass Model # FS15101FS1510PDS Room8 FT fiberglass ladder1Pds RoomGreen flat Hand Cart 2 x 42PDS Room, by spoolsSystem Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1D456D                                                                                                          |                 |
| 8 FT fiberglass ladder1Pds RoomGreen flat Hand Cart 2 x 42PDS Room, by spoolsSystem Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                 |
| Green flat Hand Cart 2 x 42PDS Room, by spoolsSystem Drawings, 1 Pallet,1SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FS1510                                                                                                          |                 |
| System Drawings, 1 Pallet, 1 SF1307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                 |
| System Drawings, 1 Pallet,1SF1307Extra Metal shelving units, 1 Pallet1SF1415                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                 |
| Extra Metal shelving units, 1 Pallet 1 SF1415                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | System Drawings, 1 Pallet,           | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | · ·                                                                                                             |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Extra Metal shelving units, 1 Pallet | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 | SF1415          |

| Item                                                 | Qiy           | Rarí No:        | Location                     |
|------------------------------------------------------|---------------|-----------------|------------------------------|
| AQUAWORKS Parts Cleaning Machines                    | 1             |                 | shop floor                   |
| 2 shop fans 24"                                      | 1             |                 | shop floor                   |
| 10' Ladder M7110-1 type 1A                           | 1             | M7110-1 type 1A | STOREROOM                    |
| Uline Banding Cart and tools                         | 1             |                 | Storeroom                    |
| Forklift Extensions, 8 FT,                           | 1             | 6XX16           | Storeroom back wall          |
| Fire Safety Cabinets                                 | 4             |                 | storeroom, Janitorial, BAY 5 |
| Air Operated Calking gun 3M BP 480-85 MIX PAC        | 1             | BP 480-85       | Storreroom back shelf        |
| Spectroline DC-3300A Eprom/waiver Eraser             | 1             | DC-3300A        | T126                         |
| Tektronix 314 storage Oscilloscope                   | 1             | Tektronix 314   |                              |
| Astromed MT9500 Chart Recorder                       | 1             | MT9500          | T128                         |
| HP 6274B DC Power Supply                             |               | HP 6274B        | T128                         |
| Lambda LRA-17 Rack Power Supply                      | 1             |                 | T128                         |
| Milwaukee Mag Drill,                                 | 1             |                 | Tool crib cage floor         |
| Craftsman 150 psi 3 hp 4 gal air compressor          | 1             |                 | Tool crib cage floor         |
| Portatorch, Lincoln                                  | 1             |                 | toolcrib floor               |
| Dayton Battery Charge 40/2 amp                       | <u>1</u>      |                 | toolcrib floor               |
| Battery powered grease gun, Lincoln                  | <u>1</u>      |                 | toolcrib floor               |
| 48 " Straight Edge                                   | 2             |                 | toolcrib wall                |
| 48 Straight Edge<br>MEASURING DISTANCE WHEEL, Lufkin | <u>2</u>      |                 |                              |
|                                                      |               | DEVI2           | top shelf toolcrib           |
| BEX bluepoint BEX13 Bolt Extractor Set               | 1             | BEX13           | U113                         |
| LCD Vacuum Gauges                                    | . 2           | 69070           | <u>U115</u>                  |
| Freon Leak Detector                                  | <u>l</u>      |                 | <u>U115</u>                  |
| Hydraulic Rivet Gun                                  | 1             | 1               | U118                         |
| Hole saw Kit, Westward                               | 1             | 4wx60           | U118                         |
| Electric Winch3VJ64                                  | 1             |                 | U119                         |
| 4 TON HYDRAULIC RAM SET                              | 1             |                 | U119                         |
| Chain Hoist 3 ton                                    | 1             |                 | U119                         |
| Vari speed Jigsaw                                    | 1             |                 | U120                         |
| 6" DIAL Calipers, nsk                                | 1             |                 | U122                         |
| Starett Micrometer model                             | 2             | 230p            | U122,,MRA1                   |
| Hilti Hammer Drills                                  | 2             | TE-6A           | U125                         |
| HILti Hammer Drills                                  | 1             | TE15            | U125                         |
| Portable Variable band saw Milwaukee                 | 1             |                 | U126                         |
| 1/4" Die Grinder Milwaukee                           | 1             |                 | U128                         |
| Greenlee Hydraulic Knockout Set 7506, 1/2 - 2"       | 1 .           | 7506            | U130                         |
| Hilti Hammer Drill                                   | 1             | TE-55           | U130                         |
| David White auto level                               | 1             |                 | U131                         |
| Tripod, David White mod 9045                         | 1             | 9045            | U131                         |
| Measuring stick, David White                         | 1             |                 | U131                         |
| PLS-5 Lazar Level                                    | 1             | PLS-5           | U131                         |
| Audio Visual VOLTAGE Detector, Salisbury             | 1             |                 | U132                         |
| Mag Drill, Hougen rotor broach                       | 1             |                 | U133                         |
| ULTRA -LOK self Ratcheting Lifeline & Harness        | 3             |                 | U134                         |
| Tie Downs                                            | 6             | 3kn70           | U134                         |
| Cross Needle SWR and power meter                     | 1             | cn-1031         | V101                         |
| Diode removal tool,                                  |               | 577B060H33      | V103                         |
| Radius Rod Removal Tools                             | 2             |                 | V103                         |
| Submersible Pump                                     | 4             | 5RV54           | V119                         |
| Extech Lazer photo/contact Tachometer                | <del></del>   |                 | V119<br>V122                 |
| Transfer Pump                                        | <u> </u>      | 6Y881           | V122<br>V125                 |
| Dewalt Grinder 4 1/2 "                               | 1             | 01001           | V125<br>V128                 |
| Special Seismic tool Measuring Kits                  | $\frac{1}{2}$ |                 | V128<br>V129                 |
| Complete Mechanics tool Sets with tool box           | 46            |                 | shop floor                   |
| (SFO Owned) Toyota Sitdown Forklift, Propane op.     | 40            |                 | 1st Floor                    |
| Fluke 179 multimeter                                 |               | <u> </u>        | JROW                         |
|                                                      | $\frac{1}{1}$ |                 |                              |
| OUTDOOR STORAGE SHED                                 |               | ·               | BY CARWASH                   |
| OIL HEATER                                           | 1             | -               | CONFERENCE ROOM              |
| Honda Generator                                      | 1             |                 | Bay 2                        |

| Item                                            | Qiy | Pari No. | Location -   |
|-------------------------------------------------|-----|----------|--------------|
| Carpet Loader Attachment for Forklift           | 1   |          | bottom floor |
| UTICA, ts-100 Torque limit Screwdriver, mc      | 1   | 8554a25  | victor       |
| MCARR Digital torque wrench,                    | 1   | CD2250A  | VICTOR       |
| McCarr Digital torque wrench,                   | 1   | CD280fr  | victor       |
| McCarr proto Hex Bit Ball Set 7 pc              | 1   |          | Victor       |
| AMP PRO CRIMPER,                                | 2   | 90869-1  | VICTOR       |
| AMP EXTRACTION TOOLS,                           | 2   | 318831-1 | VICTOR       |
| Daniels SAAFE T Cable tool,                     | 1   | SCT323   | ERIC         |
| UNION SWITCH RELAY TEST STAND,                  | 1   | PN150    | ALFREDO      |
| UNION SWITCH RELAY TEST STAND, GRS B1           | 1   |          | ALFREDO      |
| Xantrex Power Supply, model # XDL56-4P          | 1   |          | JEFF         |
| RAD Torque Machine, model RAD 550SL             | 1   |          | shop floor   |
| Micro-Ohmmeter, model# LOM-510A                 | 1   |          | JEFF         |
| Vericom Brake rate Tester                       | 1   |          | Eric         |
| Tyco Electronics Die Crimp# 2 for large Crimper | 1   |          | shop floor   |

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## Task 5: AirTrain Vehicle Tri-Handle Stanchion Replacement

## **General Project Scope:**

Contractor will provide all material, labor, tools, engineering, vehicle drawing updates/configuration management associated with the supply and installation of 190 new tri-handle stanchion assemblies into the AirTrain vehicles at the San Francisco International Airport.

## Installation:

Currently each vehicle is outfitted with five (5), single pole stanchions along the center line of the vehicle and two (2) stanchions that are offset near the door opening. To increase the number of locations within the center portion of the vehicle that passengers can hold themselves steady during vehicle movement, Contractor will replace the five (5), single pole, center-line stanchions with tri-handle stanchions. Replacement of the single stanchion design with a tri-handle stanchion design will improve passenger experience on the AirTrain system and increase the safety level inside the vehicle while traversing the system.

Retrofits will be performed during normal station door maintenance inspections and will not impact normal AirTrain operations.

## Final Acceptance:

The following will be performed to verify final acceptance:

- Once units arrive on site, a quality assurance inspection will be performed prior to installation.
- After QA inspection, the installation of each unit will begin. Installation process will be inspected to confirm proper mounting.
- Contractor to ensure any debris from project has been removed from all areas upon completion of job.

## Warranty

Each unit will carry a standard warranty of 1 year on all parts from date of purchase.

## Cost of Project:

The firm fixed price for the combined scope as described is broken down as follows:

| • Contractor Labor Charges – Includes:                                    | \$56,280.00  |
|---------------------------------------------------------------------------|--------------|
| <ul> <li>Project Management</li> </ul>                                    | •            |
| o Engineering                                                             |              |
| o Configuration Management                                                |              |
| 0 Drafting                                                                |              |
| <ul> <li>Installation (38 Vehicles)</li> </ul>                            |              |
| <ul> <li>Qty (190) – Tri-Handle Stanchion Post @ \$875.85/ea.:</li> </ul> | \$166,411.50 |
| • Qty (190) – Bottom Plate @ \$138.25/ea:                                 | \$26,267.50  |
| • Qty (185) – Trim Ring @ \$69.68/ea:                                     | \$12,890.80  |
| • Miscellaneous installation hardware and adhesives:                      | \$5,967.38   |
| • CA Sales Tax on Materials (8.75%):                                      | \$18,509.50  |
| Material Shipping:                                                        | \$5,332.70   |
| TOTAL:                                                                    | \$291,659.38 |

## Task 5: AirTrain Vehicle Tri-Handle Stanchion Replacement

**Payment Terms:** The following payment schedule is proposed for this project:

- 15% of order value to be invoiced upon receipt of authorized notice to proceed
- 10% of order value to be invoiced upon completion of material order
- 25% of order value to be invoiced upon 1st car installation and acceptance by the customer
- 25% of order value to be invoiced upon delivery of remaining material to SFO
- 25% of order value to be invoiced upon completion and testing of all units

## Task 6: AirTrain Station Door Auto-Lock Replacement

## **General Project Scope:**

This project will replace 122 automatic station door auto-lock assemblies located at the various AirTrain stations. The project scope includes the following:

- Contractor will provide all necessary project management, engineering, drafting and material supply for retrofitting one hundred and twenty-two (122) station doors plus four (4) spare Auto-Lock systems and a complete Spare Parts kit.
- Contractor SDC Staff will be responsible for installation and testing of the new auto-lock equipment, on a schedule to be mutually agreed to by SFO and Contractor.

## Installation:

Retrofits will be performed during normal overnight shutdown periods recognizing that installation and testing activities, whenever possible, must not impact normal AirTrain operations.

#### **Final Acceptance:**

The following will be performed to verify final acceptance:

- Once units arrive on site a quality assurance inspection will be performed prior to installation.
- After QA inspection the installation of each unit will begin. Installation process will be inspected to confirm proper mounting.
- A final test of each unit will be performed after installation to ensure secure close and lock is achieved.
- Contractor to ensure any debris from project has been removed from all areas upon completion of job.

### Warranty:

Each unit will carry a standard warranty of 1 year on all parts from date of purchase.

## Cost of Project:

The firm fixed price for the Auto-Lock retrofit is as follows:

|   | Bombardier Labor Charges – Includes:                                | \$27,560.00  |
|---|---------------------------------------------------------------------|--------------|
|   | <ul> <li>Project Management &amp; Scheduling</li> </ul>             |              |
|   | 0 Engineering                                                       |              |
|   | 0 Planning                                                          |              |
|   | o CADD/Drafting                                                     |              |
|   | <ul> <li>Installation (126 assemblies)</li> </ul>                   |              |
|   | Qty (126) – Auto-Lock Assemblies @ \$1,264.65/ea:                   | \$159,345.90 |
| ۲ | Qty (1) – Set of Alignment Tools:                                   | \$1,030.54   |
| • | Qty (1) – Spare Parts Kit:                                          | \$3,727.59   |
| 0 | CA Sales Tax on Materials (8.75%):                                  | \$14,259.10  |
| 0 | Freight:                                                            | \$4,137.05   |
|   | Optional Services (on-site training, calibration of tooling, etc.): | \$3,795.00   |
|   | TOTAL:                                                              | \$213,953.93 |

## Task 6: AirTrain Station Door Auto-Lock Replacement

## Payment Terms:

- 15% of order value to be invoiced upon receipt of authorized notice to proceed
- 10% of order value to be invoiced upon completion of material order
- 25% of order value to be invoiced upon 1st station door installation and acceptance
- 25% of order value to be invoiced upon delivery of remaining material to SFO
- 25% of order value to be invoiced upon completion and testing of all units

## City and County of San Francisco Airport Commission P.O. Box 8097 San Francisco, California 94128

#### Modification No. 2

THIS MODIFICATION (this "Modification") is made as of May 20, 2014, in San Francisco, California, by and between **Bombardier Transportation (Holdings) USA Inc.** ("Contractor"), and the City and County of San Francisco, a municipal corporation ("City"), acting by and through its Airport Commission or the Commission's designated agent, hereinafter referred to as "**Commission**."

## RECITALS

WHEREAS, City and Contractor have entered into the Agreement (as defined below); and

WHEREAS, City and Contractor desire to amend the Agreement on the terms and conditions set forth herein to address the replacement of obsolete equipment; and

WHEREAS, the Commission awarded this contract to Contractor on September 16, 2008, pursuant to an agreement to settle a dispute among the City and County of San Francisco, Bombardier Transportation (Holdings) USA, Inc., and Factory Mutual Insurance Company which was filed in the United States District Court for the Northern District of California, case number C 04-5307 PJH, and further pursuant to Resolution No. 08-0173; and

WHEREAS, pursuant to San Francisco Charter Section 9.118, the Board of Supervisors by its Resolution No. 266-08, adopted November 18, 2008, approved the contract to Contractor; and

WHEREAS, Commission approved Modification No. 1 pursuant to Resolution No. 13-0156 on July 23, 2013; and

WHEREAS, pursuant to San Francisco Charter Section 9.118, the Board of Supervisors by its Resolution No. 0429-13, adopted December 10, 2013, approved the modification to the Agreement; and

WHEREAS, Commission approved this Modification No. 2 pursuant to Resolution No. 14-0104 on May 20, 2014; and

WHEREAS, pursuant to San Francisco Charter Section 9.118, the Board of Supervisors by its Resolution No. 328-14, adopted September 9, 2014, approved the modification to the Agreement but reduced the not to exceed amount by \$4,340 for a new not-to-exceed amount of \$100,543,834; and

NOW, THEREFORE, Contractor and the City agree as follows:

1. **Definitions.** The following definitions shall apply to this Amendment:

a. Agreement. The term "Agreement" shall mean the Agreement dated September 16, 2008 between Contractor and City, as amended by the:

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Modification No. 1,

#### dated August 1, 2013.

**b.** Other Terms. Terms used and not defined in this Modification shall have the meanings assigned to such terms in the Agreement.

2. Section 4. Services Contractor Agrees to Perform of the Agreement is amended to address the replacement of obsolete equipment as detailed in the New Appendix G, Tasks 1-4.

3. Section 5. Compensation is hereby amended to increase the total compensation payable by an amount not to exceed One Million Eight Hundred Forty Three Thousand Eight Hundred Thirty Four Dollars (1,843,834) for a new total not to exceed amount of One Hundred Million Five Hundred Forty Three Thousand Eight Hundred Thirty Four Dollars (100,543,834).

4. Appendix E. Spare Parts, Tools, and Equipment List is hereby replaced in its entirety with the new Appendix E-1.

5. New Appendix G. Appendix G is hereby added to the Agreement to address replacement of obsolete equipment covered under the contract. Performance of the Tasks in Appendix G is subject to mutually agreeable terms and conditions, which shall be established prior to the start of each task.

6. Effective Date. Each of the modifications set forth in Section 2 shall be effective on and after May 20, 2014.

7. Legal Effect. Except as expressly modified by this Modification, all of the terms and conditions of the Agreement shall remain unchanged and in full force and effect.

AIR-550 (7-11)

CITY CONTRACTOR AIRPORT COMMISSION CITY AND COUNTY OF SAN FRANCISCO By: John K. Martin, Airport Director Authorized Signature AlainAumais Printed Name Attest: VP Title By Bombardier Transportation (Holdings) USA Inc. Jean Caramatti, Secretary Company Name Airport Commission 40554 Resolution No: City Vendor Number Adopted on: 1501 Lebanon Church Road Address Pittsburgh, PA 15236 Approved as to Form: City, State, ZIP Dennis J. Herrera (412) 655-5700 City Attorney Telephone Number 25-1579550 Federal Employer ID Number By **Constance** Menefee Deputy City Attorney

IN WITNESS WHEREOF, Contractor and City have executed this Amendment as of the date first referenced above.

May 20, 2014, Contract #8838

#### Task 2: AirTrain UPS Replacement

#### General Project Scope

Contractor will replace 128 light-emitting diode (LED) signs currently used at all AirTrain stations with 46' liquid-crystal display (LCD) monitors using existing support beams and infrastructure.

The LCD sign replacements shall be fully compatible with the current RS-422 serial network. The signs shall be fully addressable and controlled by the Bombardier supplied Computer Interface Control System (CICS) already installed.

The signs shall be mounted to the existing support beams at each AirTrain station using off-the-shelf mounting hardware and in a fashion that allows for easy replacement. The signs shall operate fully on the existing signal and power wiring. Contractor shall perform over-site of all phases of the installation.

#### Mechanical

Contractor will replace the current double-sided LED signs with two single sided 46" LCD signs. Both signs must be identical; they must be configured with the same RS-422 address and content look-up table currently used by the Bombardier CICS in order to display identical content.

- LCD: 46"
- Resolution: 1920 X 1080
- Brightness: 700 Nits
- Weight: 35KG

#### **Electrical Components**

- RS422-to-RS232 Serial Adapter with daisy chain out and surge suppression.
- 120/240VAC Power Supply with standard 3-prong AC Plug input, IEC-320-C14. Power consumption: -120W per display

#### Software Requirements

Contractor will load each unit with customizable VideoPoster-111 firmware running on Windows based software, which is required to generate the content and playlists for the retrofit signs. The playlist will be a "bit map (BMP)-trigger content lookup table". The software will allow the user to generate a playlist and specify a specific file in the playlist using a BMP-trigger. This playlist and a BMP-trigger data will be uploaded to the VideoPoster-111 via USB flash drive.

#### Installation

The following will be done at each display location:

- Remove existing LED sign, disconnect AC power, and remove two support tubes from bottom of 8" x 4" horizontal support arm.
- Install AC junction box to bottom of support arm
- Install Peerless SLT646 mount to each side of support arm using (4) Hillman W' Strap-toggles per mount.
- Displays will be located as high as possible off the floor.
- AC for displays will be hardwired in the AC junction box.
- Connect data cable.

## Task 2: AirTrain UPS Replacement

• Old LED signs will be removed from each station.

#### Final Acceptance:

The following will be performed to verify final acceptance:

- Upon final completion of software design the contractor will provide one complete LCD sign unit to the SFO site for demonstration purposes.
- Demonstration unit must be operating on final design software.
- Demonstration unit will be connected to the sign controller to verify proper functionality.
- Demonstration unit must fully recognize and properly display both automated and operator generated text from CICS sign controller.
- Demonstration sign will operate continuously without failure for 14 days to verify software design.
- Upon completion and approval from AirTrain management of the above functions contractor will proceed with manufacturing all units.
- Once units arrive on site a quality assurance inspection will be performed prior to installation.
- After QA inspection the installation of each unit can begin. Installation process will be inspected to confirm proper mounting.
- A final test of each unit will be performed after installation to ensure communication with existing sign controller.
- Contractor to ensure any debris from project has been removed from all areas upon completion of job.

#### Warranty

Each unit will carry a standard warranty of 1 year on all parts from date of purchase.

### **Task Cost**

| Software Engineering and Development                                            | \$48,000  |
|---------------------------------------------------------------------------------|-----------|
| Mechanical Design of Enclosure                                                  | \$7,500   |
| On Site Demonstration - LCD and controller to confirm functionality             | \$2,000   |
| Complete two LCD set with controller and enclosure for Demonstration (material) | \$10,000  |
| 128 units plus 4 spares (material)                                              | \$357,600 |
| CA Sales Tax- 8.75% on material only                                            | \$32,165  |
| FCC Certification Testing                                                       | \$5,000   |
| Installation labor and LCD mounting hardware                                    | \$70,000  |
| Onsite training and commissioning                                               | \$8,000   |
| Shipping of material to site                                                    | \$5,000   |
| Develop Graphic Content – Illium Co.                                            | \$25,000  |
| Bombardier Project Management Fee (15%)                                         | \$80,715  |
| CA Sales tax - 8.75% on Mark-up                                                 | \$7,063   |
| Total Task 1 Cost                                                               | \$658,043 |

## Task 2: AirTrain UPS Replacement

## **General Project Scope**

Contractor will replace 13 obsolete UPS units used to supply back-up power to vital AirTrain equipment. UPS locations and sizes are as follow:

| Location                 | Equipment Description | Manufacturer | Model        |
|--------------------------|-----------------------|--------------|--------------|
| Bldg. 679 PDS            | 10kVA IPM UPS         | IPM          | ВРП-30-2020  |
| Bldg. 679 PDS            | 10kVA IPM UPS         | IPM          | ВРП-10-2020  |
| Lot C                    | 20kVA IPM UPS         | IPM          | BPII-10-2020 |
| Bldg. 679 Control Center | 20kVA IPM UPS         | IPM          | ВРП-25-2020  |
| Westfield Road           | 10kVA IPM UPS         | IPM          | BPII-25-2020 |
| Int. Garage - A          | 10kVA IPM UPS         | IPM          | BPII-30-2020 |
| Int. Terminal - A        | 10kVA IPM UPS         | IPM          | ВРП-25-2020  |
| Rental Car Center        | 20kVA IPM UPS         | IPM .        | BPII-25-2020 |
| Terminal - 1 Garage      | 10kVA IPM UPS         | IPM          | BPII-25-2020 |
| Terminal - 2 Garage      | 10kVA IPM UPS         | IPM          | BPII-25-2020 |
| Terminal - 3 Garage      | 10kVA IPM UPS         | IPM          | ВРП-25-2020  |
| Int. Terminal - G        | 10kVA IPM UPS         | IPM          | ВРП-25-2020  |
| Int. Garage - G          | 10kVA IPM UPS         | · IPM        | BPII-25-2020 |

The UPS replacements shall be fully compatible with current power and network requirements. The UPS shall be able to communicate current operating and alarm conditions to the Bombardier supplied Computer Interface Control System (CICS). The UPS units shall have maintenance by-pass switches allowing complete bypass of each unit for maintenance purposes. Under a loss of input power condition, each UPS unit shall have the ability to supply power to all connected equipment for a minimum of 120 minutes.

The UPS units shall be mounted onto existing maintenance pads using standard hardware. UPS unit shall operate using existing power input voltage and existing communication wiring. Contractor shall perform oversight of all phases of the installation.

#### **Technical Specifications**

Contractor shall properly mount each UPS unit onto existing maintenance pad provided at each location. Each unit shall utilize maintenance free batteries and have adequate ventilation to keep batteries at proper operating temperatures. Each UPS units shall meet the following criteria:

- Efficiency better than 90% at full load and 85% at half load.
- Be Field Upgradable
- Inverter/Rectifier Transformer Free IGBT with PWM
- Audible Noise Less than 50db
- Battery Maintenance free with external battery cabinet
- Charging Method ABM Technology
- Integrated maintenance bypass switch
- Comply with the following standards IEC 6204-1, IEC 60950-1, IEC 62040-2, IEC 62040-3
- X Slot 2 Communication Bays
- Serial Ports 1

#### Task 2: AirTrain UPS Replacement

• Relay Input/output Ports – 2 programmable

#### **Electrical Components**

- Input wiring 3phase
- Input Voltage 208/380 at 50.60hz configurable
- Frequency 45–60HZ
- Input THD Less than 45%
- Soft Start Capability
- Internal Back-up Protection
- Output wiring 3phase
- Output Voltage 208/380 at 50/60hz

## Installation

At each UPS location, Contractor will:

- Re-configure power around existing UPS units to allow the AirTrain system continued operation without interruption while UPS unit is being replaced.
- Remove existing UPS units and all batteries.
- Install new UPS unit onto existing maintenance pads.
- Install maintenance bypass switch
- Test each unit to confirm communication with CICS.
- Load test unit battery operation to confirm 120 minute run time
- Remove old UPS unit and batteries from site.

#### **Final Acceptance:**

The following will be performed to verify proper function of each UPS unit.

- Inspect each UPS unit to verify all technical specifications have been met.
- Inspect each unit to confirm build quality.
- Inspect each unit for proper mounting to existing maintenance pad.
- Inspect each units wiring for proper termination upon final connection.
- Test each unit under full load conditions to verify it meets the 120 minute run time requirement.
- Test each unit to ensure proper transmission of operating status and alarm conditions to control center.
- Verify proper disposal of all old UPS units and all batteries.

## Warranty:

Each unit will carry the following on-site warranty: 90 days labor and 1 year parts from date of purchase.

## Task 2: AirTrain UPS Replacement

## Cost of Project

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| Item | Qty | Description                                                                                                                                                                                                                                                                                                                                                                                                                                  | Unit     | Price     |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|
| . 1  | 3   | Eaton 9355 Powerware Series 20kVA/18kW 3-Phase<br>UPS System with Internal Batteries, 18 Minute<br>Runtime At Full Load, Input/Output 208V/208V, Unit Is<br>Scalable To 30kVA with Connect UPS-X Web/SNMP<br>Card Part #KB2013100000010. For locations, Lot C,<br>Bldg. 679 Control Center and Rental Car Center                                                                                                                             | \$15,300 | \$45,900  |
| 2    | 6   | 9355 20kVA 4 String Line & Match Extended Battery<br>Cabinet and Batteries. Two EBC72's Per UPS In<br>Addition To Internal Batteries Will Achieve 114<br>Minutes Of Run Time At Full Load Part#103004868.<br>For locations, Lot C, Bldg. 679 Control Center and<br>Rental Car Center                                                                                                                                                         | \$8,999  | \$53,994  |
| 3    | 10  | Eaton 9355 Powerware Series 10kVA/9kW 3-Phase<br>UPS System With Internal Batteries, 8 Minute Runtime<br>At Full Load, Input/Output 208V/208V, Unit Is Scalable<br>To 15kVA With Connect UPS-X Web/SNMP Card<br>Part# KA1011100000010. For Locations Bldg. 679<br>PDS, Bldg. 679 PDS, Westfield Road, Int., Garage – A,<br>Int. Terminal A, Terminal 1 Garage, Terminal 2 Garage,<br>Terminal – 3 Garage, Int. Terminal – G, Int. Garage - G | \$10,271 | \$102,710 |
| . 4  | 20  | 9355 10kVA 2-High Line & Match Extended Battery<br>Module And Batteries. Two EBM96's Per UPS In<br>Addition To Internal Batteries Will Achieve 124<br>Minutes Of Run Time At Full Load Part #103004193-<br>5501. For Locations Bldg. 679 PDS, Bldg. 679 PDS,<br>Westfield Road, Int. Garage – A, Int. Terminal A,<br>Terminal 1 Garage, Terminal 2 Garage, Terminal – 3<br>Garage, Int. Terminal – G, Int. Garage – G                        | \$5,849  | \$116,980 |
| 5    | 13  | Maintenance Bypass Panels For PW9355 10kVA And 20kVA                                                                                                                                                                                                                                                                                                                                                                                         | \$1,648  | \$21,424  |
| 6    | 13  | Remove Old UPS Systems, Batteries and Battery Rack                                                                                                                                                                                                                                                                                                                                                                                           | \$1,879  | \$24,427  |
| 7    | 1   | Three Phase 480 to 208 30kVA Transformer For 20kVA UPS At Lot C                                                                                                                                                                                                                                                                                                                                                                              | \$1,947  | . \$1,947 |
| 8    | 13  | Labor - UPS Electrical Installation. This includes work<br>that can be completed during regular business hours as<br>well as work performed after hours. Also includes all<br>electrical materials. Current electrical box attached to<br>lower back of existing UPS units will be used and<br>properly installed to the existing pad as an Input/Output<br>box.                                                                             | \$3,900  | \$50,700  |

| Item | Qty                                     | Description                                                                     | Unit | Price     |
|------|-----------------------------------------|---------------------------------------------------------------------------------|------|-----------|
| 9    | 13                                      | Factory Startup & 1-Year Warranty (During Regular<br>Business Hours             | -    | Included  |
| 10   | 1                                       | Freight (Cost Based On Complete Shipment – No Split<br>Shipments)               | -    | \$9,992   |
| 11   | 1                                       | Labor - Removal from Site and proper Disposal of UPS<br>units and all batteries | -    | \$12,000  |
| 12   | . 1                                     | CA Sales Tax on material at 8.75%                                               | -    | \$32,146  |
| 13   | 1 Project Management – Bombardier (15%) |                                                                                 | -    | \$66,011  |
| 14   | 14 1 CA Sales tax - 8.75% on Mark-up    |                                                                                 | -    | \$5,776   |
|      |                                         | Total Task 2 Cost                                                               |      | \$544,007 |

## Task 2: AirTrain UPS Replacement

AIR-550 (7-11)

September 26, 2014, Contract #8838

## Task 3: AirTrain Vehicle Flooring Replacement

## General Project Scope

Contractor will replace worn flooring in all 38 AirTrain vehicles. Contractor shall use the following product for all vehicles:

- Dura-Tile LT-50, Manufactured by the Pawling Corporation
- Height: 3/8" (+1/8"-0")
- Size: 12" x 12" tiles
- Installation: Glue-down using waterproof marine based glue
- Material: 100% Recycled Rubber
- Color: Blue
- Construction: Rugged tire cord bonded to fiberglass backing
- Static Coefficient of Friction Ratio: Dry 0.67, Wet 0.89 (ASTM D-2047)
- Flammability: Exceeds (FF-1-70) flammability rating

### Installation

Contractor will perform the following on each vehicle:

- Demolition and disposal of existing flooring and upholstery material (recycle where possible).
- Clean and prepare floor for new material.
- Installation of 270 Sqft of 12" X 12" LT-50 carpet tiles per vehicle.
- Replace existing carpet on both end compartments with customer supplied carpet.
- Quotation based on the availability of two (2) vehicles at a time.

### Final Acceptance

• Each vehicle will be inspected by AirTrain manager to ensure installation quality prior to vehicle being released from the shop.

### Warranty

Each vehicle will carry the following on-site warranty: 90 days labor and 1 year on material from date of purchase.

## Task Cost

| AirTrain Flooring Installation x 38 Vehicles (Includes Freight) | \$166,585 |
|-----------------------------------------------------------------|-----------|
| CA Sales Tax- 8.75% on Material                                 | \$14,576  |
| Labor to Remove and Install Flooring                            | \$111,430 |
| Labor to Install Side Wainscoting                               | \$17,100  |
| Bombardier Project Management Fee (10%)                         | \$29,511  |
| CA Sales tax - 8.75% on Mark-up                                 | \$2,582   |
| Total Task 3 Cost                                               | \$341,784 |

## Task 4: Replacement of Worn or Obsolete Equipment

## Scope

As indicated in Appendix B General Requirements, 7.0 Repair and Replacement of Parts, Components or Materials, Contractor when necessary will replace parts, components, or materials associated with the operation and maintenance of the AirTrain that have either become worn beyond repair or obsolete and can no longer be serviced.

### **Total Task 4 Cost**

Contractor shall promptly repair or replace the equipment at a not-to-exceed cost of \$300,000 over the three-year contract term.

September 26, 2014, Contract #8838

## City and County of San Francisco Airport Commission P.O. Box 8097 San Francisco, California 94128

## Agreement between the City and County of San Francisco and

## **Bombardier Transportation (Holdings) USA Inc.**

#### Contract No. 8838

This Agreement is made this 16th day of September, 2008, in the City and County of San Francisco, State of California, by and between: Bombardier Transportation (Holdings) USA Inc., 1501 Lebanon Church Road, Pittsburgh, PA 15236, hereinafter referred to as "Contractor," and the City and County of San Francisco, a municipal corporation, hereinafter referred to as "City," acting by and through its Airport Commission or the Commission's designated agent, hereinafter referred to as "Commission."

#### Recitals

WHEREAS, Commission wishes to enter into a contract with the Contractor to provide operation and maintenance services for the AirTrain system; and,

WHEREAS, Commission is authorized to enter into all contracts which relate to matters under its jurisdiction; and

WHEREAS, Commission awarded this contract to Contractor on September 16, 2008, pursuant to an agreement to settle a dispute among the City and County of San Francisco, Bombardier Transportation (Holdings) USA, Inc., and Factory Mutual Insurance Company which was filed in the United States District Court for the Northern District of California, case number C 04-5307 PJH, and further pursuant to Resolution No. 08-0173; and

WHEREAS, Approval for said Agreement was obtained from the Board of Supervisors pursuant to Resolution INSERT RESOLUTION NUMBER on INSERT DATE; and

ORDINHNCE NO. 266-08 ON November 25,2008

WHEREAS, Contractor represents and warrants that it is qualified to perform the services required by City as set forth under this Contract;

Now, THEREFORE, the parties agree as follows:

## 1. Certification of Funds; Budget and Fiscal Provisions; Termination in the Event of Non-Appropriation

A. This Agreement is subject to the budget and fiscal provisions of the City's Charter. Charges will accrue only after prior written authorization certified by the Controller, and the amount of the City's obligation hereunder shall not at any time exceed the amount certified for the purpose and period stated in such advance authorization.



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- B. This Agreement will terminate without penalty, liability, or expense of any kind to the City at the end of any fiscal year if funds are not appropriated for the next succeeding fiscal year. If funds are appropriated for a portion of the fiscal year, this Agreement will terminate, without penalty, liability, or expense of any kind at the end of the term for which funds are appropriated.
- C. The City has no obligation to make appropriations for this Agreement in lieu of appropriations for new or other agreements. The City budget decisions are subject to the discretion of the Mayor and the Board of Supervisors. The Contractor's assumption of risk of possible non-appropriation is part of the consideration for this Agreement.

THIS SECTION CONTROLS AGAINST ANY AND ALL OTHER PROVISIONS OF THIS AGREEMENT.

## 2. Term of the Agreement

- A. Subject to Section 1, the term of this Agreement shall begin upon the Airport's provision of a notice to proceed and shall continue for a period of five (5) years beginning March 1, 2009, unless terminated sooner as provided in Article 21, Termination for Convenience of this Agreement.
- B. At the end of the initial five (5)-year term, as indentified above, the Airport will extend the contract for an additional three (3)-year term, provided the Contractor meets all contractual obligations under the Contract and the following performance criteria measured ninety (90) days prior to the end of the current contract term: (i) averaged system availability rating of ninety-nine and one-half percent (99.5%) or higher for the prior twelve (12) month period, (ii) verification that all Airport owned spares, tools and equipment, as identified in "Appendix E Spares, Tools, and Equipment" and as amended from time to time during the active term of the Contract, is accounted for and in good working condition, (iii) training certifications are up-to-date for appropriate Contractor's staff, and (iv) the preventative maintenance program meets or exceeds the requirements as stated in "Appendix A, Section B.5 Adherence to Maintenance Schedule."
- C. If the Contractor fails to meet the above criteria, the Airport shall have the option, at its sole discretion, to either extend, modify or terminate the Contract by giving written notice thereof to the Contractor at least ninety (90) days prior to the end of the original or extended term.
- D. Further, at the end of the three (3) year term the Airport reserves the right to extend the contract for two (2) additional option years. The Airport also reserves the right to re-negotiate the contract terms, by reducing in whole or in part the Contractor's scope of services. The Airport will provide the Contractor with written notice of intent to extend and/or re-negotiate the contract terms at least one-hundred and eighty (180) days prior to the start of each option year.
- E. The prices to be paid for each yearly extension shall be those included in the Contractor's Contract Price Proposal, for this Agreement, escalated according to Section 4.1 Economic Price Adjustment of the General Conditions attached hereto, or as amended by any change orders.

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## 3. Effective Date of Agreement

This Agreement shall become effective when the Controller has certified to the availability of funds and the Contractor has been notified in writing.

### 4. Services Contractor Agrees to Perform

The Contractor agrees to perform the services provided for in the General Requirements and Appendix A, Services to be Provided by the Contractor attached hereto and incorporated by reference as though fully set forth herein.

#### 5. Compensation

- A. Compensation shall be made in accordance with the terms and conditions set forth in Article 4.3 of the General Requirements. In no event shall the amount of this Agreement exceed Fifty-six Million Five Hundred Thousand Dollars (\$56,500,000), except as modified pursuant to the terms of this Agreement. The breakdown of costs associated with this Agreement appears in Appendix B, "Calculation of Charges/Determination of Monthly Payments," attached hereto and incorporated by reference as though fully set forth herein.
- B. No charges shall be incurred under this Agreement nor shall any payments become due to the Contractor until reports, services, or both, required under this Agreement are received from Contractor and approved by the AirTrain Manager as being in accordance with this Agreement. The City may withhold payment to Contractor in any instance in which Contractor has failed or refused to satisfy any material obligation provided for under this Agreement.
- C. The Controller is not authorized to pay invoices submitted by the Contractor prior to the Contractor's submission of HRC Progress Payment Form. If the Progress Payment Form is not submitted with the Contractor's invoice, the Controller will notify the department, the Director of HRC and the Contractor of the omission. If the Contractor's failure to provide HRC Progress Payment Form is not explained to the Controller's satisfaction, the Controller will withhold twenty percent (20%) of the payment due pursuant to that invoice until the HRC Progress Payment Form is provided.
- D. Following the City's payment of an invoice, the Contractor has ten (10) days to file an affidavit using the HRC Payment Affidavit verifying that all subcontractors have been paid and specifying the amount.

### 6. Guaranteed Maximum Costs

- A. The City's obligation hereunder shall not at any time exceed the amount certified by the Controller for the purpose and period stated in such certification.
- B. Except as may be provided by laws governing emergency procedures, officers and employees of the City are not authorized to request, and the City is not required to reimburse the Contractor for, Commodities or Services beyond the agreed upon contract scope unless the changed scope is authorized by amendment and approved as required by law.



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- C. Officers and employees of the City are not authorized to offer or promise, nor is the City required to honor, any offered or promised additional funding in excess of the maximum amount of funding for which the contract is certified without certification of the additional amount by the Controller.
- D. The Controller is not authorized to make payments on any contract for which funds have not been certified as available in the budget or by supplemental appropriation.

### 7. Payment; Invoice Format

- A. Invoices furnished by the Contractor under this Agreement must be in a form acceptable to the Controller, and must include a unique invoice number. All amounts paid by the City to the Contractor shall be subject to audit by the City.
- B. Payment shall be made by the City to the Contractor at the address specified in the section entitled "Notices to the Parties."

#### 8. Submitting False Claims; Monetary Penalties

Pursuant to San Francisco Administrative Code §21.35, any contractor, subcontractor or consultant who submits a false claim shall be liable to the City for three (3) times the amount of damages which the City sustains because of the false claim. A contractor, subcontractor, or consultant who submits a false claim shall also be liable to the City for the costs, including attorneys' fees, of a civil action brought to recover any of those penalties or damages, and may be liable to the City for a civil penalty of up to Ten Thousand Dollars (\$10,000) for each false claim. A contractor, subcontractor, or consultant will be deemed to have submitted a false claim to the City if the contractor, subcontractor or consultant: (i) knowingly presents or causes to be presented to an officer or employee of the City a false claim or request for payment or approval; (ii) knowingly makes, uses, or causes to be made or used a false record or statement to get a false claim paid or approved by the City; (iii) conspires to defraud the City by getting a false record or statement to conceal, avoid, or decrease an obligation to pay or transmit money or property to the City; or (v) is a beneficiary of an inadvertent submission of a false claim to the City within a reasonable time after discovery of the false claim.

## 9. Disallowance - Left blank by agreement of the Parties. No state or federal funds involved.

#### 10. Taxes

- A. Payment of any taxes, including possessory interest taxes and California sales and use taxes, levied upon or as a result of this Agreement, or the services delivered pursuant hereto, shall be the obligation of the Contractor.
- B. The Contractor recognizes and understands that this Agreement may create a "possessory interest" for property tax purposes. Generally, such a possessory interest is not created unless the Agreement entitles the Contractor to possession, occupancy, or use of City property for private gain. If such a possessory interest is created, then the following shall apply:

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- The Contractor, on behalf of itself and any permitted successors and assigns, recognizes and understands that the Contractor, and any permitted successors and assigns, may be subject to real property tax assessments on the possessory interest;
- 2) The Contractor, on behalf of itself and any permitted successors and assigns, recognizes and understands that the creation, extension, renewal, or assignment of this Agreement may result in a "change in ownership" for purposes of real property taxes, and therefore may result in a revaluation of any possessory interest created by this Agreement. The Contractor accordingly agrees on behalf of itself and its permitted successors and assigns to report on behalf of the City to the County Assessor the information required by Revenue and Taxation Code section 480.5, as amended from time to time, and any successor provision.
- 3) The Contractor, on behalf of itself and any permitted successors and assigns, recognizes and understands that other events also may cause a change of ownership of the possessory interest and result in the revaluation of the possessory interest. (See, e.g., Rev. & Tax. Code section 64, as amended from time to time). The Contractor accordingly agrees on behalf of itself and its permitted successors and assigns to report any change in ownership to the County Assessor, the State Board of Equalization or other public agency as required by law.
- 4) The Contractor further agrees to provide such other information as may be requested by the City to enable the City to comply with any reporting requirements for possessory interests that are imposed by applicable law.

### **11.** Payment Does Not Imply Acceptance of Work

The granting of any payment by the City, or the receipt thereof by the Contractor, shall in no way lessen the liability of the Contractor to replace unsatisfactory work, equipment, or materials, although the unsatisfactory character of such work, equipment or materials may not have been apparent or detected at the time such payment was made. Materials, equipment, components, or workmanship that does not conform to the requirements of this Agreement may be rejected by the City and in such case must be replaced by the Contractor without delay.

#### **12.** Qualified Personnel

Work under this Agreement shall be performed only by competent personnel under the supervision of and in the employment of the Contractor. The Contractor will comply with the City's reasonable requests regarding assignment of personnel, but all personnel, including those assigned at the City's request, must be supervised by the Contractor. The Contractor shall commit adequate resources to complete the project within the project schedule specified in this Agreement.

## 13. Responsibility for Equipment

- A. The City shall not be responsible for any damage to persons or property as a result of the use, misuse, or failure of any equipment used by the Contractor, or by any of its employees, even though such equipment be furnished, rented, or loaned to the Contractor by the City.
- B. The acceptance or use of such equipment by the Contractor or any of its employees shall be construed to mean that the Contractor accepts full responsibility for and agrees to exonerate, indemnify, defend and save harmless the City from and against any and all claims for any damage



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AGREEMENT Page 5 of 33 or injury of any type arising from the use, misuse or failure of such equipment, whether such damage be to the Contractor, its employees, City employees or third parties, or to property belonging to any of the above.

- C. The Contractor shall be totally responsible for the design and installation of all temporary structures such as shoring that may be required to perform work under this Contract. The Contractor shall also perform its work under this Contract so as not to load or overload any structural, electrical or HVAC System in any way which might endanger its present or future integrity or capacity.
- D. Subject to the Limitation of Liability set forth in Article 17 herein, the Contractor shall be totally responsible for the risk of loss or damage to any property owned by the Commission, its tenants or other third parties arising out of the careless or negligent acts or omissions of the Contractor's officers, agents, employees, or subcontractors. The Contractor shall forthwith repair, replace, and make good any such loss or damage without cost to the Commission or, at the option of the Commission, the Contractor shall reimburse the Commission for the reasonable cost of such repairs and replacements which the Commission elects, in its sole discretion, to perform.
- E. Subject to the limitation of liability set forth in article 17 herein, the Contractor shall be totally responsible for the risk of (i) all claims made by third persons or all fines or penalties assessed by courts or governmental agencies or other entities against the Contractor or the Commission, on account of injuries (including wrongful death), losses and damages, and (ii) all liability of any kind whatsoever, arising or alleged to arise out of or in connection with the willful misconduct or negligent performance of this contract by the Contractor or out of or in connection with the Contractor's operations or presence at or in the vicinity of the Commission's premises (including claims against the Contractor or the Commission for the payment of workers' compensation) whether such fines or penalties are made or assessed and whether such claims for injuries, damages, losses are sustained and liability for them imposed at any time both before and after the completion of the services provided herein.

## 14. Independent Contractor; Payment of Taxes and Other Expenses

#### A. Independent Contractor

1) The Contractor or any agent or employee of the Contractor shall be deemed at all times to be an independent contractor and is wholly responsible for the manner in which it performs the services and work requested by the City under this Agreement. The Contractor or any agent or employee of the Contractor shall not have employee status with the City, nor be entitled to participate in any plans, arrangements, or distributions by the City pertaining to or in connection with any retirement, health or other benefits that the City may offer its employees. The Contractor or any agent or employee of the Contractor is liable for the acts and omissions of itself, its employees, and its agents. The Contractor shall be responsible for all obligations and payments, whether imposed by federal, state or local law, including, but not limited to, FICA, income tax withholdings, unemployment compensation, insurance, and other similar responsibilities related to the Contractor's performing services and work, or any agent or employee of the Contractor providing same. Nothing in this Agreement shall be construed as creating an employment or agency relationship between the City and the Contractor or any agent or employee of the Contractor.

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2) Any terms in this Agreement referring to direction from the City shall be construed as providing for direction as to policy and the result of the Contractor's work only, and not as to the means by which such a result is obtained. The City does not retain the right to control the means or the method by which the Contractor performs work under this Agreement.

## **B.** Payment of Taxes and Other Expenses.

- 1) Should the City, in its discretion, or a relevant taxing authority such as the Internal Revenue Service or the State Employment Development Division, or both, determine that the Contractor is an employee for purposes of collection of any employment taxes, the amounts payable under this Agreement shall be reduced by amounts equal to both the employee and employer portions of the tax due (and offsetting any credits for amounts already paid by the Contractor which can be applied against this liability). The City shall then forward those amounts to the relevant taxing authority.
- 2) Should a relevant taxing authority determine a liability for past services performed by the Contractor for the City, upon notification of such fact by the City, the Contractor shall promptly remit such amount due or arrange with the City to have the amount due withheld from future payments to the Contractor under this Agreement (again, offsetting any amounts already paid by the Contractor which can be applied as a credit against such liability).
- 3) A determination of employment status pursuant to the preceding two paragraphs shall be solely for the purposes of the particular tax in question, and for all other purposes of this Agreement, the Contractor shall not be considered an employee of City. Notwithstanding the foregoing, should any court, arbitrator, or administrative authority determine that the Contractor is an employee for any other purpose, then the Contractor agrees to a reduction in the City's financial liability so that the City's total expenses under this Agreement are not greater than they would have been had the court, arbitrator, or administrative authority determine that the Contractor was not an employee.

### 15. Insurance

- A. Without in any way limiting the Contractor's liability pursuant to the "Indemnification" section of this Agreement, the Contractor must maintain in force, during the full term of the Agreement, insurance in the following amounts and coverages:
  - 1) Workers' Compensation, in statutory amounts, with Employers' Liability Limits not less than \$1,000,000 each accident, injury, or illness; and
  - Commercial General Liability Insurance with limits not less than \$2,000,000 each occurrence Combined Single Limit for Bodily Injury and Property Damage, including Contractual Liability, Personal Injury, Products and Completed Operations; and
  - 3) Commercial Automobile Liability Insurance with limits not less than \$1,000,000 (\$2,000,000 if used on Airfield) each occurrence Combined Single Limit for Bodily Injury and Property Damage, including Owned, Non-Owned and Hired auto coverage, as applicable.
- B. Commercial General Liability and Commercial Automobile Liability Insurance policies must provide the following:



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- 1) Name as Additional Insured the City and County of San Francisco, its Officers, Agents, and Employees.
- 2) That such policies are primary insurance to any other insurance available to the Additional Insureds, with respect to any claims arising out of this Agreement, and that insurance applies separately to each insured against whom claim is made or suit is brought.
- C. All policies shall provide thirty (30) days' advance written notice to City of reduction or nonrenewal of coverages or cancellation of coverages for any reason. Notices shall be sent to the following address:

Lee Mitchell SFO AirTrain Manager AirTrain Administration San Francisco International Airport P.O. Box 8097 San Francisco, CA 94128

Email: lee.mitchell@flysfo.com

- D. Should any of the required insurance be provided under a claims-made form, the Contractor shall maintain such coverage continuously throughout the term of this Agreement and, without lapse, for a period of three (3) years beyond the expiration of this Agreement, to the effect that, should occurrences during the contract term give rise to claims made after expiration of the Agreement, such claims shall be covered by such claims-made policies.
- E. Should any of the required insurance be provided under a form of coverage that includes a general annual aggregate limit or provides that claims investigation or legal defense costs be included in such general annual aggregate limit, such general annual aggregate limit shall be double the occurrence or claims limits specified above.
- F. Should any required insurance lapse during the term of this Agreement, requests for payments originating after such lapse shall not be processed until the City receives satisfactory evidence of reinstated coverage as required by this Agreement, effective as of the lapse date. If insurance is not reinstated, the City may, at its sole option, terminate this Agreement effective on the date of such lapse of insurance.
- G. Before commencing any operations under this Agreement, the Contractor shall do the following: (i) furnish to the City certificates of insurance and additional insured policy endorsements with insurers with ratings comparable to A-, VIII or higher, that are authorized to do business in the State of California, and that are satisfactory to the City, in form evidencing all coverages set forth above, and (ii) furnish complete copies of policies promptly upon City request. Failure to maintain insurance shall constitute a material breach of this Agreement.
- H. Approval of the insurance by the City shall not relieve or decrease the liability of the Contractor hereunder.

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- I. If a subcontractor will be used to complete any portion of this agreement, the Contractor shall ensure that the subcontractor shall provide all necessary insurance and shall name the City and County of San Francisco, its officers, agents and employees and the Contractor listed as additional insureds.
- J. If the Contractor is unable to continue to provide the required insurance coverage as outlined in Article 15.A of this Agreement at the expiration of the initial five (5) year term, the Contractor agrees to pay to the City and County of San Francisco Four Hundred Thousand Dollars (\$400,000) in annual funding for the purchase of insurance coverage as outlined in Section 15.A of this agreement. Payment to the City and County of San Francisco shall be prior to the expiration date of the initial five (5) year term of the agreement. Said funding will be used toward the purchase of insurance as outlined in Section 15 of this agreement, with any required amount over \$400,000 to be the responsibility of the City. The City will refund to Contractor any part of the \$400,000 that is not required to fund the insurance. The City will reserve the right to procure the insurance or delegate the procurement responsibility to the Contractor. The City will reserve the right to modify the insurance requirement(s) outlined in Section 15 of this agreement in consultation with Contractor in the event the Contractor annual funding contribution of Four Hundred Thousand Dollars (\$400,000) is inadequate to procure historical limits and coverage.

### 16. Indemnification

- A. The Contractor shall indemnify and save harmless the City and its officers, agents and employees from, and, if requested, shall defend them against any and all loss, cost, damage, injury, liability, and claims thereof for injury to or death of a person, including employees of the Contractor or loss of or damage to property, to the extent arising from the Contractor's negligent performance of this Agreement, including, but not limited to, the Contractor's use of facilities or equipment provided by the City or others. The foregoing indemnity shall include, without limitation, reasonable fees of attorneys, consultants and experts and related costs and the City's costs of investigating any claims against the City.
- B. In addition to the Contractor's obligation to indemnify the City, the Contractor specifically acknowledges and agrees that it has an immediate and independent obligation to defend the City from any claim arising from the Contractor's negligent performance of this Agreement and which actually or potentially falls within this indemnification provision, even if the allegations are or may be groundless, false or fraudulent, which obligation arises at the time such claim is tendered to the Contractor by the City and continues at all times thereafter.
- C. The Contractor shall indemnify and hold the City harmless from all loss and liability, including attorneys' fees, court costs and all other litigation expenses for any infringement of the patent rights, copyright, trade secret or any other proprietary right or trademark, and all other intellectual property claims of any person or persons in consequence of the use by the City, or any of its officers or agents, of articles or services to be supplied by the Contractor in the performance of this Agreement.

## 17. Incidental and Consequential Damages & Limitation of Contractor's Liability

A. The Contractor shall be responsible for incidental and/or consequential damages resulting in whole or in part from the Contractor's performance of services under this Agreement. However, the Contractor will not be liable for any claim for incidental and/or consequential damages from

AGREEMENT Page 9 of 33 the Airport, Airport tenants, and/or AirTrain passengers for loss of opportunities, revenues, and/or profits. The Contractor's liability for incidental and/or consequential damages will be limited, in the aggregate, to One Million Dollars (\$1,000,000). The Contractor agrees that it will be responsible for any claim initiated by the Airport for costs incurred to operate bus services resulting from a loss of use of the AirTrain for any single incident exceeding four (4) hours to the extent arising from the Contractor's performance of this Agreement and that such claim is not subject to the One Million Dollar (\$1,000,000) cap on incidental and/or consequential damages. Further, except claims for personal injury, including wrongful death, and the costs of repair or replacement of damaged property of third parties, and costs of repair or replacement of damaged property of the Contractor's liability under this agreement will be limited, in the aggregate, to Ten Million Dollars (\$10,000,000).

B. To the extent of a failure caused from the Contractor's performance of services under this Agreement that renders the system unavailable for revenue service for more than fifteen (15) consecutive days, the Airport may suspend payment to the Contractor. The Airport shall resume payment to the Contractor once the system is returned to revenue service; however, the Airport shall not be responsible for reimbursing any cost or expense whatsoever to the Contractor during the time that the system was unavailable. Any moneys withheld pursuant to this paragraph are subject to the Ten Million Dollar (\$10,000,000) cap on the Contractor's liability identified in Section 17.A. above.

#### 18. Liability of City

CITY'S PAYMENT OBLIGATIONS UNDER THIS AGREEMENT SHALL BE LIMITED TO THE PAYMENT OF THE COMPENSATION PROVIDED FOR IN SECTION 5 OF THIS AGREEMENT. NOTWITHSTANDING ANY OTHER PROVISION OF THIS AGREEMENT, IN NO EVENT SHALL CITY BE LIABLE, REGARDLESS OF WHETHER ANY CLAIM IS BASED ON CONTRACT OR TORT, FOR ANY SPECIAL, CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, ARISING OUT OF OR IN CONNECTION WITH THIS AGREEMENT OR THE SERVICES PERFORMED IN CONNECTION WITH THIS AGREEMENT.

#### 19. Liquidated Damages - Left blank by agreement of the Parties.

#### 20. Default; Remedies

- A. Each of the following shall constitute an event of default ("Event of Default") under this Agreement:
  - 1) The Contractor fails or refuses to perform or observe any term, covenant, or condition contained in any of the following Sections of this Agreement: 8, 10, 15, 24, 30, 37, 53, 55, 57, or 58.
  - 2) The Contractor fails or refuses to perform or observe any other term, covenant, or condition contained in this Agreement, and such default continues for a period of ten (10) days after written notice thereof from the City to the Contractor.

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- 3) The Contractor (i) is generally not paying its debts as they become due, (ii) files, or consents by answer or otherwise to the filing against it of, a petition for relief or reorganization or arrangement or any other petition in bankruptcy or for liquidation or to take advantage of any bankruptcy, insolvency or other debtors' relief law of any jurisdiction, (iii) makes an assignment for the benefit of its creditors, (iv) consents to the appointment of a custodian, receiver, trustee or other officer with similar powers of the Contractor or of any substantial part of the Contractor's property or (v) takes action for the purpose of any of the foregoing.
- 4) A court or government authority enters an order (i) appointing a custodian, receiver, trustee or other officer with similar powers with respect to the Contractor or with respect to any substantial part of the Contractor's property, (ii) constituting an order for relief or approving a petition for relief or reorganization or arrangement or any other petition in bankruptcy or for liquidation or to take advantage of any bankruptcy, insolvency or other debtors' relief law of any jurisdiction or (iii) ordering the dissolution, winding-up or liquidation of the Contractor.
- B. The Contractor shall first be given an opportunity to cure any Event of Default. The Contractor shall have ten (10) days in which to cure the Event of Default or propose a plan for cure if a ten (10) day period is not a reasonable time to cure. If the Contractor fails to cure the Event of Default or if the City is not satisfied with the Contractor's proposed plan for curing the Default, the City shall have the right to exercise its legal and equitable remedies, including, without limitation, the right to terminate this Agreement or to seek specific performance of all or any part of this Agreement. In addition, if the Contractor is unable to cure the Event of Default as set forth above, the City shall have the right (but no obligation) to cure (or cause to be cured) any Event of Default; the Contractor shall pay to the City on demand all costs and expenses incurred by the City in effecting such cure, with interest thereon from the date of incurrence at the maximum rate then permitted by law. The City shall have the right to offset from any amounts due to the Contractor under this Agreement or any other agreement between the City and the Contractor all damages, losses, costs or expenses incurred by the City as a result of such Event of Default and any liquidated damages due from the Contractor pursuant to the terms of this Agreement or any other agreement.
- C. All remedies provided for in this Agreement may be exercised individually or in combination with any other remedy available hereunder or under applicable laws, rules and regulations. The exercise of any remedy shall not preclude or in any way be deemed to waive any other remedy.

## 21. Termination for Convenience

- A. The City shall have the option, in its sole discretion, to terminate this Agreement, at any time during the term hereof, for convenience and without cause. The City shall exercise this option by giving the Contractor at least thirty (30) days written notice of termination. The notice shall specify the date on which termination shall become effective.
- B. Upon receipt of the notice, the Contractor shall commence and perform, with diligence, all actions necessary on the part of the Contractor to effect the termination of this Agreement on the date specified by the City and to minimize the liability of the Contractor and the City to third parties as a result of termination. All such actions shall be subject to the prior approval of the City. Such actions shall include, without limitation:



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- 1) Halting the performance of all services and other work under this Agreement on the date(s) and in the manner specified by the City.
- 2) Not placing any further orders or subcontracts for materials, services, equipment, or other items.
- 3) Terminating all existing orders and subcontracts.
- 4) At the City's direction, assigning to the City any or all of the Contractor's right, title, and interest under the orders and subcontracts terminated. Upon such assignment, the City shall have the right, in its sole discretion, to settle or pay any or all claims arising out of the termination of such orders and subcontracts.
- 5) Subject to the City's approval, settling all outstanding liabilities and all claims arising out of the termination of orders and subcontracts.
- 6) Completing performance of any services or work that the City designates to be completed prior to the date of termination specified by the City.
- 7) Taking such action as may be necessary, or as the City may direct, for the protection and preservation of any property related to this Agreement which is in the possession of the Contractor and in which the City has or may acquire an interest.
- C. Within thirty (30) days after the specified termination date, the Contractor shall submit to the City an invoice, which shall set forth each of the following as a separate line item:
  - The reasonable cost to the Contractor, including profit as set forth in subsection 2) below, for all services and other work the City directed the Contractor to perform prior to the specified termination date, for which services or work the City has not already tendered payment. Reasonable costs may include a reasonable allowance for actual overhead, not to exceed a total of ten percent (10%) of Contractor's direct costs for services or other work. Any overhead allowance shall be separately itemized. The Contractor may also recover the reasonable cost of preparing the invoice.
  - 2) A reasonable allowance for profit on the cost of the services and other work described in the immediately preceding subsection 1), provided that the Contractor can establish, to the satisfaction of the City, that the Contractor would have made a profit had all services and other work under this Agreement been completed, and provided further, that the profit allowed shall in no event exceed ten percent (10%) of such cost.
  - 3) The reasonable cost to the Contractor of handling material or equipment returned to the vendor, delivered to the City or otherwise disposed of as directed by the City.
  - 4) A deduction for the cost of materials to be retained by the Contractor, amounts realized from the sale of materials and not otherwise recovered by or credited to the City, and any other appropriate credits to the City against the cost of the services or other work.
- D. In no event shall the City be liable for costs incurred by the Contractor or any of its subcontractors after the termination date specified by the City, except for those costs specifically

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enumerated and described in the immediately preceding subsection C, which shall also include post-termination employee salaries and post-termination administrative expenses and overhead, in accordance with but not exceeding those amounts required to be paid by the Contractor to its employees, as per the Contractor's Collective Bargaining Agreement and the Contractor's employee severance program. Such non-recoverable costs include, but are not limited to, attorneys' fees or other costs relating to the prosecution of a claim or lawsuit, prejudgment interest, or any other expense which is not reasonable or authorized under such subsection C.

- E. In arriving at the amount due to the Contractor under this Section, the City may deduct: (i) all payments previously made by the City for work or other services covered by the Contractor's final invoice; (ii) any claim which the City may have against the Contractor in connection with this Agreement; (iii) any invoiced costs or expenses excluded pursuant to the immediately preceding subsection D; and (iv) in instances in which, in the opinion of the City, the cost of any service or other work performed under this Agreement is excessively high due to costs incurred to remedy or replace defective or rejected services or other work, the difference between the invoiced amount and the City's estimate of the reasonable cost of performing the invoiced services or other work in compliance with the requirements of this Agreement.
- F. The City's payment obligation under this Section shall survive termination of this Agreement.

#### 22. Rights and Duties upon Termination or Expiration

- A. This Section and the following Sections of this Agreement shall survive termination or expiration of this Agreement: 8 through 11, 13 through 18, 24, 26, 27, 28, 48, through 52, 56, and 57.
- B. Subject to the immediately preceding subsection A, upon termination of this Agreement prior to expiration of the term specified in Section 2, this Agreement shall terminate and be of no further force or effect. The Contractor shall transfer title to the City, and deliver in the manner, at the times, and to the extent, if any, directed by the City, any work in progress, completed work, supplies, equipment, and other materials produced as a part of, or acquired in connection with the performance of this Agreement, and any completed or partially completed work which, if this Agreement had been completed, would have been required to be furnished to the City. This subsection shall survive termination of this Agreement.

#### 23. Conflict of Interest

Through its execution of this Agreement, the Contractor acknowledges that it is familiar with the provision of Section 15.103 of the City's Charter, Article III, Chapter 2 of the City's Campaign and Governmental Conduct Code, and Section 87100 et seq. and Section 1090 et seq. of the Government Code of the State of California, and certifies that it does not know of any facts which constitutes a violation of said provisions and agrees that it will immediately notify the City if it becomes aware of any such fact during the term of this Agreement.

#### 24. Proprietary or Confidential Information

The Parties hereto understand and agree that, in the performance of the work or services under this Agreement or in contemplation thereof, one Party may have access to private or confidential information which may be owned or controlled by the other Party and that such information may contain proprietary or confidential details, the disclosure of which to third parties may be damaging to



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AGREEMENT Page 13 of 33 the owner of the information. The Parties therefore agree that all information disclosed by one Party to the other shall be held in confidence and used only in performance of the Agreement. The Parties shall exercise the same reasonable standard of care to protect such information as they would use to protect their own proprietary data.

#### 25. Notices to the Parties

Unless otherwise indicated elsewhere in this Agreement, all written communications sent by the parties may be by U.S. mail, e-mail or by fax, and shall be addressed as follows:

To City:

Lee Mitchell SFO AirTrain Manager AirTrain Administration San Francisco International Airport P.O. Box 8097 San Francisco, CA 94128 FAX: (650) 821-7664 Email: lee.mitchell@flysfo.com

To Contractor: Lee LayPort SYSTEMS – General Manager Western Region Bombardier Transportation (Holdings) USA Inc. P.O. Box 281317 San Francisco, CA 94128-7343 FAX: (650) 821-7371 Email: lee.layport@us.transport.bombardier.com

Any notice of default must be sent by registered mail.

#### 26. Ownership of Results

- A. Any drawings, plans, specifications, blueprints, studies, reports, memoranda, computation sheets, computer files and media or other documents ("Information") prepared by the Contractor or its subcontractors in connection with services to be performed under this Agreement, shall become the property of and will be transmitted to the City. However, it is understood that the Contractor retains the right in the intellectual property contained in the Information and may use the Information for any purpose whatsoever, whether related to this Agreement or otherwise. It is also understood that any and all proprietary information of the Contractor, as defined under the Base Contract, shall be included in the escrow agreement previously agreed upon between the City and the Contractor for a period of twenty (20) years from the date of execution of such escrow agreement.
- B. The Commission shall have the non-exclusive right to use or permit the use of the Information only for the sole purpose of operating and maintaining the System, without additional compensation. The obligations of confidentiality set forth in Article 24.A above shall apply to the Commission's use of these materials.
- C. Proprietary software for products, components, subsystems and other items shall be protected and restricted as provided herein. All "proprietary" Software shall be provided to a Trustee under a



Trust Agreement entered into by the Commission, the Contractor, and the Trustee. The basic terms of said Trust Agreement shall be as follows:

- 1) The Trustee shall be a trust company qualified to do business in California or a bank authorized to engage in a trust business in California. The bank or trust company shall be mutually acceptable to both the Commission and the Contractor.
- 2) All proprietary Software shall be placed with the Trustee for safekeeping.
- 3) If the Contract is terminated for default in accordance with the General Conditions herein, the Trustee, upon receipt of written notice from the Commission shall turn over to the Commission all proprietary software in its possession, and which has not already been deposited into escrow under the original Trust Agreement, within a sixty (60)-day period from the date of receipt of such notice.
- 4) At such time the proprietary Software is turned over to the Commission by the Trustee, the Commission shall have the right and license to use said Software without restrictions for the System and any future re-supply, expansion, or extension of the System. However, the Commission may not sell said proprietary Software or allow any party to use same for any other project without the Contractor's written consent. The Contractor shall continue to have the full and complete right to use any and all duplicates or other originals of said Software in any manner it chooses and without restriction.
- 5) The Trust Agreement shall automatically terminate after twenty (20) years and all such proprietary Software shall be turned over to the Commission. Upon termination of the Trust Agreement, the Commission shall have the right and license to utilize the proprietary Software for its own use only for the Automated Rail Transit (ART) and its expansion but not for the purposes of building another separate ART. However, title to any designs shall remain with the Contractor.
- D. Subject to the provisions regarding the use of the materials stated in paragraph 26.C above, all materials to become part of the System including but not limited to, spare parts, tools, equipment, expendables, and consumables inventory shall be and become the property of the Commission upon delivery or upon being especially adapted for use in or as part of the System, whichever may first occur.
- E. The Contractor shall promptly furnish to the Commission such bills of sale and other instruments as may be required by it, properly executed, acknowledged and delivered, assuring to it title to such materials, free of encumbrances and shall mark or otherwise identify all such materials as the property of the Commission.

#### 27. Copyright of Original Works

If, in connection with services performed under this Agreement, the Contractor or its subcontractors create artwork, copy, posters, billboards, photographs, videotapes, audiotapes, systems designs, software, reports, diagrams, surveys, blueprints, source codes or any other original works of authorship ("Works"), such Works shall not be considered works for hire as it is defined under Title 17 of the United States Code, rather such Works shall be considered instruments of service of the



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Contractor and the Contractor shall grant to the City a non-exclusive, royalty-free license to use the Contractor's Works. It is expressly agreed that any such use of the Contractor's Works by the City shall be limited to the sole purpose of operating and maintaining the System. All copyrights in these Works shall remain with the Contractor.

#### 28. Audit and Inspection of Records

The Contractor agrees to maintain and make available to the City, during regular business hours, accurate books, and accounting records relating in any way to its work under this Agreement. The Contractor will permit City to audit, examine, and make excerpts and transcripts from such books and records, and to make audits of all invoices, materials, payrolls, records or personnel and other data related to all other matters covered by this Agreement, whether funded in whole or in part under this Agreement. The Contractor shall maintain such data and records in an accessible location and condition for a period of not less than five (5) years after final payment under this Agreement or until after final audit has been resolved, whichever is later. The State of California or any federal agency having an interest in the subject matter of this Agreement shall have the same rights conferred upon the City by this Section.

#### 29. Subcontracting

The Contractor is prohibited from subcontracting this Agreement or any part of it unless such subcontracting is first approved by the City in writing. Neither party shall, on the basis of this Agreement, contract on behalf of or in the name of the other party. An agreement made in violation of this provision shall confer no rights on any party and shall be null and void.

#### 30. Assignment

The services to be performed by the Contractor are personal in character and neither this Agreement nor any duties or obligations hereunder may be assigned or delegated by the Contractor unless first approved by the City by written instrument executed and approved in the same manner as this Agreement.

#### 31. Non-Waiver of Rights

The omission by either party at any time to enforce any default or right reserved to it, or to require performance of any of the terms, covenants, or provisions hereof by the other party at the time designated, shall not be a waiver of any such default or right to which the party is entitled, nor shall it in any way affect the right of the party to enforce such provisions thereafter.

#### 32. Earned Income Credit (EIC) Forms

- A. Administrative Code section 12O requires that employers provide their employees with IRS Form W-5 (The Earned Income Credit Advance Payment Certificate) and the IRS EIC Schedule, as set forth below. Employers can locate these forms at the IRS Office, on the Internet, or anywhere that Federal Tax Forms can be found.
- B. The Contractor shall provide EIC Forms to each Eligible Employee at each of the following times: (i) within thirty (30) days following the date on which this Agreement becomes effective (unless Contractor has already provided such EIC Forms at least once during the calendar year in

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which such effective date falls); (ii) promptly after any Eligible Employee is hired by the Contractor; and (iii) annually between January 1 and January 31 of each calendar year during the term of this Agreement.

- C. Failure to comply with any requirement contained in subparagraph A of this Section shall constitute a material breach by the Contractor of the terms of this Agreement. If, within thirty (30) days after the Contractor receives written notice of such a breach, the Contractor fails to cure such breach or, if such breach cannot reasonably be cured within such period of thirty (30) days, the Contractor fails to commence efforts to cure within such period or thereafter fails to diligently pursue such cure to completion, the City may pursue any rights or remedies available under this Agreement or under applicable law.
- D. Any Subcontract entered into by the Contractor shall require the subcontractor to comply, as to the subcontractor's Eligible Employees, with each of the terms of this section.
- E. Capitalized terms used in this Section and not defined in this Agreement shall have the meanings assigned to such terms in Section 120 of the San Francisco Administrative Code.

#### 33. Local Business Enterprise Utilization; Liquidated Damages

#### A. The LBE Ordinance

The Contractor, shall comply with all the requirements of the Local Business Enterprise and Non-Discrimination in Contracting Ordinance set forth in Chapter 14B of the San Francisco Administrative Code as it now exists or as it may be amended in the future (collectively the "LBE Ordinance"), provided such amendments do not materially increase the Contractor's obligations or liabilities, or materially diminish the Contractor's rights, under this Agreement. Such provisions of the LBE Ordinance are incorporated by reference and made a part of this Agreement as though fully set forth in this section. The Contractor's willful failure to comply with any applicable provisions of the LBE Ordinance is a material breach of the Contractor's obligations under this Agreement and shall entitle the City, subject to any applicable notice and cure provisions set forth in this Agreement, to exercise any of the remedies provided for under this Agreement, under the LBE Ordinance or otherwise available at law or in equity, which remedies shall be cumulative unless this Agreement expressly provides that any remedy is exclusive. In addition, the Contractor shall comply fully with all other applicable local, state and federal laws prohibiting discrimination and requiring equal opportunity in contracting, including subcontracting.

#### **B.** Compliance and Enforcement

#### 1) Enforcement

a) If the Contractor willfully fails to comply with any of the provisions of the LBE Ordinance, the rules and regulations implementing the LBE Ordinance, or the provisions of this Agreement pertaining to LBE participation, the Contractor shall be liable for liquidated damages in an amount equal to the Contractor's net profit on this Agreement, or ten percent (10%) of the total amount of this Agreement, or One Thousand Dollars (\$1,000), whichever is greatest. The Director of the City's Human Rights Commission or any other public official authorized to enforce the LBE Ordinance (separately and



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collectively, the "Director of HRC") may also impose other sanctions against the Contractor authorized in the LBE Ordinance, including declaring the Contractor to be irresponsible and ineligible to contract with the City for a period of up to five (5) years or revocation of the Contractor's LBE certification. The Director of HRC will determine the sanctions to be imposed, including the amount of liquidated damages, after investigation pursuant to Administrative Code §14B.17.

- b) By entering into this Agreement, the Contractor acknowledges and agrees that any liquidated damages assessed by the Director of the HRC shall be payable to the City upon demand. The Contractor further acknowledges and agrees that any liquidated damages assessed may be withheld from any monies due to the Contractor on any contract with the City.
- c) The Contractor agrees to maintain records necessary for monitoring its compliance with the LBE Ordinance for a period of three (3) years following termination or expiration of this Agreement, and shall make such records available for audit and inspection by the Director of HRC or the Controller upon request.
- 2) Subcontracting Goals
  - a) The LBE subcontracting participation goal for this contract is five percent (5%). The Contractor shall fulfill the subcontracting commitment made in its bid or proposal. Each invoice submitted to the City for payment shall include the information required in the HRC Progress Payment Form and the HRC Payment Affidavit. Failure to provide the HRC Progress Payment Form and the HRC Payment Affidavit with each invoice submitted by the Contractor shall entitle the City to withhold twenty percent (20%) of the amount of that invoice until the HRC Payment Form and the HRC Subcontractor Payment Affidavit are provided by the Contractor.
  - b) The Contractor shall not participate in any back contracting to the Contractor or lowerticr subcontractors, as defined in the LBE Ordinance, for any purpose inconsistent with the provisions of the LBE Ordinance, its implementing rules and regulations, or this Section.

#### 3) Subcontract Language Requirements

- a) The Contractor shall incorporate the LBE Ordinance into each subcontract made in the fulfillment of the Contractor's obligations under this Agreement and require each subcontractor to agree and comply with provisions of the ordinance applicable to subcontractors.
- b) The Contractor shall include in all subcontracts with LBEs made in fulfillment of the Contractor's obligations under this Agreement, a provision requiring the Contractor to compensate any LBE subcontractor for damages for breach of contract or liquidated damages equal to five percent (5%) of the subcontract amount, whichever is greater, if the Contractor does not fulfill its commitment to use the LBE subcontractor as specified in the bid or proposal, unless the Contractor received advance approval from the Director of HRC and contract awarding authority to substitute subcontractors or to otherwise

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modify the commitments in the bid or proposal. Such provisions shall also state that it is enforceable in a court of competent jurisdiction.

c) Subcontracts shall require the subcontractor to maintain records necessary for monitoring its compliance with the LBE Ordinance for a period of three (3) years following termination of this contract and to make such records available for audit and inspection by the Director of HRC or the Controller upon request.

#### 4) Payment of Subcontractors

- a) The Contractor shall pay its subcontractors within three (3) working days after receiving payment from the City unless the Contractor notifies the Director of HRC in writing within ten (10) working days prior to receiving payment from the City that there is a bona fide dispute between the Contractor and its subcontractor and the Director waives the three-day payment requirement, in which case the Contractor may withhold the disputed amount but shall pay the undisputed amount.
- b) The Contractor further agrees, within ten (10) working days following receipt of payment from the City, to file the HRC Payment Affidavit with the Controller, under penalty of perjury, that the Contractor has paid all subcontractors. The affidavit shall provide the names and addresses of all subcontractors and the amount paid to each. Failure to provide such affidavit may subject the Contractor to enforcement procedure under Administrative Code §14B.17.

#### 34. Nondiscrimination; Penalties

#### A. Contractor Shall Not Discriminate

In the performance of this Agreement, the Contractor agrees not to discriminate against any employee, City and County employee working with such Contractor or subcontractor, applicant for employment with such Contractor or subcontractor, or against any person seeking accommodations, advantages, facilities, privileges, services, or membership in all business, social, or other establishments or organizations, on the basis of the fact or perception of a person's race, color, creed, religion, national origin, ancestry, age, height, weight, sex, sexual orientation, gender identity, domestic partner status, marital status, disability or Acquired Immune Deficiency Syndrome or HIV status (AIDS/HIV status), or association with members of such protected classes, or in retaliation for opposition to discrimination against such classes.

#### **B.** Subcontracts

The Contractor shall incorporate by reference in all subcontracts the provisions of \$\$12B.2 (a), 12B.2(c)-(k), and 12C.3 of the San Francisco Administrative Code (copies of which are available from the City) and shall require all subcontractors to comply with such provisions. The Contractor's failure to comply with the obligations in this subsection shall constitute a material breach of this Agreement.

#### **C.** Nondiscrimination in Benefits



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AGREEMENT Page 19 of 33 Contract No. 8838 Issued for Signature 092908 The Contractor does not as of the date of this Agreement and will not during the term of this Agreement, in any of its operations in San Francisco, on real property owned by San Francisco, or where work is being performed for the City elsewhere in the United States, discriminate in the provision of bereavement leave, family medical leave, health benefits, membership or membership discounts, moving expenses, pension and retirement benefits or travel benefits, as well as any benefits other than the benefits specified above, between employees with domestic partners and employees with spouses, and/or between the domestic partners and spouses of such employees, where the domestic partnership has been registered with a governmental entity pursuant to state or local law authorizing such registration, subject to the conditions set forth in §12B.2(b) of the San Francisco Administrative Code.

#### **D.** Condition to Contract

As a condition to this Agreement, the Contractor shall execute the "Chapter 12B Declaration: Nondiscrimination in Contracts and Benefits" form (form HRC-12B-101) with supporting documentation and secure the approval of the form by the San Francisco Human Rights Commission.

#### E. Incorporation of Administrative Code Provisions by Reference

The provisions of Chapters 12B and 12C of the San Francisco Administrative Code are incorporated in this Section by reference and made a part of this Agreement as though fully set forth herein. The Contractor shall comply fully with and be bound by all of the provisions that apply to this Agreement under such Chapters, including but not limited to the remedies provided in such Chapters. Without limiting the foregoing, the Contractor understands that pursuant to §§12B.2 (h) and 12C.3 (g) of the San Francisco Administrative Code, a penalty of Fifty Dollars (\$50) for each person for each calendar day during which such person was discriminated against in violation of the provisions of this Agreement may be assessed against the Contractor and/or deducted from any payments due the Contractor.

#### 35. MacBride Principles—Northern Ireland

Pursuant to San Francisco Administrative Code §12F.5, the City and County of San Francisco urges companies doing business in Northern Ireland to move towards resolving employment inequities, and encourages such companies to abide by the MacBride Principles. The City and County of San Francisco urges San Francisco companies to do business with corporations that abide by the MacBride Principles. By signing below, the person executing this agreement on behalf of the Contractor acknowledges and agrees that he or she has read and understood this section.

## 36. Tropical Hardwood and Virgin Redwood Ban

Pursuant to §804(b) of the San Francisco Environment Code, the City and County of San Francisco urges Contractors not to import, purchase, obtain, or use for any purpose, any tropical hardwood, tropical hardwood wood product, virgin redwood or virgin redwood wood product.

#### 37. Drug-Free Workplace Policy

The Contractor acknowledges that pursuant to the Federal Drug-Free Workplace Act of 1989, the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is

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prohibited on City premises. The Contractor agrees that any violation of this prohibition by the Contractor, its employees, agents or assigns will be deemed a material breach of this Agreement.

#### 38. Resource Conservation

Chapter 5 of the San Francisco Environment Code ("Resource Conservation") is incorporated herein by reference. Failure by the Contractor to comply with any of the applicable requirements of Chapter 5 will be deemed a material breach of contract.

#### 39. Compliance with Americans with Disabilities Act

The Contractor acknowledges that, pursuant to the Americans with Disabilities Act (ADA), programs, services and other activities provided by a public entity to the public, whether directly or through a Contractor, must be accessible to the disabled public. The Contractor shall provide the services specified in this Agreement in a manner that complies with the ADA and any and all other applicable federal, state and local disability rights legislation. The Contractor agrees not to discriminate against disabled persons in the provision of services, benefits or activities provided under this Agreement and further agree that any violation of this prohibition on the part of the Contractor, its employees, agents, or assigns will constitute a material breach of this Agreement.

#### 40. Sunshine Ordinance

In accordance with San Francisco Administrative Code §67.24(e), contracts, contractors' bids, responses to solicitations and all other records of communications between the City and persons or firms seeking contracts, shall be open to inspection immediately after a contract has been awarded. Nothing in this provision requires the disclosure of a private person or organization's net worth or other proprietary financial data submitted for qualification for a contract or other benefit until and unless that person or organization is awarded the contract or benefit. Information provided which is covered by this paragraph will be made available to the public upon request.

#### 41. Public Access to Meetings and Records

If the Contractor receives a cumulative total per year of at least Two Hundred Fifty Thousand Dollars (\$250,000) in City funds or City-administered funds and is a non-profit organization as defined in Chapter 12L of the San Francisco Administrative Code, the Contractor shall comply with and be bound by all the applicable provisions of that Chapter. By executing this Agreement, the Contractor agrees to open its meetings and records to the public in the manner set forth in §§12L.4 and 12L.5 of the Administrative Code. The Contractor further agrees to make-good faith efforts to promote community membership on its Board of Directors in the manner set forth in §12L.6 of the Administrative Code. The Contractor acknowledges that its material failure to comply with any of the provisions of this paragraph shall constitute a material breach of this Agreement. The Contractor further acknowledges that such material breach of the Agreement shall be grounds for the City to terminate and/or not renew the Agreement, partially or in its entirety.

#### 42. Limitations on Contributions

Through execution of this Agreement, the Contractor acknowledges that it is familiar with section 1.126 of the City's Campaign and Governmental Conduct Code, which prohibits any person who contracts with the City for the rendition of personal services, for the furnishing of any material,

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supplies or equipment, for the sale or lease of any land or building, or for a grant, loan or loan guarantee, from making any campaign contribution to (i) an individual holding a City elective office if the contract must be approved by the individual, a board on which that individual serves, or a board on which an appointee of that individual serves, (ii) a candidate for the office held by such individual, or (iii) a committee controlled by such individual, at any time from the commencement of negotiations for the contract until the later of either the termination of negotiations for such contract or six (6) months after the date the contract is approved. The Contractor acknowledges that the foregoing restriction applies only if the contract or a combination or series of contracts approved by the same individual or board in a fiscal year have a total anticipated or actual value of Fifty Thousand Dollars (\$50,000) or more. The Contractor further acknowledges that the prohibition on contributions applies to each prospective party to the contract; each member of Contractor's board of directors; Contractor's chairperson, chief executive officer, chief financial officer and chief operating officer; any person with an ownership interest of more than twenty (20) percent in the Contractor; any subcontractor listed in the bid or contract; and any committee that is sponsored or controlled by the Contractor, Additionally, the Contractor acknowledges that the Contractor must inform each of the persons described in the preceding sentence of the prohibitions contained in Section 1.126.

- 43. Requiring Minimum Compensation for Covered Employees This section omitted pursuant to San Francisco Administrative Code Chapter 12P, section 12P.2(e)(4), exempting contracts entered into pursuant to a settlement of a legal proceeding.
- 44. Requiring Health Benefits for Covered Employees This section omitted pursuant to San Francisco Administrative Code Chapter 12Q, section 12Q.2.4(b)(3), exempting contracts entered into pursuant to a settlement of a legal proceeding.
  45. First Source Hiring Program

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A. Incorporation of Administrative Code Provisions by Reference

The provisions of Chapter 83 of the San Francisco Administrative Code are incorporated in this Section by reference and made a part of this Agreement as though fully set forth herein. The Contractor shall comply fully with, and be bound by, all of the provisions that apply to this Agreement under such Chapter, including but not limited to the remedies provided therein. Capitalized terms used in this Section and not defined in this Agreement shall have the meanings assigned to such terms in Chapter 83.

**B.** First Source Hiring Agreement

As an essential term of, and consideration for, any contract or property contract with the City, not exempted by the FSHA, the Contractor shall enter into a first source hiring agreement ("agreement") with the City, on or before the effective date of the contract or property contract. Contractors shall also enter into an agreement with the City for any other work that it performs in the City. Such agreement shall:

1) Set appropriate hiring and retention goals for entry level positions. The employer shall agree to achieve these hiring and retention goals, or, if unable to achieve these goals, to establish good faith efforts as to its attempts to do so, as set forth in the agreement. The agreement shall take into consideration the employer's participation in existing job training, referral, and/or brokerage programs. Within the discretion of the FSHA, subject to appropriate modifications, participation in such programs may be certified as meeting the requirements of

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this Chapter. Failure either to achieve the specified goal or to establish good faith efforts will constitute noncompliance and will subject the employer to the provisions of Section 83.10 of this Chapter.

2) Set first source interviewing, recruitment and hiring requirements, which will provide the San Francisco Workforce Development System with the first opportunity to provide qualified economically disadvantaged individuals for consideration for employment for entry level positions. Employers shall consider all applications of qualified economically disadvantaged individuals referred by the System for employment; provided however, if the employer utilizes nondiscriminatory screening criteria, the employer shall have the sole discretion to interview and/or hire individuals referred or certified by the San Francisco Workforce Development System as being qualified economically disadvantaged individuals. The duration of the first source interviewing requirement shall be determined by the FSHA and shall be set forth in each agreement, but shall not exceed ten (10) days. During that period, the employer may publicize the entry level positions in accordance with the agreement. A need for urgent or temporary hires must be evaluated, and appropriate provisions for such a situation must be made in the agreement.

3) Set appropriate requirements for providing notification of available entry level positions to the San Francisco Workforce Development System so that the System may train and refer an adequate pool of qualified economically disadvantaged individuals to participating employers. Notification should include such information as employment needs by occupational title, skills, and/or experience required, the hours required, wage scale and duration of employment, identification of entry level and training positions, identification of English language proficiency requirements, or absence thereof, and the projected schedule and procedures for hiring for each occupation. Employers should provide both long-term job need projections and notice before initiating the interviewing and hiring process. These notification requirements will take into consideration any need to protect the employer's proprietary information.

4) Set appropriate record keeping and monitoring requirements. The First Source Hiring Administration shall develop easy-to-use forms and record keeping requirements for documenting compliance with the agreement. To the greatest extent possible, these requirements shall utilize the employer's existing record keeping systems, be nonduplicative, and facilitate a coordinated flow of information and referrals.

- 5) Establish guidelines for employer good faith efforts to comply with the first source hiring requirements of this Chapter. The FSHA will work with City departments to develop employer good faith effort requirements appropriate to the types of contracts and property contracts handled by each department. Employers shall appoint a liaison for dealing with the development and implementation of the employer's agreement. In the event that the FSHA finds that the employer under a City contract or property contract has taken actions primarily for the purpose of circumventing the requirements of this Chapter, that employer shall be subject to the sanctions set forth in Section 83.10 of this Chapter.
- 6) Set the term of the requirements.
- 7) Set appropriate enforcement and sanctioning standards consistent with this Chapter.

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- 8) Set forth the City's obligations to develop training programs, job applicant referrals, technical assistance, and information systems that assist the employer in complying with this Chapter.
- 9) Require the developer to include notice of the requirements of this Chapter in leases, subleases, and other occupancy contracts.

#### C. Hiring Decisions

The Contractor shall make the final determination of whether an Economically Disadvantaged Individual referred by the System is "qualified" for the position.

#### **D.** Exceptions

Upon application by the Employer, the First Source Hiring Administration may grant an exception to any or all of the requirements of Chapter 83 in any situation where it concludes that compliance with this Chapter would cause economic hardship.

#### E. Liquidated Damages

The Contractor agrees:

- 1) To be liable to the City for liquidated damages as provided in this section;
- 2) To be subject to the procedures governing enforcement of breaches of contracts based on violations of contract provisions required by this Chapter as set forth in this section;
- 3) That the Contractor's commitment to comply with this Chapter is a material element of the City's consideration for this contract; that the failure of the Contractor to comply with the contract provisions required by this Chapter will cause harm to the City and the public which is significant and substantial but extremely difficult to quantity; that the harm to the City includes not only the financial cost of funding public assistance programs but also the insidious but impossible to quantify harm that this community and its families suffer as a result of unemployment; and that the assessment of liquidated damages of up to Five Thousand Dollars (\$5,000) for every notice of a new hire for an entry level position improperly withheld by the Contractor from the first source hiring process, as determined by the FSHA during its first investigation of a Contractor, does not exceed a fair estimate of the financial and other damages that the City suffers as a result of the Contractor's failure to comply with its first source referral contractual obligations.
- 4) That the continued failure by a Contractor to comply with its first source referral contractual obligations will cause further significant and substantial harm to the City and the public, and that a second assessment of liquidated damages of up to Ten Thousand Dollars (\$10,000) for each entry level position improperly withheld from the FSHA, from the time of the conclusion of the first investigation forward, does not exceed the financial and other damages that the City suffers as a result of the Contractor's continued failure to comply with its first source referral contractual obligations;

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- 5) That in addition to the cost of investigating alleged violations under this Section, the computation of liquidated damages for purposes of this section is based on the following data:
  - a) The average length of stay on public assistance in San Francisco's County Adult Assistance Program is approximately 41 months at an average monthly grant of Three Hundred Forty-eight Dollars (\$348) per month, totaling approximately Fourteen Thousand Three Hundred Seventy-nine Dollars (\$14,379); and
  - b) In 2004, the retention rate of adults placed in employment programs funded under the Workforce Investment Act for at least the first six (6) months of employment was 84.4%. Since qualified individuals under the First Source program face far fewer barriers to employment than their counterparts in programs funded by the Workforce Investment Act, it is reasonable to conclude that the average length of employment for an individual whom the First Source Program refers to an employer and who is hired in an entry level position is at least one (1) year; therefore, liquidated damages that total Five Thousand Dollars (\$5,000) for first violations and Ten Thousand Dollars (\$10,000) for subsequent violations as determined by FSHA constitute a fair, reasonable, and conservative attempt to quantify the harm caused to the City by the failure of a Contractor to comply with its first source referral contractual obligations.
- 6) That the failure of Contractors to comply with this Chapter, except property contractors, may be subject to the debarment and monetary penalties set forth in Sections 6.80 et seq. of the San Francisco Administrative Code, as well as any other remedies available under the contract or at law; and
- 7) That in the event the City is the prevailing party in a civil action to recover liquidated damages for breach of a contract provision required by this Chapter, the Contractor will be liable for the City's costs and reasonable attorneys fees.
- 8) Violation of the requirements of Chapter 83 is subject to an assessment of liquidated damages in the amount of Five Thousand Dollars (\$5,000) for every new hire for an Entry Level Position improperly withheld from the first source hiring process. The assessment of liquidated damages and the evaluation of any defenses or mitigating factors shall be made by the FSHA.

#### F. Subcontracts

Any subcontract entered into by the Contractor shall require the subcontractor to comply with the requirements of Chapter 83 and shall contain contractual obligations substantially the same as those set forth in this Section.

## 46. Prohibition on Political Activity with City Funds

In accordance with San Francisco Administrative Code Chapter 12.G, the Contractor may not participate in, support, or attempt to influence any political campaign for a candidate or for a ballot measure (collectively, "Political Activity") in the performance of the services provided under this Agreement. The Contractor agrees to comply with San Francisco Administrative Code Chapter 12.G and any implementing rules and regulations promulgated by the City's Controller. The terms and

provisions of Chapter 12.G are incorporated herein by this reference. In the event the Contractor violates the provisions of this section, the City may, in addition to any other rights or remedies available hereunder, (i) terminate this Agreement, and (ii) prohibit the Contractor from bidding on or receiving any new City contract for a period of two (2) years. The Controller will not consider Contractor's use of profit as a violation of this section.

#### 47. Preservative-treated Wood Containing Arsenic

The Contractor may not purchase preservative-treated wood products containing arsenic in the performance of this Agreement unless an exemption from the requirements of Chapter 13 of the San Francisco Environment Code is obtained from the Department of the Environment under Section 1304 of the Code. The term "preservative-treated wood containing arsenic" shall mean wood treated with a preservative that contains arsenic, elemental arsenic, or an arsenic copper combination, including, but not limited to, chromated copper arsenate preservative, ammoniacal copper zinc arsenate preservative-treated wood products on the list of environmentally preferable alternatives prepared and adopted by the Department of the Environment. This provision does not preclude the Contractor from purchasing preservative-treated wood containing arsenic for saltwater immersion. The term "saltwater immersion" shall mean a pressure-treated wood that is used for construction purposes or facilities that are partially or totally immersed in saltwater.

#### 48. Modification of Agreement

This Agreement may not be modified, nor may compliance with any of its terms be waived, except by written instrument executed and approved in the same manner as this Agreement. The Contractor shall cooperate with the Department to submit to the Director of HRC any amendment, modification, supplement, or change order that would result in a cumulative increase of the original amount of this Agreement by more than twenty percent (20%) (HRC Contract Modification Form).

#### 49. Administrative Remedy for Agreement Interpretation

Should any question arise as to the meaning and intent of this Agreement, the question shall, prior to any other action or resort to any other legal remedy, be referred to Purchasing who shall decide the true meaning and intent of the Agreement.

#### 50. Agreement Made in California; Venue

The formation, interpretation, and performance of this Agreement shall be governed by the laws of the State of California. Venue for all litigation relative to the formation, interpretation, and performance of this Agreement shall be in San Francisco.

#### 51. Construction

All paragraph captions are for reference only and shall not be considered in construing this Agreement.

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#### 52. Entire Agreement

This contract sets forth the entire Agreement between the parties, and supersedes all other oral or written provisions. This contract may be modified only as provided in Section 48.

#### 53. Compliance with Laws

The Contractor shall keep itself fully informed of the City's Charter, codes, ordinances, and regulations of the City and of all state, and federal laws in any manner affecting the performance of this Agreement, and must at all times comply with such local codes, ordinances, and regulations and all applicable laws as they may be amended from time to time. Notwithstanding anything contained herein to the contrary, if a change in any local codes, ordinances, regulations or applicable state or federal laws, including any changes in law related to the oversight of the California Department of Occupational Safety and Health ("DOSH"), which cause an increase to the Contractor's scope of services or an increase in the Contractor's costs to perform its services, the Contractor may seek equitable adjustment from the City and if agreed to by the City, any such equitable adjustment shall be treated as a change order under this Agreement.

#### 54. Services Provided by Attorneys

Any services to be provided by a law firm or attorney must be reviewed and approved in writing in advance by the City Attorney. No invoices for services provided by law firms or attorneys, including, without limitation, as subcontractors of Contractor, will be paid unless the provider received advance written approval from the City Attorney.

# 55. Supervision of Minors - Left Blank by Agreement of the Parties – Contract Does Not Involve Supervision of Minors.

#### 56. Severability

Should the application of any provision of this Agreement to any particular facts or circumstances be found by a court of competent jurisdiction to be invalid or unenforceable, then (i) the validity of other provisions of this Agreement shall not be affected or impaired thereby, and (ii) such provision shall be enforced to the maximum extent possible so as to effect the intent of the parties and shall be reformed without further action by the parties to the extent necessary to make such provision valid and enforceable.

#### 57. Protection of Private Information

The Contractor has read and agrees to the terms set forth in San Francisco Administrative Code Sections 12M.2, "Nondisclosure of Private Information," and 12M.3, "Enforcement" of Administrative Code Chapter 12M, "Protection of Private Information," which are incorporated herein as if fully set forth. The Contractor agrees that any failure of the Contactor to comply with the requirements of Section 12M.2 of this Chapter shall be a material breach of the Contract. In such an event, in addition to any other remedies available to it under equity or law, the City may terminate the Contract, bring a false claim action against the Contractor pursuant to Chapter 6 or Chapter 21 of the Administrative Code, or debar the Contractor.



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#### 58. Graffiti Removal

- A. Graffiti is detrimental to the health, safety, and welfare of the community in that it promotes a perception in the community that the laws protecting public and private property can be disregarded with impunity. This perception fosters a sense of disrespect of the law that results in an increase in crime; degrades the community and leads to urban blight; is detrimental to property values, business opportunities and the enjoyment of life; is inconsistent with the City's property maintenance goals and aesthetic standards; and results in additional graffiti and in other properties becoming the target of graffiti unless it is quickly removed from public and private property. Graffiti results in visual pollution and is a public nuisance. Graffiti must be abated as quickly as possible to avoid detrimental impacts on the City and County and its residents, and to prevent the further spread of graffiti.
- B. The Contractor shall remove all graffiti from any real property owned or leased by the Contractor in the City and County of San Francisco within forty eight (48) hours of the earlier of Contractor's (i) discovery or notification of the graffiti or (ii) receipt of notification of the graffiti from the Department of Public Works. This section is not intended to require a Contractor to breach any lease or other agreement that it may have concerning its use of the real property. The term "graffiti" means any inscription, word, figure, marking or design that is affixed, marked, etched, scratched, drawn or painted on any building, structure, fixture or other improvement, whether permanent or temporary, including by way of example only and without limitation, signs, banners, billboards and fencing surrounding construction sites, whether public or private, without the consent of the owner of the property or the owner's authorized agent, and which is visible from the public right-of-way. "Graffiti" shall not include: (iii) any sign or banner that is authorized by, and in compliance with, the applicable requirements of the San Francisco Public Works Code, the San Francisco Planning Code or the San Francisco Building Code; or (iv) any mural or other painting or marking on the property that is protected as a work of fine art under the California Art Preservation Act (California Civil Code Sections 987 et seq.) or as a work of visual art under the Federal Visual Artists Rights Act of 1990 (17 U.S.C. §§ 101 et seq.).
- C. Any failure of the Contractor to comply with this section of this Agreement shall constitute an Event of Default of this Agreement.

#### 59. Food Service Waste Reduction Requirements

Effective June 1, 2007, the Contractor agrees to comply fully with and be bound by all of the provisions of the Food Service Waste Reduction Ordinance, as set forth in San Francisco Environment Code Chapter 16, including the remedies provided, and implementing guidelines and rules. The provisions of Chapter 16 are incorporated herein by reference and made a part of this Agreement as though fully set forth. This provision is a material term of this Agreement. By entering into this Agreement, the Contractor agrees that if it breaches this provision, the City will suffer actual damages that will be impractical or extremely difficult to determine; further, the Contractor agrees that the sum of One Hundred Dollars (\$100) liquidated damages for the first breach, Two Hundred Dollars (\$200) liquidated damages for the second breach in the same year, and Five Hundred Dollars (\$500) liquidated damages for subsequent breaches in the same year is reasonable estimate of the damage that the City will incur based on the violation, established in light of the circumstances existing at the time this Agreement was made. Such amount shall not be considered a penalty, but rather agreed monetary damages sustained by the City because of the Contractor's failure to comply with this provision.

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60. Slavery Era Disclosure - Left Blank by Agreement of the Parties - Contract Not for Insurance or Applicable Financial Services or Textiles.

#### 61. Dispute Resolution Procedure

- A. Any disputes arising under this Agreement shall first be dealt with between members of the Contractor's and the City's senior management. If the dispute is not resolved, the Contractor and the City agree to submit themselves to non-binding mediation. The Parties may then choose to arbitrate or litigate any unresolved dispute. Rules for arbitration shall be those set forth under the guidelines of the American Arbitration Association. Venue for arbitration or litigation shall be California.
- B. Either Party shall have sixty (60) days form the date of discovery that a claim exists to begin the dispute resolution procedure as against the other Party. This sixty (60) day time frame may be increased upon mutual agreement of the Parties.
- C. If the Contractor has a claim against the City, within sixty (60) days (or within an additional time frame, as mutually agreed upon by the Parties) the Contractor shall submit to the City a formal claim and all arguments, justifications, cost or estimates and detailed documentation supporting its position. The Contractor shall submit the claim justification in the following format:
  - 1) Cover letter and certification that the claim is made in good faith;
  - 2) Summary of the claim, including:
    - a) Underlying facts;
    - b) Entitlement;
    - c) Calculations;
    - d) Contract provisions supporting relief, if applicable;
  - 3) List of documents relating to the claim;
  - 4) Chronology of events and correspondence;
  - 5) Analysis of claim merit;
  - 6) Analysis of claim cost; and
  - 7) Any attachments required to support the claim.
- D. If the City has a claim against the Contractor, within sixty (60) days (or within an additional time frame, as mutually agreed upon by the Parties) the City shall submit to the Contractor a written notification of the claim, including a detailed description of the claim and all relevant supporting documentation.
- E. The Parties agree that any claims not raised in a timely manner by written notice, as set forth above, and not first dealt with between the Parties' senior management, may not be asserted in any Government Code Claim, subsequent litigation, or legal action.



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## 62. Airport Intellectual Property

Pursuant to Resolution No. 01-0118, adopted by the Airport Commission on April 18, 2001, the Airport Commission affirmed that it will not tolerate the unauthorized use of its intellectual property, including the SFO logo, CADD designs, and copyrighted publications. All proposers, bidders, contractors, tenants, permittees, and others doing business with or at the Airport (including subcontractors and subtenants) may not use the Airport intellectual property, or any intellectual property confusingly similar to the Airport intellectual property, with the Airport Director's prior consent.

#### 63. Labor Peace / Card Check Rule

Without limiting the generality of other provisions herein requiring the Contractor to comply with all Airport Rules, the Contractor shall comply with the Airport's Labor Peace / Card Check Rule, adopted on February 1, 2000, pursuant to Airport Commission Resolution No. 00-0049 (the "Labor Peace / Card Check Rule"). Capitalized terms not defined in this provision are defined in the Labor Peace/Card Check Rule. To comply with the Labor Peace/Card Check Rule, the Contractor shall, among other actions: (i) Enter into a Labor Peace/Card Check Rule Agreement with any Labor Organization which requests such an agreement and which has registered with the Airport Director or his / her designee, within thirty (30) days after Labor Peace/Card Check Rule Agreement has been requested; (ii) Not less than thirty (30) days prior to the modification of this Agreement, the Contractor shall provide notice by mail to any Labor Organization or federation of labor organizations which have registered with the Airport Director or his / her designee (registered labor organization"), that the Contractor is seeking to modify or extend this Agreement; (iii) Upon issuing any request for proposals, invitations to bid, or similar notice, or in any event not less than thirty (30) days prior to entering into any Subcontract, the Contractor shall provide notice to all registered Labor Organizations that the Contractor is seeking to enter into such Subcontract; and (iv) the Contractor shall include in any subcontract with a Subcontractor performing services pursuant to any covered Contract, a provision requiring the Subcontractor performing services pursuant to any covered Contract, a provision requiring the Subcontractor to comply with the requirements of the Labor Peace/Card Check Rule. If Airport Director determines that the Contractor violated the Labor Peace/Card Check Rule, the Airport Director shall have the option to terminate this Agreement, in addition to exercising all other remedies available to him / her.

#### 64. Force Majeure

Neither Party under this Agreement shall be liable to the other for any failure, delay or interruption of the performance of its obligations hereunder due to causes or conditions beyond the control of that Party, including, without limitation, acts of God, explosions, fire and other accidents, including those resulting from seismic activity. The Contractor shall have the ability to request an equitable adjustment for both time and cost as it relates to an event of force majeure and the City's approval of such equitable adjustment shall not be unreasonably withheld.

#### 65. Warranty

A. The Contractor represents and warrants that it is and will be at all times fully qualified and capable of performing every phase of the work and shall complete the work in accordance with the terms of the Contract Documents. The Contractor warrants that all work and related services shall be performed in accordance with generally accepted professional standards of good and

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| AIRTRAIN O&M (08-08)                                                                                                                                                                                                               | AGREEMENT     | Contract No. 8838                                                                                                |
|                                                                                                                                                                                                                                    | Page 30 of 33 | Issued for Signature 092908                                                                                      |
|                                                                                                                                                                                                                                    |               |                                                                                                                  |

sound transit industry practices and all requirements of the Contract Documents. Subject to the last sentence of this paragraph, the Contractor warrants that the work, including but not limited to each item of materials and equipment incorporated therein, shall be new, shall be of suitable grade of its respective kind for its intended use, shall be free from defects in design, engineering, materials, construction and workmanship, and shall conform in all respects with all applicable requirements of federal, state and local laws, licenses, and permits, the Drawings and Specifications and all descriptions set forth therein, applicable construction codes and standards, and all other requirements of the Contract Documents. Notwithstanding the foregoing, the Contractor shall not be responsible for the negligence of others in the specification of specific equipment, materials, design parameters, means, or methods of construction where that it is shown and expressly required by the Contract Documents.

B. The Contractor further warrants that operation and maintenance methods and procedures employed on the AirTrain shall have in the past proven to be suitable for the results expected. If the Contractor proposes to use an unproven and untried (i) operation of maintenance method or procedure or, (ii) part, material or component, the Commission must be advised of that fact, in advance and in writing. The Commission may permit experimentation, but it may require special guarantees of the Contractor to cover the work produced by the new and untried method or the part, material or component. Any Commission approved experimentation that requires special guarantees by the Contractor will be incorporated into the Contract by a Contract modification.

The Contractor shall provide all of the labor, parts, materials and components which are required to repair or replace any work which does not satisfy the quality of work warranty described above and shall replace and install any parts, materials or components which do not comply with the Contractor's warranty for a period of one (1) year after the repair or replacement is completed at no cost to the Commission. In the event that the Contractor is no longer performing Operation & Maintenance (O&M) of the system within the warranty period, the Airport must demonstrate that equipment has been maintained in accordance with the Contractor's written procedures as provided to the Airport.

#### 66. Contract Documents

The Contract Documents which comprise the entire agreement between the Commission and the Contractor concerning the Work consist of the following documents, including all changes, addenda, and modifications thereto:

- A. Agreement between the City and County of San Francisco and Bombardier Transportation (Holdings) USA Inc.; Contract 8838
- **B.** General Requirements
- C. Appendix A Services to be Provided by the Contractor
- D. Appendix B Calculation of Charges/Determination of Monthly Payments
- E. Appendix C Incident Grace Period Table
- F. Appendix D-K Factor Table

AIRTRAIN O&M (08-08)

AGREEMENT Page 31 of 33 G. Appendix E - Spare Parts, Tools and Equipment List

H. Appendix F - Base Contract Price Breakdown

AIRTRAIN O&M (08-08)

AGREEMENT Page 32 of 33 Contract No. 8838 Issued for Signature 092908



IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day first mentioned above.

CITY AIRPORT COMMISSION CITY AND COUNTY OF SAN FRANCISCO

By: John E. Martin, Airport Director

Attest:

Jean Caramatti, Secretary

Airport Commission

Resolution No: 08-0173

Adopted on: September 16, 2008

Approved as to Form:

Dennis J. Herrera City Attorney

By hev

AIRTRAIN O&M (08-08)

## CONTRACTOR

By signing this Agreement, I certify that I have read and understood paragraph 35, the City's statement urging companies doing business in Northern Ireland to move towards resolving employment inequities, encouraging compliance with the MacBride Principles, and urging San Francisco companies to do business with corporations that abide by the MacBride Principles.

Edward A. Gordon Printed Name

Vice President

Authorized Signature

Title

Authorized Signature

Michael E. Fetsko Printed Name

<u>Vice President</u> Title

Bombardier Transportation (Holdings) USA Inc. Company Name

40554

City Vendor Number

1501 Lebanon Church Road Address

Pittsburgh, PA 15236 City, State, ZIP (412) 655-5700 Telephone Number 25-1579550 Federal Employer ID Number

AGREEMENT

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## City and County of San Francisco Airport Commission P.O. Box 8097 San Francisco, California 94128

#### First Amendment

THIS AMENDMENT (this "Amendment") is made as of August 1, 2013, in San Francisco, California, by and between **Bombardier Transportation (Holdings) USA Inc.** ("Contractor"), and the City and County of San Francisco, a municipal corporation ("City"), acting by and through its Airport Commission or the Commission's designated agent, hereinafter referred to as "Commission."

#### RECITALS

WHEREAS, City and Contractor have entered into the Agreement (as defined below); and

WHEREAS, City and Contractor desire to amend the Agreement on the terms and conditions set forth herein to exercise the three-year contract extension and provide funding for the budget shortfall from escalation and bonus adjustments for the initial contract term; and

WHEREAS, the Commission awarded this contract to Contractor on September 16, 2008, pursuant to an agreement to settle a dispute among the City and County of San Francisco, Bombardier Transportation (Holdings) USA, Inc., and Factory Mutual Insurance Company which was filed in the United States District Court for the Northern District of California, case number C 04-5307 PJH, and further pursuant to Resolution No. 08-0173; and

WHEREAS, Commission approved this Amendment 1 pursuant to Resolution No. 13-0156 on July 23, 2013; and

WHEREAS, pursuant to San Francisco Charter Section 9.118, the Board of Supervisors by its Resolution No. 266-08, adopted November 18, 2008, approved the contract to Contractor; and

WHEREAS, pursuant to San Francisco Charter Section 9.118, the Board of Supervisors by its Resolution No. 0429-13, adopted December 10, 2013, approved the amendment to the Agreement; and

WHEREAS, the Commission desires to amend the Agreement for administrative changes required by recently enacted San Francisco contracting ordinances; and

NOW, THEREFORE, Contractor and the City agree as follows:

1. **Definitions.** The following definitions shall apply to this Amendment:

**a.** Agreement. The term "Agreement" shall mean the Agreement dated September 16, 2008 between Contractor and City.

**b.** Other Terms. Terms used and not defined in this Amendment shall have the meanings assigned to such terms in the Agreement.

2. Section 2. Term of the Agreement is hereby amended to extend the term of the contract for an additional three year term for a new ending date of February 28, 2017.

3. Section 5. Compensation is hereby amended to increase the total compensation payable by an amount not to exceed \$42,200,000 for a new total not to exceed amount of \$98,700,000.

4. New Section 8. Submitting False Claims; Monetary Penalties is hereby replaced in its entirety to read as follows:

## 8. Submitting False Claims; Monetary Penalties.

Pursuant to San Francisco Administrative Code §21.35, any contractor, subcontractor or consultant who submits a false claim shall be liable to the City for the statutory penalties set forth in that section. The text of Section 21.35, along with the entire San Francisco Administrative Code is available on the web at:

http://www.amlegal.com/nxt/gateway.dll?f=templates&fn=default.htm&vid=amlegal:sanfrancisco ca. A contractor, subcontractor or consultant will be deemed to have submitted a false claim to the City if the contractor, subcontractor or consultant: (a) knowingly presents or causes to be presented to an officer or employee of the City a false claim or request for payment or approval; (b) knowingly makes, uses, or causes to be made or used a false record or statement to get a false claim paid or approved by the City; (c) conspires to defraud the City by getting a false claim allowed or paid by the City; (d) knowingly makes, uses, or causes to be made or used a false record or statement to conceal, avoid, or decrease an obligation to pay or transmit money or property to the City; or (e) is a beneficiary of an inadvertent submission of a false claim to the City, subsequently discovers the falsity of the claim, and fails to disclose the false claim to the City within a reasonable time after discovery of the false claim.

5. New Section 45. First Source Hiring Program is hereby replaced in its entirety to read as follows:

#### 45. First Source Hiring Program

a. Application of Administrative Code Provisions by Reference. The provisions of Chapter 83 of the San Francisco Administrative Code apply to this Agreement. Contractor shall comply fully with, and be bound by, all of the provisions that apply to this Agreement under such Chapter, including but not limited to the remedies provided therein. Capitalized terms used in this Section and not defined in this Agreement shall have the meanings assigned to such terms in Chapter 83.

**b.** First Source Hiring Agreement. As an essential term of, and consideration for, any contract or property contract with the City, not exempted by the FSHA, the Contractor shall enter into a first source hiring agreement ("agreement") with the City, on or before the effective date of the contract or property contract. Contractors shall also enter into an agreement with the City for any other work that it performs in the City. Such agreement shall:

(1) Set appropriate hiring and retention goals for entry level positions. The employer shall agree to achieve these hiring and retention goals, or, if unable to achieve these goals, to establish good faith efforts as to its attempts to do so, as set forth in the agreement. The agreement shall take into consideration the employer's participation in existing job training, referral and/or brokerage programs. Within the discretion of the FSHA, subject to appropriate modifications, participation in such programs maybe certified as meeting the requirements of this Chapter. Failure either to achieve the specified goal or to establish good faith efforts will constitute noncompliance and will subject the employer to the provisions of Section 83.10 of this Chapter.

(2) Set first source interviewing, recruitment and hiring requirements, which will provide the San Francisco Workforce Development System with the first opportunity to provide qualified economically disadvantaged individuals for consideration for employment for entry level positions. Employers shall consider all applications of qualified economically disadvantaged individuals referred by the System for employment; provided however, if the employer utilizes nondiscriminatory screening criteria, the employer shall have the sole discretion to interview and/or hire individuals referred or certified by the San Francisco Workforce Development System as being qualified economically disadvantaged individuals. The duration of the first source interviewing requirement shall be determined by the FSHA and shall be set forth in each agreement, but shall not exceed 10 days. During that period, the employer may publicize the entry level positions in accordance with the agreement. A need for urgent or temporary hires must be evaluated, and appropriate provisions for such a situation must be made in the agreement.

(3) Set appropriate requirements for providing notification of available entry level positions to the San Francisco Workforce Development System so that the System may train and refer an adequate pool of qualified economically disadvantaged individuals to participating employers. Notification should include such information as employment needs by occupational title, skills, and/or experience required, the hours required, wage scale and duration of employment, identification of entry level and training positions, identification of English language proficiency requirements, or absence thereof, and the projected schedule and procedures for hiring for each occupation. Employers should provide both long-term job need projections and notice before initiating the interviewing and hiring process. These notification requirements will take into consideration any need to protect the employer's proprietary information.

(4) Set appropriate record keeping and monitoring requirements. The First Source Hiring Administration shall develop easy-to-use forms and record keeping requirements for documenting compliance with the agreement. To the greatest extent possible, these requirements shall utilize the employer's existing record keeping systems, be nonduplicative, and facilitate a coordinated flow of information and referrals.

(5) Establish guidelines for employer good faith efforts to comply with the first source hiring requirements of this Chapter. The FSHA will work with City departments to develop employer good faith effort requirements appropriate to the types of contracts and property contracts handled by each department. Employers shall appoint a liaison for dealing with the development and implementation of the employer's agreement. In the event that the FSHA finds that the employer under a City contract or property contract has taken actions primarily for the purpose of circumventing the requirements of this Chapter, that employer shall be subject to the sanctions set forth in Section 83.10 of this Chapter.

(6) Set the term of the requirements.

(7) Set appropriate enforcement and sanctioning standards consistent with this Chapter.

(8) Set forth the City's obligations to develop training programs, job applicant referrals, technical assistance, and information systems that assist the employer in complying with this Chapter.

(9) Require the developer to include notice of the requirements of this Chapter in leases, subleases, and other occupancy contracts.

c. Hiring Decisions. Contractor shall make the final determination of whether an Economically Disadvantaged Individual referred by the System is "qualified" for the position.

**d.** Exceptions. Upon application by Employer, the First Source Hiring Administration may grant an exception to any or all of the requirements of Chapter 83 in any situation where it concludes that compliance with this Chapter would cause economic hardship.

e. Liquidated Damages. Contractor agrees:

(1) To be liable to the City for liquidated damages as provided in this section;

(2) To be subject to the procedures governing enforcement of breaches of contracts based on violations of contract provisions required by this Chapter as set forth in this section;

(3) That the contractor's commitment to comply with this Chapter is a material element of the City's consideration for this contract; that the failure of the contractor to comply with the contract provisions required by this Chapter will cause harm to the City and the public which is significant and substantial but extremely difficult to quantity; that the harm to the City includes not only the financial cost of funding public assistance programs but also the insidious but impossible to quantify harm that this community and its families suffer as a result of unemployment; and that the assessment of liquidated damages of up to \$5,000 for every notice of a new hire for an entry level position improperly withheld by the contractor from the first source hiring process, as determined by the FSHA during its first investigation of a contractor, does not exceed a fair estimate of the financial and other damages that the City suffers as a result of the contractor's failure to comply with its first source referral contractual obligations.

(4) That the continued failure by a contractor to comply with its first source referral contractual obligations will cause further significant and substantial harm to the City and the public, and that a second assessment of liquidated damages of up to \$10,000 for each entry level position improperly withheld from the FSHA, from the time of the conclusion of the first investigation forward, does not exceed the financial and other damages that the City suffers as a result of the contractor's continued failure to comply with its first source referral contractual obligations;

(5) That in addition to the cost of investigating alleged violations under this Section, the computation of liquidated damages for purposes of this section is based on the following data:

A. The average length of stay on public assistance in San Francisco's County Adult Assistance Program is approximately 41 months at an average monthly grant of \$348 per month, totaling approximately \$14,379; and

B. In 2004, the retention rate of adults placed in employment programs funded under the Workforce Investment Act for at least the first six months of employment was 84.4%. Since qualified individuals under the First Source program face far fewer barriers to employment than their counterparts in programs funded by the Workforce Investment Act, it is reasonable to conclude that the average length of employment for an individual whom the First Source Program refers to an employer and who is hired in an entry level position is at least one year; therefore, liquidated damages that total \$5,000 for first violations and \$10,000 for subsequent violations as determined by FSHA constitute a fair, reasonable, and conservative attempt to quantify the harm caused to the City by the failure of a contractor to comply with its first source referral contractual obligations.

(6) That the failure of contractors to comply with this Chapter, except property contractors, may be subject to the debarment and monetary penalties set forth in Sections 6.80 et seq. of the San Francisco Administrative Code, as well as any other remedies available under the contract or at law.

Violation of the requirements of Chapter 83 is subject to an assessment of liquidated damages in the amount of \$5,000 for every new hire for an Entry Level Position improperly withheld from the first source hiring process. The assessment of liquidated damages and the evaluation of any defenses or mitigating factors shall be made by the FSHA.

f. Subcontracts. Any subcontract entered into by Contractor shall require the subcontractor to comply with the requirements of Chapter 83 and shall contain contractual obligations substantially the same as those set forth in this Section.

6. New Section 63. Labor Peace / Card Check Rule is hereby replaced in its entirety to read as follows:

63. Labor Peace / Card Check Rule. Without limiting the generality of other provisions herein requiring Contractor to comply with all Airport Rules, Contractor shall comply with the Airport's Labor Peace / Card Check Rule, adopted on February 1, 2000, pursuant to Airport Commission Resolution No. 00-0049 (the "Labor Peace / Card Check Rule"). Capitalized terms not defined in this provision are defined in the Labor Peace/Card Check Rule. To comply with the Labor Peace/Card Check Rule, Contractor shall, among other actions: (a) Enter into a Labor Peace/Card Check Rule Agreement with any Labor Organization which requests such an agreement and which has registered with the Airport Director or his / her designee, within thirty (30) days after Labor Peace/Card Check Rule Agreement has been requested; (b) Not less than thirty (30) days prior to the modification of this Agreement, Contractor shall provide notice by mail to any Labor Organization or federation of labor organizations which have registered with the Airport Director or his / her designee (registered labor organization"), that Contractor is seeking to modify or extend this Agreement; (c) Upon issuing any request for proposals, invitations to bid, or similar notice, or in any event not less than thirty (30) days prior to entering into any Subcontract, Contractor shall provide notice to all registered Labor Organizations that Contractor is seeking to enter into such Subcontract; and (d) Contractor shall include in any subcontract with a Subcontractor performing services pursuant to any covered Contract, a provision requiring the Subcontractor performing services pursuant to any covered Contract, a provision requiring the Subcontractor to comply with the requirements of the Labor Peace/Card Check Rule. If Airport Director determines that Contractor violated the Labor Peace/Card Check Rule, Airport Director shall have the option to terminate this Agreement, in addition to exercising all other remedies available to him / her.

7. New Section 67. Cooperative Drafting is hereby added to the Agreement, as follows:

67. Cooperative Drafting. This Agreement has been drafted through a cooperative effort of both parties, and both parties have had an opportunity to have the Agreement reviewed and revised by legal counsel. No party shall be considered the drafter of this Agreement, and no presumption or rule that an ambiguity shall be construed against the party drafting the clause shall apply to the interpretation or enforcement of this Agreement.

8. New Section 68. Federal Non-Discrimination Provisions is hereby added to read as follows:

Federal Non-Discrimination Provisions. Contractor for itself, its personal representatives, 68. successors in interest, and assigns, as part of the consideration hereof, does hereby covenant and agree that Contractor shall maintain and operate the Airport facilities and services in compliance with all requirements imposed pursuant to Title 49, Code of Federal Regulations, DOT, Subtitle A. Office of the Secretary, Part 21, Nondiscrimination in Federally-Assisted Programs of the Department of Transportation - Effectuation of Title VI of the Civil Rights Act of 1964, as said regulations may be amended. Contractor, for itself, its personal representatives, successors in interest, and assigns, agrees that Contractor in its operation at and use of San Francisco International Airport, covenants that (1) no person on the grounds of race, color, national origin or sex shall be excluded from participation in, denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities; (2) that in the construction of any improvements on, over, or under the Airport and the furnishing of services thereon, no person on the grounds of race, color, national origin or sex shall be excluded from participation or denied the benefits of, or otherwise be subject to discrimination, (3) that Contractor shall use all City premises in compliance with all other requirements imposed by or pursuant to Title 49, Code of Federal Regulations, DOT, Subtitle A - Office of the Secretary of Transportation, Part 21, Nondiscrimination in Federally-Assisted Programs of the Department of Transportation - Effectuation of Title VI of the Civil Rights Act of 1964, and as said Regulations may be amended. These Regulations are incorporated as though fully set forth herein. Contractor agrees to include the above statements in any subsequent contract that it enters into with subcontractors and cause those agreements to similarly include the statements, and cause those businesses to include the statements in further agreements.

Failure by the contractor to comply with the requirements of this section is a material breach of this contract, which may result in the termination of this contract or such other remedy as the Airport deems appropriate.

9. Effective Date. Each of the modifications set forth in Section 2 shall be effective on and after August 1, 2013.

10. Legal Effect. Except as expressly modified by this Amendment, all of the terms and conditions of the Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, Contractor and City have executed this Amendment as of the date first referenced above.

CITY CONTRACTOR AIRPORT COMMISSION CITY AND COUNTY OF SAN FRANCISCO By: John L. Martin, Airport Director C. tantolar 1)eva Printed Attest: =namerina pondo Title By Bombardier Transportation (Holdings) USA Inc. Jean Caramatti, Secretary Company Name Airport Commission 40554 Resolution No: 13-016 City Vendor Number 1ely 23,2013 Adopted on: 1501 Lebanon Church Road Address Pittsburgh, PA 15236 Approved as to Form: City, State, ZIP Dennis J. Herrera (412) 655-5700 City Attorney Telephone Number 25-1579550 Federal Employer ID Number By tance Menefee Deputy City Attorney

August 1, 2013, Contract #8838

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## AIRPORT COMMISSION

## CITY AND COUNTY OF SAN FRANCISCO

## RESOLUTION NO. 16-0277

## APPROVE MODIFICATION NO. 3 TO CONTRACT NO. 8838 WITH BOMBARDIER TRANSPORTATION (HOLDINGS) USA, INC. FOR AIRTRAIN OPERATIONS AND MAINTENANCE SERVICES

- WHEREAS, on September 16, 2008, this Commission approved Resolution No. 08-0173 awarding Contract No. 8838 AirTrain Operations and Maintenance (O&M) to Bombardier Transportation (Holdings) USA, Inc. (BT USA) for a five-year contract, with one (1) three-year option, and two (2) one-year options, in the amount of \$56,500,000 and approved a one-year contingency budget of \$500,000 for payment of incentive bonuses and other changes, subject to the Board of Supervisors (BOS) approval of the agreement and award of this contract; and
- WHEREAS, on November 18, 2008, the BOS passed Ordinance No. 080942, which granted the Airport Commission a waiver of the competitive bidding requirements, adopted Resolution No. 266-08 for award of Contract No. 8838 to BT USA for a five-year term in the amount of \$56,500,000, and approved the contingency budget of \$500,000 for payment of incentive bonuses and other changes during Year One of the new contract; and
- WHEREAS, the originally approved \$56,500,000 to fund the initial five-year term did not include funding for labor and material escalation and bonuses beyond year one of the contract, resulting in a shortfall of \$3,200,000 over the initial five-year term; and
- WHEREAS, on July 23, 2013, this Commission adopted Resolution No. 13-0156, which approved Modification No. 1 for a three-year contract extension (March 1, 2014 through February 28, 2017) to Contract No. 8838, to BT USA, for AirTrain O&M, in the amount \$42,200,000; and
- WHEREAS, on December 10, 2013, the BOS adopted Resolution No. 429-13, which approved Modification No. 1 to the contract; and

Page 1 of 2

## AIRPORT COMMISSION

CITY AND COUNTY OF SAN FRANCISCO RESOLUTION NO. 16-0277

WHEREAS, on May 19, 2014 this Commission adopted Resolution No. 14-0104, which approved Modification No. 2 to Contract No. 8838, AirTrain O&M, with BT USA, increasing the not to exceed amount by \$1,848,174 to cover the replacement cost of obsolete or worn out AirTrain equipment and to provide funding for the replacement of any additional materials, tools and equipment that may become obsolete or worn beyond repair over the three-year contract term, for a revised not to exceed total contract amount of \$100,548,174; and

WHEREAS, on September 19, 2014, the BOS adopted Resolution No. 328-14, which approved Modification No. 2 for the AirTrain System but reduced the not to exceed amount by \$4,340, for a revised not to exceed amount of \$100,543,834; and

WHEREAS, Staff proposes to further modify this contract to exercise the first of two (2) oneyear options (March 1, 2017 through February 28, 2018) and to provide additional funding for the replacement cost of obsolete or worn out AirTrain parts and equipment; and

- WHEREAS, funding for this project will be provided from both the Airport's Operating and Capital funds; now, therefore, be it
- RESOLVED, that this Commission hereby approves Modification No. 3 to Contract No. 8838, AirTrain Operations and Maintenance, with Bombardier Transportation (Holdings) USA, Inc., in an amount not to exceed \$14,901,134, to exercise the first one-year option (March 1, 2017 through February 28, 2018) and cover the replacement cost of obsolete or worn out AirTrain parts and equipment for a new total contract amount not to exceed \$115,444,968; and, be it further
- RESOLVED, that the Airport Director is authorized to take the necessary steps to obtain BOS approval of Modification No. 3 pursuant to San Francisco Charter Section 9.118(b).

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back

I hereby certify that the foregoing resolution was adopted by the Airport Commission **NOV 01 2016** 

at its meeting of\_

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#### San Francisco International Airport

## **MEMORANDUM**

November 1, 2016

TO:

AIRPORT COMMISSION

Hon. Larry Mazzola, President Hon. Linda S. Crayton, Vice President Hon. Eleanor Johns Hon. Richard J. Guggenhime Hon. Peter A. Stern

FROM: Airport Director

SUBJECT: Modification No. 3 to Contract No. 8838 with Bombardier Transportation (Holdings) USA, Inc.

DIRECTOR'S RECOMMENDATION: APPROVE MODIFICATION NO. 3 TO CONTRACT NO. 8838 WITH BOMBARDIER TRANSPORTATION (HOLDINGS) USA, INC. FOR AIRTRAIN OPERATIONS AND MAINTENANCE SERVICES IN THE AMOUNT OF \$14,901,134 TO EXERCISE THE FIRST OF TWO 1-YEAR OPTIONS AND COVER THE REPLACEMENT OF OBSOLETE AIRTRAIN PARTS AND EQUIPMENT, FOR A NEW TOTAL NOT TO EXCEED CONTRACT AMOUNT OF \$115,444,968.

## **Executive Summary**

Transmitted herewith for your approval, is a proposed resolution to authorize Modification No. 3 to Contract No. 8838, increasing the not to exceed amount by \$14,901,134 to exercise the first 1-year option (March 1, 2017 through February 28, 2018) and cover the replacement cost of obsolete or worn out AirTrain parts and equipment.

## Background

On September 16, 2008, this Commission adopted Resolution No. 08-0173, which awarded Contract No. 8838, AirTrain Operations and Maintenance (O&M), to Bombardier Transportation (Holdings) USA, Inc. for a five-year contract (March 1, 2009 to February 28, 2014) with one (1) three-year option, and two (2) one-year options, in the amount of \$56,500,000, and approved a contingency budget of \$500,000 for payment of incentive bonuses and other changes during year one of the new contract. On November 18, 2008, the Board of Supervisors (BOS) passed Ordinance No. 080942, which granted the Airport Commission a waiver of the competitive bidding requirements, and adopted Resolution No. 266-08 for award of the contract.

On July 23, 2013, this Commission adopted Resolution No. 13-0156, which approved Modification No. 1 for a three-year contract extension (March 1, 2014 through February 28, 2017) for AirTrain O&M and, also to cover a shortfall of \$3,200,000 over the initial five-year term, in the amount of \$42,200,000, for a new not to exceed total contract amount of

AIRPORT COMMISSION CITY AND COUNTY OF SAN FRANCISCO THIS PRINT COVERS CALENDAR ITEM NO.

EDWIN M. LEE LARRY MAZZOLA LINDA S. CRAYTON ELEANOR JOHNS RICHARD J. GUGGENHIME PETER A. STERN IVAR C. SATERO MAYOR PRESIDENT VICE PRESIDENT AIRPORT DIRECTOR

## Members, Airport Commission

\$98,700,000. On December 10, 2013, the BOS adopted Resolution No. 429-13 approving Modification No. 1.

On May 19, 2014, this Commission adopted Resolution No. 14-0104, which approved Modification No. 2 in the amount of \$1,848,174 for a new not to exceed total contract amount of \$100,548,174. On September 9, 2014, the BOS adopted Resolution No. 328-14, which approved Modification No. 2 for the AirTrain System but reduced the not to exceed amount by \$4,340 for a revised not to exceed amount of \$100,543,834.

Modification No. 3 in the amount of \$14,901,134 includes the one-year contract extension and the provisions for the replacement of parts, materials, tools and equipment associated with the operation of the AirTrain that are either worn beyond repair or obsolete and can no longer be serviced. This modification will provide for the replacement of the following items identified by the contractor as either obsolete or worn beyond repair as follows:

- Installation of tri-handle stanchions in each AirTrain vehicle providing additional hand hold area for passengers at a cost of \$291,659.38.
- The automatic station door close and lock switches used at each station door has exceeded their expected life span and requires replacement with new units at a cost of \$213,953.93.
- Due to the age of the AirTrain, it is expected that additional materials, tools and equipment will require replacement over the one-year contract term at a cost not to exceed \$100,000.

## Recommendation

Based on the above, I recommend the Commission approve Modification No. 3 to Contract No. 8838 with Bombardier Transportation (Holdings) USA, Inc. in the amount not to exceed \$14,901,134, to exercise the first 1-year option (March 1, 2017 through February 28, 2018) and cover the replacement cost of obsolete or worn out AirTrain parts and equipment for a new total contract amount not to exceed \$115,444,968.

Ivar C. Satero Airport Director

Prepared by: Jeff Littlefield Chief Operating Officer

## Attachment



San Francisco International Airport

November 16, 2016

2016 NOV 17 PM 1: 39 SY THB

Ms. Angela Calvillo Clerk of the Board Board of Supervisors City Hall 1 Dr. Carlton B. Goodlett Place, Room 244 San Francisco, California 94102-4689

Subject: Approval of Modification No. 3 to Contract 8838 to provide AirTrain Operations and Maintenance Services at San Francisco International Airport with Bombardier Transportation (Holdings) USA, Inc. and the City and County of San Francisco, acting by and through its Airport Commission

Dear Ms. Calvillo,

Pursuant to Section 9.118 of the City Charter, I am forwarding for the Board of Supervisor's approval, the Modification No. 3 to Contract 8838 to provide Operation and Maintenance Services for the AirTrain System, between Bombardier Transportation (Holdings) USA, Inc. and the City and County of San Francisco, acting by and through its Airport Commission. Modification No. 3 will exercise the first of two 1-year options (March 1, 2017 through February 28, 2018) and cover the replacement of obsolete AirTrain parts and equipment, in an amount not to exceed \$14,901,134 for a new total contract amount not-to-exceed \$115,444,968. The Airport Commission has approved the terms of the contract by adopting Resolution 16-0277 on November 1, 2016.

The following is a list of accompanying documents:

- Board of Supervisors Resolution; •
- Approved Airport Commission Resolution No. 16-0277; •
- Memorandum to the Airport Commission recommending Resolution No. 16-0277
- Form SFEC-126 for the Board of Supervisors; •
- Form SFEC-126 for Mayor Lee; and •
- Copy of Original Agreement, Contract 8838
- Copy of the Amendment No. 1 to Contract 8838 from the City Attorney's Office.
- Approval as to form of Modification No. 2 to Contract 8838 from the City Attorney's Office.
- Approval as to form of Modification No. 3 to Contract 8838 from the City Attorney's Office.

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Please contact Cathy Widener, Airport Governmental Affairs at 650-821-5023 if you have any questions or concerns regarding this matter.

Very truly yours, Commission Secretary

Enclosures

EDWIN M. LEE

MAYOR

AIRPORT COMMISSION CITY AND COUNTY OF SAN FRANCISCO LARRY MAZZOLA

PRESIDENT

LINDA S. CRAYTON ELEANOR JOHNS VICE PRESIDENT

RICHARD J. GUGGENHIME

PETER A. STERN

IVAR C. SATERO AIRPORT DIRECTOR

Post Office Box 8097 San Francisco, California 94128 Tel 650.821.5000 Fax 650.821.5005 www.flysfo.com

## FORM SFEC-126: NOTIFICATION OF CONTRACT APPROVAL

| (S.F. Campaign and Gover                                                                                                                | rnmental Conduct Code § 1.126)                                                                                                                                                                                          |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| City Elective Officer Information (Please print clearly.)                                                                               |                                                                                                                                                                                                                         |  |
| Name of City elective officer(s):                                                                                                       | City elective office(s) held:                                                                                                                                                                                           |  |
| Members, SF Board of Supervisors                                                                                                        | Members, SF Board of Supervisors                                                                                                                                                                                        |  |
| Contractor Information (Please print clearly.)                                                                                          |                                                                                                                                                                                                                         |  |
| Bombardier Transportation (Holdings) USA Inc.                                                                                           |                                                                                                                                                                                                                         |  |
| (1) Board of Directors of Bombardier Transportation (Holdin<br>Callery                                                                  | ngs) USA Inc. (BTHUSA)- B. Jill Hampton, Dan Gray, Jennifer                                                                                                                                                             |  |
| (2) President - B. Jill Hampton                                                                                                         |                                                                                                                                                                                                                         |  |
| (3) N/A- No person owns 20 percent or more                                                                                              |                                                                                                                                                                                                                         |  |
| (4) N/A                                                                                                                                 |                                                                                                                                                                                                                         |  |
| (5) BTHUSA does have a group of employees known as the 'Government in the U.S. at State and Federal levels when mas                     | "PAC-Political Action Committee" whose role is to support the ss transit is involved.                                                                                                                                   |  |
| Contractor address:<br>1501 Lebanon Church Road, Pittsburgh PA 15236                                                                    | ······································                                                                                                                                                                                  |  |
| Date that contract was approved:<br>September 16, 2008                                                                                  | Amount of contract:<br>\$100,548,174                                                                                                                                                                                    |  |
| Terminals, Terminal Parking Garages, Rental Car Center and<br>Comments:<br>Modification No. 3 to Contract 8838, originally awarded purs | which operates 24 hours every day, providing access to SFO's<br>I BART Station.<br>suant to a settlement filed in the United States District Court for<br>PJH and further pursuant to Airport Commission Resolution No. |  |
| This contract was approved by (check applicable):                                                                                       |                                                                                                                                                                                                                         |  |
| $\Box$ the City elective officer(s) identified on this form                                                                             | · · · · · · · ·                                                                                                                                                                                                         |  |
| $\square$ a board on which the City elective officer(s) serves                                                                          | San Francisco Board of Supervisors<br>Print Name of Board                                                                                                                                                               |  |
|                                                                                                                                         | Authority Commission, Industrial Development Authority                                                                                                                                                                  |  |
| Board, Parking Authority, Redevelopment Agency Com                                                                                      |                                                                                                                                                                                                                         |  |
| Development Authority) on which an appointee of the C                                                                                   | ity elective officer(s) identified on this form sits                                                                                                                                                                    |  |
| Print Name of Board                                                                                                                     |                                                                                                                                                                                                                         |  |
| Filer Information (Please print clearly.)                                                                                               | <u></u>                                                                                                                                                                                                                 |  |
| Name of filer:                                                                                                                          | Contact telephone number:                                                                                                                                                                                               |  |
| Angela Calvillo, Clerk of the Board of Supervisors                                                                                      | (415) 554 5184                                                                                                                                                                                                          |  |
| Address:                                                                                                                                | E-mail:                                                                                                                                                                                                                 |  |
| City Hall, Room 244, San Francisco, CA 94102                                                                                            | Board.of.supervisors@sfgov.org                                                                                                                                                                                          |  |
|                                                                                                                                         |                                                                                                                                                                                                                         |  |
| Signature of City Elective Officer (if submitted by City elective                                                                       | ve officer) Date Signed                                                                                                                                                                                                 |  |
|                                                                                                                                         |                                                                                                                                                                                                                         |  |

Signature of Board Secretary or Clerk (if submitted by Board Secretary or Clerk)

Date Signed