

**Room Data Sheet  
Preliminary Programming**

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-1.1	<b>Typical Service Bay</b>	<ul style="list-style-type: none"> <li>4 stalls for 18288mm (60') long buses + 1 stall for 12192mm (40') long bus</li> </ul>	6303 SF / 586 M <sup>2</sup>		<ul style="list-style-type: none"> <li>Off main drive aisle</li> <li>Exterior</li> </ul>
<b>Activity Description</b>		<b>Acoustic Treatment</b>		<b>Occupancy / Loading Standards</b>	
<ul style="list-style-type: none"> <li>Bus maintenance and general repair</li> </ul>		<b>Sound Iso.</b> _____ <b>DBA</b> _____ <b>Sound Ins.</b> _____ <b>Rev. Time</b> _____		<ul style="list-style-type: none"> <li>2 persons / bay</li> </ul>	
<b>Access</b>		<b>Security</b>		<b>Flexibility</b>	
<ul style="list-style-type: none"> <li>Drive through for 18288mm (60') bays (exterior overhead door)</li> <li>Interior drive in access only for 12192mm (40') bays</li> <li>All exterior personnel exits and overhead exits require a reinforced concrete pad which should be tied structurally to the building foundation wall.</li> </ul>		<ul style="list-style-type: none"> <li>Building Perimeter</li> </ul>		<ul style="list-style-type: none"> <li>Single use space</li> </ul>	
<b>Structure</b>		<b>Environment</b>		<b>Equipment</b>	
<b>Height</b> 5791 mm clear (match existing garage) <b>Clear Span</b> <u>yes</u> <b>Floor Loading</b> _____ psf _____ <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>Refer to E23.8 Structural Specifications on requirements for fall arrest system design.</li> <li>Refer to E23.7.1 Structural Specifications for Wall Impact Resistance</li> <li>Refer to E23.14 and E23.15.17 Structural Specifications for floor loading.</li> <li>Refer to E23.15.7 and Equipment list Appendix L; Structural, Mechanical and Electrical requirements for all items to be supported by structure.</li> <li>Overhead curtain system for welding and pressure washing systems to be hung from roof structure</li> </ul>		<b>Temp.</b> <u>80F</u> <b>View Out Ext.</b> _____ <b>Humidity</b> <u>60%</u> <b>View Out Int.</b> _____ <b>View In</b> _____ <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>Winter conditions permitted to be 68F</li> <li>Humidity control not required</li> </ul>		<ul style="list-style-type: none"> <li>In-floor hoists NEQ-01 (1-60' bay hoist to be water resistant for bus washing)</li> <li>Hose reel fluid dispensing system NEQ-02</li> <li>Fall arrest protection to be designed as per Structural specifications. Locations to be determined in design phase with Transit.</li> <li>Exhaust extraction system equipment</li> <li>Work benches at each bay</li> <li>Particulate extraction NEQ-09</li> <li>One (1) pressure washing system in 60' bay NEQ-11</li> <li>Overhead curtain system for containment, suitable for pressure washing system.</li> </ul>	
<b>Electrical Services</b>		<b>Illumination</b>		<b>Room Finishes</b>	
<b>Power</b> _____ <b>TV</b> _____ <b>Comp</b> _____ <b>AV</b> _____ <b>Tel</b> _____ <b>PA</b> _____ <b>CCTV</b> _____ <b>Wireless</b> _____ <b>Other:</b> <ul style="list-style-type: none"> <li>1 quad receptacle at every bay (separate circuits).</li> <li>Welding plug (1 station shared)</li> </ul>		<b>Ft. Candles</b> _____ <b>Daylight</b> <u>X</u> <b>Fluor.</b> _____ <b>Quartz</b> _____ <b>LED</b> <u>X</u> <b>Incand.</b> _____ <b>Special</b> _____ <b>Other:</b>		<b>Floor:</b> <ul style="list-style-type: none"> <li>Polished, sealed concrete</li> </ul> <b>Walls:</b> <ul style="list-style-type: none"> <li>Refer to E23.7.1 complete with 200 mm CMU to underside of structure – painted. Block to be flush with</li> </ul>	

Appendix H R3  
860198-0117(8.0)

<p>between every two bays)</p> <ul style="list-style-type: none"> <li>Overhead 120V/30A/1Ph/60Hz drop c/w twist-lock 30A receptacle for portable exhaust unit NEQ-09. (1 drop shared per every two adjacent bays).</li> <li>Refer to Appendix L for specific electrical requirements to equipment.</li> <li>All duplex receptacles in the garage and shops area to be 120V 20A circuits.</li> <li>Power for pressure washing system NEQ-11</li> </ul>		<p>face of concrete.</p> <p><b>Ceiling:</b></p> <ul style="list-style-type: none"> <li>Exposed Structure - painted</li> </ul>
<p><b>Mechanical Services</b></p> <p>Hot W. ____ Cold W. ____          Drain ____ perimeter trench drains four (4) for pressure washing system ____          Exhaust _____          Air _____          Climate Controlled? ____ Yes ____          Other:</p> <ul style="list-style-type: none"> <li>Exhaust for bus fumes</li> <li>Compressed air             <ul style="list-style-type: none"> <li>Overhead - 2 x 3/8" dia. (1 @ 130psi, 1 @ 120 psi)</li> <li>Wall - 1 x 1" dia. lines @ 130 psi</li> </ul> </li> <li>Refer to Appendix L for specific mechanical requirements to equipment.</li> </ul>	<p><b>Comments</b></p> <ul style="list-style-type: none"> <li>Configure 18,288mm (60') bus bays on south complete with overhead doors to allow direct access to exterior</li> <li>2,438mm (8'-0") clear between buses.</li> <li>Alternate the compressed air connections and welding connections at wall locations between bays</li> <li>Alternate overhead compressed air connections and fluid dispensing systems at ceiling locations between bays.</li> <li>All roof structure at bus bays shall be designed to accommodate the loads required for a future addition of a fall arrest system similar to those required in specific bus bays under this RFP. Proponents structural drawings shall locate and identify the allowable loads for each proposed future fall arrest system.</li> <li>Any compressed air high pressure loop to be by Trans Air, or approved equivalent.</li> <li>30' buses will be serviced at any 40' bus bay location</li> <li>Confirm exhaust unit MOCP with manufacturer prior to procurement of the equipment.</li> </ul>	

**Room Data Sheet  
Preliminary Programming**

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-1.2	<b>Refurbishing Service Bay</b>	<ul style="list-style-type: none"> <li>1 stall for 18288mm (60') long bus</li> <li>3 stalls for 12192mm (40') long bus long</li> </ul>	1600 + (1200 x 3) = 5,200 SF/ 483M <sup>2</sup>		<ul style="list-style-type: none"> <li>Off main drive aisle</li> </ul>
<b>Activity Description</b>		<b>Acoustic Treatment</b>		<b>Occupancy / Loading Standards</b>	
<ul style="list-style-type: none"> <li>Complete refurbishing of buses including: torching, welding, grinding, panel removal, component removal.</li> </ul>		<b>Sound Iso.</b> _____ <b>DBA</b> _____ <b>Sound Ins.</b> _____ <b>Rev. Time</b> _____		2 – 4 persons	
<b>Access</b>		<b>Security</b>		<b>Flexibility</b>	
<ul style="list-style-type: none"> <li>Interior drive in access off main drive aisle</li> <li>All exterior personnel exits and overhead exits require a reinforced concrete pad which should be tied structurally to the building foundation wall.</li> </ul>		<ul style="list-style-type: none"> <li>Building Perimeter</li> </ul>		<ul style="list-style-type: none"> <li>Single use space</li> </ul>	
<b>Structure</b>		<b>Environment</b>		<b>Equipment</b>	
<p><b>Height</b> 5791mm clear (match existing garage)</p> <p><b>Clear Span</b> <u>yes</u></p> <p><b>Floor Loading</b> _____ psf _____</p> <p><b>Spec. Req:</b></p> <ul style="list-style-type: none"> <li>Refer to E23.8 Structural Specifications on requirements for fall arrest system design.</li> <li>Refer to E23.7.1 Structural Specifications for Wall Impact Resistance</li> <li>Refer to E23.14 and E23.15.17 Structural Specifications for floor loading.</li> <li>Refer to Equipment lists Appendix L; Mechanical and Electrical requirements for all items to be supported by structure.</li> <li>Refer to E23.15.7. Exhaust extraction system equipment to be supported by roof structure.</li> <li>Refer to Equipment list Appendix L; Structural, Mechanical and Electrical requirements for all items to be supported by structure.</li> </ul>		<p><b>Temp.</b> <u>80F</u> <b>View Out Ext.</b> _____</p> <p><b>Humidity</b> <u>60%</u> <b>View Out Int.</b> _____</p> <p><b>View In</b> _____</p> <p><b>Spec. Req:</b></p> <ul style="list-style-type: none"> <li>Winter conditions permitted to be 68F</li> <li>Humidity control not required</li> </ul>		<ul style="list-style-type: none"> <li>In-floor hoists NEQ-01</li> <li>Hose reel fluid dispensing system NEQ-02</li> <li>Fall arrest protection to be designed as per Structural specifications. Locations to be determined in design phase with Transit.</li> <li>Overhead curtain system for containment, suitable for welding.</li> <li>Central Vacuum system. Refer to E24.5.11</li> <li>Particulate extraction NEQ-09</li> </ul>	
<b>Electrical Services</b>		<b>Illumination</b>		<b>Room Finishes</b>	
<b>Power</b> _____ <b>TV</b> _____ <b>Comp</b> _____ <b>AV</b> _____ <b>Tel</b> _____ <b>PA</b> _____		<b>Ft. Candles</b> _____ <b>Daylight</b> <u>X</u> <b>Fluor.</b> _____ <b>Quartz</b> _____ <b>LED:</b> <u>X</u>		<b>Floor:</b> <ul style="list-style-type: none"> <li>Polished, sealed concrete</li> </ul>	

Appendix H R3  
860198-0117(8.0)

<p><b>CCTV</b> ____ <b>Wireless</b> ____ <b>Other:</b></p> <ul style="list-style-type: none"> <li>• 1 quad receptacle at each bay (separate circuits)</li> <li>• 1 additional 220V welding plug</li> <li>• Welding plug (1 station shared between every two bays)</li> <li>• Refer to Appendix L for specific electrical requirements to equipment.</li> <li>• All duplex receptacles in the garage and shops area to be 120V 20A circuits.</li> <li>• Hoist to be provided with 208V 3ph outlet for portable dust extractor/vacuum</li> </ul>	<p><b>Incand.</b> ____ <b>Special</b> ____ <b>Other:</b></p>	<p><b>Walls:</b></p> <ul style="list-style-type: none"> <li>• Refer to E23.7.1 complete with 200 mm CMU to underside of structure – painted. Block to be flush with face of concrete.</li> </ul> <p><b>Ceiling:</b></p> <ul style="list-style-type: none"> <li>• Exposed Structure - painted</li> </ul>
<p><b>Mechanical Services</b></p> <p><b>Hot W.</b> __Y__ <b>Cold W.</b> __Y__ <b>Drain</b> _____ <b>Exhaust</b> _____ <b>Air</b> _____ <b>Climate Controlled?</b> __Yes____ <b>Other:</b></p> <ul style="list-style-type: none"> <li>• Exhaust for bus fumes</li> <li>• Overhead breathing air station</li> <li>• Compressed air (1 station shared between every two bays) <ul style="list-style-type: none"> <li>• Overhead - 2 x 3/8" dia. (1 @ 130psi, 1 @ 120 psi)</li> <li>• Wall – 1 x 1" dia. lines @ 130 psi</li> </ul> </li> <li>• Refer to Appendix L for specific mechanical requirements to equipment.</li> </ul>	<p><b>Comments</b></p> <ul style="list-style-type: none"> <li>• 3,048mm (10'-0") clear between buses. All roof structure at bus bays shall be designed to accommodate the loads required for a future addition of a fall arrest system similar to those required in specific bus bays under this RFP. Proponents structural drawings shall locate and identify the allowable loads for each proposed future fall arrest system.</li> <li>• Any compressed air high pressure loop to be by Trans Air, or approved equivalent.</li> <li>• Clear volume and entry point with sufficient maintenance access free of all structure, vertical and horizontal ducts or conduits, lights, etc.</li> <li>• 30' buses will be serviced at any 40' bus bay location</li> </ul>	

**Room Data Sheet  
Preliminary Programming**

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-1.3	<b>Body Repair Bay</b>	<ul style="list-style-type: none"> <li>8 stalls for 1292mm (40') long buses</li> <li>1 stall for 18288mm (60') long buses</li> </ul>	(8 x 1023) + (1 x 1320) = 9504 SF/883M <sup>2</sup>		<ul style="list-style-type: none"> <li>Off main drive aisle</li> <li>Exterior</li> </ul>
<b>Activity Description</b>		<b>Acoustic Treatment</b>		<b>Occupancy / Loading Standards</b>	
<ul style="list-style-type: none"> <li>Bus body repair and maintenance door repairs, glass replacement, body work</li> </ul>		<b>Sound Iso.</b> _____ <b>DBA</b> _____ <b>Sound Ins.</b> _____ <b>Rev. Time</b> _____		<ul style="list-style-type: none"> <li>2 persons / bay</li> </ul>	
<b>Access</b>		<b>Security</b>		<b>Flexibility</b>	
<ul style="list-style-type: none"> <li>Drive through for 18288mm (60') bays (exterior overhead door)</li> <li>Interior drive in access off main drive aisle</li> <li>All exterior personnel exits and overhead exits require a reinforced concrete pad which should be tied structurally to the building foundation wall.</li> </ul>		<ul style="list-style-type: none"> <li>Building Perimeter</li> </ul>		<ul style="list-style-type: none"> <li>Single use space</li> </ul>	
<b>Structure</b>		<b>Environment</b>		<b>Equipment</b>	
<b>Height</b> 5791 mm clear (match existing garage) <b>Clear Span</b> <u>yes</u> <b>Floor Loading</b> _____ psf _____ <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>Refer to E23.8 Structural Specifications on requirements for fall arrest system design.</li> <li>Refer to E23.14 and E23.15.17 Structural Specifications for floor loading.</li> <li>Refer to Equipment list Appendix L; Structural, Mechanical and Electrical requirements for all items to be supported by structure.</li> </ul>		<b>Temp.</b> <u>80F</u> <b>View Out Ext.</b> _____ <b>Humidity</b> <u>60%</u> <b>View Out Int.</b> _____ <b>View In</b> _____ <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>Winter conditions permitted to be 68F</li> <li>Humidity control not required</li> </ul>		<ul style="list-style-type: none"> <li>In-floor hoists NEQ-01</li> <li>Particulate extraction NEQ-09</li> <li>Hose reel fluid dispensing system NEQ-02</li> <li>Fall arrest protection to be designed as per Structural specifications. Locations to be determined in design phase with Transit.</li> </ul>	
<b>Electrical Services</b>		<b>Illumination</b>		<b>Room Finishes</b>	
<b>Power</b> _____ <b>TV</b> _____ <b>Comp</b> _____ <b>AV</b> _____ <b>Tel</b> _____ <b>PA</b> _____ <b>CCTV</b> _____ <b>Wireless</b> _____ <b>Other:</b> <ul style="list-style-type: none"> <li>1 quad receptacle at every bay (separate circuits)</li> <li>Welding plug (1 station shared between every two bays) at wall</li> <li>Refer to Appendix L for specific electrical requirements to equipment.</li> </ul>		<b>Ft. Candles</b> _____ <b>Daylight</b> <u>X</u> <b>Fluor.</b> _____ <b>Quartz</b> _____ <b>LED</b> <u>X</u> <b>Incand.</b> _____ <b>Special</b> _____ <b>Other:</b>		<b>Floor:</b> <ul style="list-style-type: none"> <li>Polished, sealed concrete</li> </ul> <b>Walls:</b> <ul style="list-style-type: none"> <li>Refer to E23.7.1 complete with 200 mm CMU to underside of structure – painted. Block to be flush with face of concrete.</li> </ul> <b>Ceiling:</b>	

Appendix H R3  
860198-0117(8.0)

<ul style="list-style-type: none"> <li>• All duplex receptacles in the garage and shops area to be 120V 20A circuits.</li> <li>• Overhead 120V/30A/1Ph/60Hz drop c/w twist-lock 30A receptacle for portable exhaust unit NEQ-09. (1 drop shared per every two adjacent bays).</li> </ul>		<ul style="list-style-type: none"> <li>• Exposed Structure - painted</li> </ul>
<p><b>Mechanical Services</b></p> <p>Hot W. ____ Cold W. ____          Drain _____          Exhaust _____          Air _____          Climate Controlled? ____Yes ____          Other:</p> <ul style="list-style-type: none"> <li>• Exhaust for bus fumes</li> <li>• Overhead breathing air station at 5 locations TBC by City</li> <li>• Compressed air             <ul style="list-style-type: none"> <li>• Overhead - 2 x 3/8" dia. (1 @ 130psi, 1 @ 120 psi)</li> <li>• Wall – 1 x 1" dia. lines @ 130 psi</li> </ul> </li> <li>• Refer to Appendix L for specific mechanical requirements to equipment.</li> </ul>	<p><b>Comments</b></p> <ul style="list-style-type: none"> <li>• Configure 18,288mm (60'-0") bays on south complete with overhead doors to allow direct access to exterior</li> <li>• 2,438mm (8'-0") clear between buses.</li> <li>• Alternate the compressed air connections and welding connections at wall locations between bays</li> <li>• Alternate overhead compressed air connections and fluid dispensing systems at ceiling locations between bays.</li> <li>• All roof structure at bus bays shall be designed to accommodate the loads required for a future addition of a fall arrest system similar to those required in specific bus bays under this RFP. Proponents structural drawings shall locate and identify the allowable loads for each proposed future fall arrest system.</li> <li>• Any compressed air high pressure loop to be by Trans Air, or approved equivalent.</li> <li>• 30' buses will be serviced at any 40' bus bay location.</li> <li>• Confirm exhaust unit MOCP with manufacturer prior to procurement of the equipment.</li> </ul>	

**Room Data Sheet  
Preliminary Programming**

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-1.4	Main Drive Aisle	1	Width and alignment to match existing	1	<ul style="list-style-type: none"> <li>• Typical Service Bay</li> <li>• Refurbishing Service Bay</li> <li>• Body Repair Bay</li> <li>• Exterior</li> </ul>
<b>Activity Description</b>		<b>Acoustic Treatment</b>		<b>Occupancy / Loading Standards</b>	
<ul style="list-style-type: none"> <li>• Main traffic aisle for movement into and out of garage addition</li> </ul>		<b>Sound Iso.</b> ____ <b>DBA</b> ____ <b>Sound Ins.</b> ____ <b>Rev. Time</b> ____		<ul style="list-style-type: none"> <li>• 2 persons / bay</li> </ul>	
<b>Access</b>		<b>Security</b>		<b>Flexibility</b>	
<ul style="list-style-type: none"> <li>• Through existing garage Exit through exterior overhead door</li> <li>• All exterior personnel exits and overhead exits require a reinforced concrete pad which should be tied structurally to the building foundation wall.</li> </ul>		<ul style="list-style-type: none"> <li>• Building Perimeter</li> </ul>		<ul style="list-style-type: none"> <li>• Single use space</li> </ul>	
<b>Structure</b>		<b>Environment</b>		<b>Equipment</b>	
<b>Height</b> 5791 mm clear (match existing garage) <b>Clear Span</b> <u>yes</u> <b>Floor Loading</b> _____ psf _____ <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>• Refer to E23.8 Structural Specifications on requirements for fall arrest system design.</li> <li>• Refer to E23.14 and E23.15.17 Structural Specifications for floor loading.</li> <li>• Refer to Equipment list Appendix L; Structural, Mechanical and Electrical requirements for all items to be supported by structure.</li> </ul>		<b>Temp.</b> <u>80F</u> <b>View Out Ext.</b> ____ <b>Humidity</b> <u>60%</u> <b>View Out Int.</b> ____ <b>View In</b> ____ <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>• Winter conditions permitted to be 68F</li> <li>• Humidity control not required</li> </ul>		<ul style="list-style-type: none"> <li>• Oil interceptors</li> <li>• Drains</li> </ul>	
<b>Electrical Services</b>		<b>Illumination</b>		<b>Room Finishes</b>	
<b>Power</b> ____ <b>TV</b> ____ <b>Comp</b> ____ <b>AV</b> ____ <b>Tel</b> ____ <b>PA</b> ____ <b>CCTV</b> ____ <b>Wireless</b> ____ <b>Other:</b>		<b>Ft. Candles</b> ____ <b>Daylight</b> <u>X</u> <b>Fluor.</b> ____ <b>Quartz</b> ____ <b>LED</b> <u>X</u> <b>Incand.</b> ____ <b>Special</b> ____ <b>Other:</b>		<b>Floor:</b> <ul style="list-style-type: none"> <li>• Polished, sealed concrete</li> </ul> <b>Walls:</b> <ul style="list-style-type: none"> <li>• Refer to E23.7.1 complete with 200 mm CMU to underside of structure – painted. Block to be flush with face of concrete.</li> </ul> <b>Ceiling:</b> <ul style="list-style-type: none"> <li>• Exposed Structure – painted</li> </ul>	
<b>Mechanical Services</b>		<b>Comments</b>			
<b>Hot W.</b> ____ <b>Cold W.</b> ____ <b>Drain</b> _____ <b>Exhaust</b> _____ <b>Air</b> _____ <b>Climate Controlled?</b> <u>Yes</u>		<ul style="list-style-type: none"> <li>• Traffic intended to be one way</li> <li>• New south overhead doors should be as per E21.15</li> <li>• Existing west overhead door to remain</li> </ul>			

**Room Data Sheet  
Preliminary Programming**

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-2.1	<b>Weld Shop</b>	1	12,350sf/1147m <sup>2</sup> *entire shops area		Body Shop
<b>Activity Description</b>		<b>Acoustic Treatment</b>		<b>Occupancy / Loading Standards*</b>	
<ul style="list-style-type: none"> <li>• Metal cutting</li> <li>• Metal bending</li> <li>• Plasma cutters</li> <li>• MIG or TIG welders</li> <li>• Hoist repairs</li> </ul>		<b>Sound Iso. _____ DBA _____</b>  <b>Sound Ins. _____ Rev. Time _____</b>		<ul style="list-style-type: none"> <li>• ±18 persons:</li> <li>• 2 supervisors</li> <li>• 1 estimator</li> <li>• 3 upholsterer</li> <li>• 5 bodymen</li> <li>• 2 sheet metal</li> <li>• 5 welders</li> </ul> *Note: this is for entire shops area	
<b>Access</b>		<b>Security</b>		<b>Flexibility</b>	
<ul style="list-style-type: none"> <li>• All exterior personnel exits and overhead exits require a reinforced concrete pad which should be tied structurally to the building foundation wall.</li> </ul>		<ul style="list-style-type: none"> <li>• Building Perimeter</li> </ul>		<ul style="list-style-type: none"> <li>• Multiple functionality</li> <li>• Curtains to break-up area around plasma cutters</li> </ul>	
<b>Structure</b>		<b>Environment</b>		<b>Equipment</b>	
Height <u>5791mm clear</u> Clear Span <u>yes</u> Floor Loading _____ psf _____ <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>• Refer to E23.14 Strucural Specifications for floor loading.</li> <li>• Refer to E23.14 and E23.9 and Equipment list Appendix L; Structural, Mechanical and Electrical requirements for all items to be supported by structure.</li> </ul>		Temp. <u>80F</u> View Out Ext. _____ Humidity <u>60%</u> View Out Int. _____ View In _____ <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>• Winter conditions permitted to be 68F</li> <li>• Humidity control not required</li> </ul>		<ul style="list-style-type: none"> <li>• Anvil EQ-01</li> <li>• Delta Belt sander EQ-02</li> <li>• ERMX Hyd Shear SHE01</li> <li>• DC39 Bench Grinder EQ-09</li> <li>• D654 150 ton press EQ-11</li> <li>• Dm-12 Bandsaw SAW01</li> <li>• Piranha P50 PIR01</li> <li>• Welding booths EQ-12 -16</li> <li>• Power hammer and stand EQ-17</li> <li>• Rod oven EQ-18</li> <li>• Welder's Bench EQ-28-29, EQ-30, EQ-31</li> <li>• Plasma cutting table EQ-32</li> <li>• Blacksmith table EQ-33</li> <li>• Welding table EQ-34</li> <li>• Sheet metal racking EQ-35</li> <li>• Metal storage racking EQ-38</li> <li>• Storage cabinet EQ-44, EQ-46-47</li> <li>• Tool cabinet EQ-45</li> <li>• Overhead crane 5,000lb capacity (New, supplied by Contractor, Manufacturer to be approved by City during design)</li> </ul>	
<b>Electrical Services</b>		<b>Illumination</b>		<b>Room Finishes</b>	
Power _____ TV _____ Comp _____ AV _____ Tel _____ PA _____ CCTV _____ Wireless _____ <b>Other:</b> <ul style="list-style-type: none"> <li>• Refer to Appendix L for specific electrical requirements to equipment.</li> <li>• Provide 120V 15A convenience receptacles. Minimum 2 circuits per space. Maximum six duplex outlets per circuit. Outlets shall</li> </ul>		Ft. Candles _____ Daylight <u>X</u> Fluor. _____ Quartz _____ LED: <u>X</u> Incand. _____ Special _____ <b>Other:</b>		<b>Floor:</b> <ul style="list-style-type: none"> <li>• Polished concrete</li> </ul> <b>Walls:</b> <ul style="list-style-type: none"> <li>• CMU to underside of deck</li> </ul> <b>Ceiling:</b> <ul style="list-style-type: none"> <li>• Exposed structure - painted</li> </ul>	



Appendix H R3  
860198-0117(8.0)

be located every 3m along the perimeter walls within the space.		
<b>Mechanical Services</b>  Hot W. ____ Cold W. ____ Drain _____ Exhaust _____ Air _____ Climate Controlled? ____ Yes ____ Other:  <ul style="list-style-type: none"> <li>• Refer to Appendix L for specific mechanical requirements to equipment.</li> </ul>	<b>Comments</b>  <ul style="list-style-type: none"> <li>• Crane permitted to be shared with Body Shop</li> <li>• Refer to Body Shop equipment list. Layout may overlap into adjacent space.</li> </ul>	

Appendix H R3  
860198-0117(8.0)

**Room Data Sheet  
Preliminary Programming**

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-2.2	<b>Body Shop</b>	1	*12,350 SF/1147M <sup>2</sup> *entire shops area		<ul style="list-style-type: none"> <li>• Body Repair Bay</li> <li>• Weld Shop</li> </ul>
<b>Activity Description</b>		<b>Acoustic Treatment</b>		<b>Occupancy / Loading Standards*</b>	
<ul style="list-style-type: none"> <li>• Metal cutting</li> <li>• Metal bending</li> <li>• Plasma cutters</li> <li>• MIG or TIG welders</li> <li>• Repair hoists</li> </ul>		<b>Sound Iso. _____ DBA _____</b>  <b>Sound Ins. _____ Rev. Time _____</b>		<ul style="list-style-type: none"> <li>• ±18 persons:</li> <li>• 2 supervisors</li> <li>• 1 estimator</li> <li>• 3 upholsterer</li> <li>• 5 bodymen</li> <li>• 2 sheet metal</li> <li>• 5 welders</li> </ul> *Note: this is for the entire shops area	
<b>Access</b>		<b>Security</b>		<b>Flexibility</b>	
<ul style="list-style-type: none"> <li>• All exterior personnel exits and overhead exits require a reinforced concrete pad which should be tied structurally to the building foundation wall.</li> </ul>		<ul style="list-style-type: none"> <li>• Building Perimeter</li> </ul>		<ul style="list-style-type: none"> <li>• Multiple functionality</li> <li>• Curtains to break-up area around plasma cutters</li> </ul>	
<b>Structure</b>		<b>Environment</b>		<b>Equipment</b>	
Height <u>5791mm</u> clear Clear Span <u>yes</u> Floor Loading _____ psf  <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>• Refer to E23.14 and E23.15.17 Strucural Specifications for floor loading.</li> <li>• Refer to E23.14 and E23.9 and Equipment list Appendix L; Structural, Mechanical and Electrical requirements for all items to be supported by structure.</li> </ul>		Temp. <u>80F</u> View Out Ext. _____ Humidity <u>60%</u> View Out Int. _____ View In _____ <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>• Winter conditions permitted to be 68F</li> <li>• Humidity control not required</li> </ul>		<ul style="list-style-type: none"> <li>• Hand brake HB01, HB02, HB03, HB04</li> <li>• Belt grinder EQ-03</li> <li>• Roller EQ-04, EQ-05</li> <li>• Power shear SHE02</li> <li>• Drill press EQ-06</li> <li>• Grinders EQ-07, EQ-08</li> <li>• Spot welder EQ-10,</li> <li>• Sand blast cabinet SB01</li> <li>• Work bench EQ-19, EQ-20, EQ-21, EQ-22, EQ-23, EQ-25, EQ-26, EQ-27</li> <li>• Workbench with sheet metal punch EQ-24</li> <li>• Work bench with shear SHE03</li> <li>• Sheet metal racking EQ-36, EQ-37</li> <li>• Cupboards/cabinets/shelves EQ-39, EQ-40, EQ-41, EQ-42, EQ-43</li> <li>• Bolt bin storage and cabinets EQ-48, EQ-49</li> <li>• Overhead crane 5,000lb capacity (New, supplied by Contractor, Manufacturer to be approved by City during design)</li> <li>• Dedicated hood for plasma cutting</li> <li>• Particulate extraction NEQ-09</li> </ul>	
<b>Electrical Services</b>		<b>Illumination</b>		<b>Room Finishes</b>	
Power _____ TV _____ Comp _____ AV _____ Tel _____ PA _____ CCTV _____ Wireless _____ Other: _____		Ft. Candles _____ Daylight <u>X</u> Fluor. _____ Quartz _____ LED: <u>X</u> Incand. _____ Special _____ Other: _____		<b>Floor:</b> <ul style="list-style-type: none"> <li>• Polished concrete</li> </ul> <b>Walls:</b>	

Appendix H R3  
860198-0117(8.0)

<ul style="list-style-type: none"> <li>• Refer to Appendix L for specific electrical requirements to equipment.</li> <li>• Provide 120V 15A convenience receptacles. Minimum 2 circuits per space. Maximum six duplex outlets per circuit. Outlets shall be located every 3m along the perimeter walls within the space.</li> <li>• Overhead 120V/30A/1Ph/60Hz drop c/w twist-lock 30A receptacle for portable exhaust unit NEQ-09. (1 drop shared per every two adjacent bays).</li> </ul>		<ul style="list-style-type: none"> <li>• Refer to E23.7.1 complete with 200 mm CMU to underside of structure – painted. Block to be flush with face of concrete.</li> </ul> <p><b>Ceiling:</b></p> <ul style="list-style-type: none"> <li>• Exposed structure - painted</li> </ul>
<p><b>Mechanical Services</b></p> <p>Hot W. ____ Cold W. ____          Drain _____          Exhaust _____          Air _____          Climate Controlled? ___Yes___          Other:</p> <ul style="list-style-type: none"> <li>• Refer to Appendix L for specific mechanical requirements to equipment.</li> </ul>	<p><b>Comments</b></p> <ul style="list-style-type: none"> <li>• Crane permitted to be shared with Weld Shop</li> <li>• Refer to Weld Shop equipment list. Layout may overlap into adjacent space.</li> <li>• Confirm exhaust unit MOCP with manufacturer prior to procurement of the equipment.</li> </ul>	

**Room Data Sheet  
Preliminary Programming**

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-2.3	<b>Upholstery Shop</b>	1	*12,350 SF/1147M <sup>2</sup> *entire shops area	1	<ul style="list-style-type: none"> <li>Weld Shop</li> <li>Body Shop</li> </ul>
<b>Activity Description</b>		<b>Acoustic Treatment</b>		<b>Occupancy / Loading Standards</b>	
<ul style="list-style-type: none"> <li>Bench work</li> <li>Sewing</li> <li>Seat repair</li> </ul>		<b>Sound Iso.</b> _____ <b>DBA</b> _____  <b>Sound Ins.</b> _____ <b>Rev. Time</b> _____		<ul style="list-style-type: none"> <li>±18 persons:</li> <li>2 supervisors</li> <li>1 estimator</li> <li>3 upholsterer</li> <li>5 bodymen</li> <li>2 sheet metal</li> <li>5 welders</li> </ul> *Note: this is for the entire shops area	
<b>Access</b>		<b>Security</b>		<b>Flexibility</b>	
<ul style="list-style-type: none"> <li>All exterior personnel exits and overhead exits require a reinforced concrete pad which should be tied structurally to the building foundation wall.</li> </ul>		<ul style="list-style-type: none"> <li>Building Perimeter</li> </ul>		<ul style="list-style-type: none"> <li>Multiple functionality</li> <li>Curtains to break-up area around plasma cutters</li> </ul>	
<b>Structure</b>		<b>Environment</b>		<b>Equipment</b>	
<b>Height</b> <u>5791mm clear</u> <b>Clear Span</b> <u>yes</u> <b>Floor Loading</b> _____ psf _____ <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>Refer to E23.14 and E23.15.17 Structural Specifications for floor loading.</li> <li>Refer to E23.15.7 and Equipment list Appendix L; Structural, Mechanical and Electrical requirements for all items to be supported by structure.</li> </ul>		<b>Temp.</b> <u>80F</u> <b>View Out Ext.</b> _____ <b>Humidity</b> <u>60%</u> <b>View Out Int.</b> _____ <b>View In</b> _____ <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>Winter conditions permitted to be 68F</li> <li>Humidity control not required</li> </ul>		<ul style="list-style-type: none"> <li>2 sewing machines EQ-50</li> <li>1 small bandsaw EQ-51</li> <li>1 pedestal grinder EQ-52</li> <li>Metal cutting</li> <li>Metal bending</li> <li>Plasma cutters</li> <li>MIG or TIG welders</li> <li>Repair hoists</li> </ul>	
<b>Electrical Services</b>		<b>Illumination</b>		<b>Room Finishes</b>	
<b>Power</b> _____ <b>TV</b> _____ <b>Comp</b> _____ <b>AV</b> _____ <b>Tel</b> _____ <b>PA</b> _____ <b>CCTV</b> _____ <b>Wireless</b> _____ <b>Other:</b> <ul style="list-style-type: none"> <li>Refer to Appendix L for specific electrical requirements to equipment.</li> <li>Provide 120V 15A convenience receptacles. Minimum 2 circuits per space. Maximum six duplex outlets per circuit. Outlets shall be located every 3m along the perimeter walls within the space.</li> </ul>		<b>Ft. Candles</b> _____ <b>Daylight</b> <u>X</u> <b>Fluor.</b> _____ <b>Quartz</b> _____ <b>LED:</b> <u>X</u> <b>Incand.</b> _____ <b>Special</b> _____ <b>Other:</b>		<b>Floor:</b> <ul style="list-style-type: none"> <li>Polished concrete</li> </ul> <b>Walls:</b> <ul style="list-style-type: none"> <li>Refer to E23.7.1 complete with 200 mm CMU to underside of structure – painted. Block to be flush with face of concrete.</li> </ul> <b>Ceiling:</b> <ul style="list-style-type: none"> <li>Exposed structure - painted</li> </ul>	

Appendix H R3  
860198-0117(8.0)

<b>Mechanical Services</b>	<b>Comments</b>
<p>Hot W. ____ Cold W. ____ Drain _____ Exhaust _____ Air _____ Climate Controlled? __Yes_____ Other:</p> <ul style="list-style-type: none"><li>• Separate ventilation from adjacent shop spaces.</li><li>• Refer to Appendix L for specific mechanical requirements to equipment.</li></ul>	<ul style="list-style-type: none"><li>• Must be clean shop space.</li><li>• Environmental and physical separation required.</li><li>• Refer to Appendix O for existing upholstery shop layout</li></ul>

**Room Data Sheet  
Preliminary Programming**

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-3.1	<b>Welding Stores</b>	1	4,500 SF/418M <sup>2</sup>	1	<ul style="list-style-type: none"> <li>Weld Shop</li> <li>Exterior (Receiving)</li> <li>Existing Stores</li> </ul>
<b>Activity Description</b>		<b>Acoustic Treatment</b>		<b>Occupancy / Loading Standards</b>	
<ul style="list-style-type: none"> <li>Storage for raw materials</li> <li>Cutting saw</li> <li>Check out desk/parts wicket</li> <li>Material delivery</li> </ul>		<b>Sound Iso.</b> _____ <b>DBA</b> _____ <b>Sound Ins.</b> _____ <b>Rev. Time</b> _____		<ul style="list-style-type: none"> <li>1 or 2 persons</li> </ul>	
<b>Access</b>		<b>Security</b>		<b>Flexibility</b>	
<ul style="list-style-type: none"> <li>Double Dutch door. Width and height enough for forklift to go through</li> <li>Receiving bay</li> <li>All exterior personnel exits and overhead exits require a reinforced concrete pad which should be tied structurally to the building foundation wall.</li> </ul>		<ul style="list-style-type: none"> <li>Lockable interior door</li> <li>Secure exterior overhead door</li> </ul>		<ul style="list-style-type: none"> <li>Single use.</li> </ul>	
<b>Structure</b>		<b>Environment</b>		<ul style="list-style-type: none"> <li>Paint</li> </ul>	
<b>Height</b> <u>5791mm clear</u> <b>Clear Span</b> <u>no columns</u> <b>Floor Loading</b> _____ <b>psf</b>  <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>Refer to E23.14 Structural Specifications for floor loading.</li> <li>Refer to E23.15.7 and Equipment list Appendix L; Structural, Mechanical and Electrical requirements for all items to be supported by structure.</li> </ul>		<b>Temp.</b> <u>80F</u> <b>View Out Ext.</b> _____ <b>Humidity</b> <u>60%</u> <b>View Out Int.</b> _____ <b>View In</b> _____ <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>Winter conditions permitted to be 68F</li> <li>Humidity control not required</li> </ul>			
<b>Electrical Services</b>		<b>Illumination</b>		<b>Room Finishes</b>	
<b>Power</b> _____ <b>TV</b> _____ <b>Comp</b> _____ <b>AV</b> _____ <b>Tel</b> _____ <b>PA</b> _____ <b>CCTV</b> _____ <b>Wireless</b> _____ <b>Other:</b> <ul style="list-style-type: none"> <li>Refer to Appendix L for specific electrical requirements to equipment.</li> <li>Provide 120V 15A convenience receptacles. Minimum 2 circuits per space. Maximum six duplex outlets per circuit. Outlets shall be located every 3m along the perimeter walls within the space.</li> </ul>		<b>Ft. Candles</b> _____ <b>Daylight</b> <u>X</u> <b>Floor.</b> _____ <b>Quartz</b> _____ <b>LED:</b> <u>X</u> <b>Incand.</b> _____ <b>Special</b> _____ <b>Other:</b>		<b>Floor:</b> <ul style="list-style-type: none"> <li>Sealed concrete</li> </ul> <b>Walls:</b> <ul style="list-style-type: none"> <li>Refer to E23.7.1 complete with 200 mm CMU to underside of structure – painted. Block to be flush with face of concrete.</li> </ul> <b>Ceiling:</b> <ul style="list-style-type: none"> <li>Exposed structure - painted</li> </ul>	

Appendix H R3  
860198-0117(8.0)

<p><b>Mechanical Services</b></p> <p>Hot W. ____ Cold W. ____</p> <p>Drain _____</p> <p>Exhaust _____</p> <p>Air _____</p> <p>Climate Controlled?  <input type="checkbox"/> Yes _____</p> <p>Other: _____</p>	<p><b>Comments</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="5" style="text-align: center;">Metal Delivery Trucks</th> </tr> <tr> <th style="width: 30%;"></th> <th style="width: 15%;">Length</th> <th style="width: 15%;">Width</th> <th style="width: 15%;">Deck Height</th> <th style="width: 25%;"></th> </tr> </thead> <tbody> <tr> <td>ASA Alloys</td> <td style="text-align: center;">32'</td> <td style="text-align: center;">8'4"</td> <td style="text-align: center;">50"</td> <td></td> </tr> <tr> <td>Dave Copp Steel</td> <td style="text-align: center;">24'</td> <td style="text-align: center;">8'7"</td> <td style="text-align: center;">48"</td> <td>Freightliner</td> </tr> <tr> <td></td> <td style="text-align: center;">24'</td> <td style="text-align: center;">8'4"</td> <td style="text-align: center;">51"</td> <td>International</td> </tr> <tr> <td></td> <td style="text-align: center;">24'</td> <td style="text-align: center;">8'5"</td> <td style="text-align: center;">32"</td> <td>9000 lbs trailer pulled by 3/4 ton truck</td> </tr> <tr> <td>Atlas Welding</td> <td style="text-align: center;">37'</td> <td style="text-align: center;">8'6"</td> <td style="text-align: center;">50"</td> <td>Big truck</td> </tr> <tr> <td></td> <td style="text-align: center;">21'</td> <td></td> <td style="text-align: center;">50"</td> <td>Small truck</td> </tr> </tbody> </table>	Metal Delivery Trucks						Length	Width	Deck Height		ASA Alloys	32'	8'4"	50"		Dave Copp Steel	24'	8'7"	48"	Freightliner		24'	8'4"	51"	International		24'	8'5"	32"	9000 lbs trailer pulled by 3/4 ton truck	Atlas Welding	37'	8'6"	50"	Big truck		21'		50"	Small truck
Metal Delivery Trucks																																									
	Length	Width	Deck Height																																						
ASA Alloys	32'	8'4"	50"																																						
Dave Copp Steel	24'	8'7"	48"	Freightliner																																					
	24'	8'4"	51"	International																																					
	24'	8'5"	32"	9000 lbs trailer pulled by 3/4 ton truck																																					
Atlas Welding	37'	8'6"	50"	Big truck																																					
	21'		50"	Small truck																																					

**Room Data Sheet  
Preliminary Programming**

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-4.1	Prep. Bay	<ul style="list-style-type: none"> <li>1 stall for 1828mm (60') long bus</li> <li>3 stalls for 1292mm (40') long bus long</li> </ul>	(1200 x 3) + 1600 = 5,200 SF/ 483M <sup>2</sup>		<ul style="list-style-type: none"> <li>Off main drive aisle</li> <li>Paint Bay</li> </ul>
<b>Activity Description</b>		<b>Acoustic Treatment</b>		<b>Occupancy / Loading Standards</b>	
<ul style="list-style-type: none"> <li>Sanding</li> <li>Putty</li> <li>Fibreglass repair</li> <li>Touch-ups</li> </ul>		N/A (self contained units)  <b>Sound Iso.</b> _____ <b>DBA</b> _____ <b>Sound Ins.</b> _____ <b>Rev. Time</b> _____		<ul style="list-style-type: none"> <li>2 persons typical</li> </ul>	
<b>Access</b>		<b>Security</b>		<b>Flexibility</b>	
<ul style="list-style-type: none"> <li>Man door each side</li> </ul>				<ul style="list-style-type: none"> <li>Single purpose</li> </ul>	
<b>Structure</b>		<b>Environment</b>		<b>Equipment</b>	
<p><b>Height</b> 5791mm minimum clear (to accommodate lifted bus for undercoating work)</p> <p><b>Clear Span</b> <u>yes</u></p> <p><b>Floor Loading</b> _____ psf _____</p> <p><b>Spec. Req:</b></p> <ul style="list-style-type: none"> <li>Refer to E23.8 Structural Specifications on requirements for fall arrest system design.</li> <li>Refer to E23.14 and E23.15.17 Structural Specifications for floor loading.</li> <li>Refer to E23.15.7 and Equipment list Appendix L; Structural, Mechanical and Electrical requirements for all items to be supported by structure.</li> </ul>		<p><b>Temp.</b> <u>80F</u> <b>View Out Ext.</b> _____</p> <p><b>Humidity</b> <u>60%</u> <b>View Out Int.</b> _____</p> <p><b>View In</b> _____</p> <p><b>Spec. Req:</b></p> <ul style="list-style-type: none"> <li>Winter conditions permitted to be 68F</li> <li>Humidity control not required</li> </ul>		<ul style="list-style-type: none"> <li>Pre-manufactured prep. booths NEQ-05</li> <li>Central Vacuum system. Refer to E24.5.11</li> <li>Particulate extraction NEQ-09</li> </ul>	
<b>Electrical Services</b>		<b>Illumination</b>		<b>Room Finishes</b>	
<p><b>Power</b> _____ <b>TV</b> _____</p> <p><b>Comp</b> _____ <b>AV</b> _____</p> <p><b>Tel</b> _____ <b>PA</b> _____</p> <p><b>CCTV</b> _____ <b>Wireless</b> _____</p> <p><b>Other:</b></p> <ul style="list-style-type: none"> <li>Refer to Appendix L for specific electrical requirements to equipment.</li> <li>Provide 120V 15A convenience receptacles. Minimum 2 circuits per space. Maximum six duplex outlets per circuit. Outlets shall be located every 3m along the perimeter walls within the space.</li> <li>Hoist to be provided with 208V</li> </ul>		<p><b>Ft. Candles</b> _____ <b>Daylight</b> _____</p> <p><b>Fluor.</b> _____ <b>Quartz</b> _____</p> <p><b>LED:</b> <u>X</u></p> <p><b>Incand.</b> _____ <b>Special</b> _____</p> <p><b>Other:</b></p> <ul style="list-style-type: none"> <li>Lighting for mechanical service areas serving equipment.</li> </ul>		<p><b>Floor:</b></p> <ul style="list-style-type: none"> <li>Recessed concrete in polished, no slab. To accommodate pre-fab unit</li> </ul> <p><b>Walls:</b></p> <ul style="list-style-type: none"> <li>N/A</li> </ul> <p><b>Ceiling:</b></p> <ul style="list-style-type: none"> <li>Exposed structure painted - above</li> </ul>	



Appendix H R3  
860198-0117(8.0)

<p>3ph outlet for portable dust extractor/vacuum</p>		
<p><b>Mechanical Services</b></p> <p>Hot W. ____ Cold W. ____          Drain _____          Exhaust _____          Air _____          Climate Controlled? __ Yes _____          Other:</p> <ul style="list-style-type: none"> <li>• Refer to Appendix L for specific mechanical requirements to equipment.</li> </ul>	<p><b>Comments</b></p> <ul style="list-style-type: none"> <li>• All roof structure at bus bays shall be designed to accommodate the loads required for a future addition of a fall arrest system similar to those required in specific bus bays under this RFP. Proponents structural drawings shall locate and identify the allowable loads for each proposed future fall arrest system.</li> <li>• Clear volume and entry point with sufficient maintenance access free of all structure, vertical and horizontal ducts or conduits, lights, etc.</li> <li>• 30' buses will be serviced at any 40' bus bay location</li> </ul>	

**Room Data Sheet  
Preliminary Programming**

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-4.2	Paint Bay	<ul style="list-style-type: none"> <li>1 stall for 18288mm (60') long bus</li> <li>3 stalls for 1292mm (40') long bus long</li> </ul>	(1223 x 3) + 1600 = 5,200 SF / 483M <sup>2</sup>	4	<ul style="list-style-type: none"> <li>Prep. Bay</li> <li>Exterior</li> </ul>
<b>Activity Description</b>		<b>Acoustic Treatment</b>		<b>Occupancy / Loading Standards</b>	
<ul style="list-style-type: none"> <li>Spray paint application to buses</li> <li>Minor masking / taping</li> <li>All exterior personnel exits and overhead exits require a reinforced concrete pad which should be tied structurally to the building foundation wall.</li> </ul>		N/A (self contained units)  <b>Sound Iso.</b> _____ <b>DBA</b> _____  <b>Sound Ins.</b> _____ <b>Rev. Time</b> _____		<ul style="list-style-type: none"> <li>2 persons typical at one time</li> </ul>	
<b>Access</b>		<b>Security</b>		<b>Flexibility</b>	
<ul style="list-style-type: none"> <li>Main-entry + exit doors each side</li> <li>Interlocked doors for curing and spraying</li> <li>Overhead door height minimum 3658mm (12'-0")</li> <li>Buses both 12192mm &amp; 18288mm (40' &amp; 60') long to be able to pull through – no backing up.</li> </ul>		<ul style="list-style-type: none"> <li>All booths to be controlled and interlocked during curing and paint cycle</li> </ul>		<ul style="list-style-type: none"> <li>Ability to close off a portion of the 60' bus booth to paint auto parts while the other section can paint/cure 40' bus. See E24.5.5</li> </ul>	
<b>Structure</b>		<b>Environment</b>		<b>Equipment</b>	
<b>Height</b> 5791mm minimum clear (to accommodate paint booth structure) <b>Clear Span</b> <u>yes</u> <b>Floor Loading</b> _____ psf _____ <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>Refer to E23.8 Structural Specifications on requirements for fall arrest system design.</li> <li>Refer to E23.7.1 and E23.15.17 Structural Specifications for Wall Impact Resistance</li> <li>Refer to E23.14 and E23.15.17 Structural Specifications for floor loading.</li> <li>Refer to E23.15.7 and Equipment list Appendix L; Structural, Mechanical and Electrical requirements for all items to be supported by structure.</li> </ul>		<b>Temp.</b> <u>80F</u> <b>View Out Ext.</b> _____ <b>Humidity</b> <u>60%</u> <b>View Out Int.</b> _____ <b>View In</b> _____ <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>Winter conditions permitted to be 68F</li> <li>Humidity control not required</li> </ul>		<ul style="list-style-type: none"> <li>Pre-manufactured paint booths NEQ-04</li> </ul>	
<b>Electrical Services</b>		<b>Illumination</b>		<b>Room Finishes</b>	
<b>Power</b> _____ <b>TV</b> _____ <b>Comp</b> _____ <b>AV</b> _____ <b>Tel</b> _____ <b>PA</b> _____ <b>CCTV</b> _____ <b>Wireless</b> _____		<b>Ft. Candles</b> _____ <b>Daylight</b> _____ <b>Fluor.</b> _____ <b>Quartz</b> _____ <b>LED</b> <u>X</u> <b>Incand.</b> _____ <b>Special</b> _____ <b>Other:</b> _____		<b>Floor:</b> <ul style="list-style-type: none"> <li>Prepared and finished in accordance with manufacturer's</li> </ul>	

Appendix H R3  
860198-0117(8.0)

<p><b>Other:</b></p> <ul style="list-style-type: none"> <li>Refer to Appendix L for specific electrical requirements to equipment.</li> </ul>	<ul style="list-style-type: none"> <li>Lighting for mechanical service areas serving equipment.</li> </ul>	<p>requirements.</p> <p><b>Walls:</b></p> <ul style="list-style-type: none"> <li>As per manufacturer's standard finishes.</li> </ul> <p><b>Ceiling:</b></p> <ul style="list-style-type: none"> <li>As per manufacturer's standard finishes.</li> </ul>
<p><b>Mechanical Services</b></p> <p>Hot W. ____ Cold W. ____          Drain _____          Exhaust _____          Air _____          Climate Controlled? ____Yes____  <b>Other:</b></p> <ul style="list-style-type: none"> <li>Refer to Appendix L for specific mechanical requirements to equipment.</li> </ul>	<p><b>Comments</b></p> <ul style="list-style-type: none"> <li>If a paint booth is deleted from the project, the pit must still be provided for a future paint booth. The pit should be designed as per the pits for other paint booths that will be installed per E24.5.4 (e) (iii). Pit covers are required, and should be designed for the heaviest wheel load that enters the garage.</li> <li>Interior paint booth height 5486mm (18')</li> <li>30' buses will be serviced at any 40' bus bay location</li> </ul>	

**Room Data Sheet  
Preliminary Programming**

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-4.3	Paint Mix	2	2 x 150 = 300 SF / 28M <sup>2</sup>		<ul style="list-style-type: none"> <li>Paint Bay</li> <li>Prep. Bay</li> </ul>
<b>Activity Description</b>		<b>Acoustic Treatment</b>		<b>Occupancy / Loading Standards</b>	
<ul style="list-style-type: none"> <li>Area to store and mix paint before applying to bus.</li> </ul>		<b>Sound Iso.</b> _____ <b>DBA</b> _____ <b>Sound Ins.</b> _____ <b>Rev. Time</b> _____		<ul style="list-style-type: none"> <li>Transit to confirm</li> </ul>	
<b>Access</b>		<b>Security</b>		<b>Flexibility</b>	
		<ul style="list-style-type: none"> <li>Transit to confirm</li> </ul>		<ul style="list-style-type: none"> <li>Single purpose</li> </ul>	
<b>Structure</b>		<b>Environment</b>		<b>Equipment</b>	
<b>Height</b> Per code / manufacturer _____ <b>Clear Span</b> _____ <b>Floor Loading</b> _____ psf _____ <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>Refer to and E23.8 Structural Specifications on requirements for fall arrest system design.</li> <li>Refer to E23.7.1 Structural Specifications for Wall Impact Resistance</li> <li>Refer to E23.14 and E23.15.17 Strucural Specifications for floor loading.</li> <li>Refer to E23.15.7 and Equipment list Appendix L; Structural, Mechanical and Electrical requirements for all items to be supported by structure.</li> </ul>		<b>Temp.</b> _____ <b>View Out Ext.</b> _____ <b>Humidity</b> _____ <b>View Out Int.</b> _____ <b>View In</b> _____ <b>Spec. Req:</b>		<ul style="list-style-type: none"> <li>Pre-manufactured paint mix room NEQ-06</li> </ul>	
<b>Electrical Services</b>		<b>Illumination</b>		<b>Room Finishes</b>	
<b>Power</b> _____ <b>TV</b> _____ <b>Comp</b> _____ <b>AV</b> _____ <b>Tel</b> _____ <b>PA</b> _____ <b>CCTV</b> _____ <b>Wireless</b> _____ <b>Other:</b> <ul style="list-style-type: none"> <li>Refer to Appendix L for specific electrical requirements to equipment.</li> </ul>		<b>Ft. Candles</b> _____ <b>Daylight</b> <u> X </u> <b>Fluor.</b> _____ <b>Quartz</b> _____ <b>LED:</b> <u> X </u> <b>Incand.</b> _____ <b>Special</b> _____ <b>Other:</b> <ul style="list-style-type: none"> <li>Lighting for mechanical service areas serving equipment.</li> </ul>		<b>Floor:</b> <ul style="list-style-type: none"> <li>Polished concrete</li> </ul> <b>Walls:</b> <ul style="list-style-type: none"> <li>As per manufacturer's standard finishes.</li> </ul> <b>Ceiling:</b> <ul style="list-style-type: none"> <li>As per manufacturer's standard finishes.</li> </ul>	

Appendix H R3  
860198-0117(8.0)

Mechanical Services	Comments
<p>Hot W. ____ Cold W. ____ Drain _____ Exhaust _____ Air _____ Climate Controlled? _____ Other:</p> <ul style="list-style-type: none"><li>• Refer to Appendix L for specific mechanical requirements to equipment.</li></ul>	<ul style="list-style-type: none"><li>- Height of paint mix booths to be as per manufacturer.</li></ul>

**Room Data Sheet  
Preliminary Programming**

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-5.1	Fluid Room	1	1120 SF / 104M <sup>2</sup>	1	<ul style="list-style-type: none"> <li>• Typical Service Bay</li> <li>• Exterior</li> <li>• UTR</li> </ul>
<b>Activity Description</b>		<b>Acoustic Treatment</b>		<b>Occupancy / Loading Standards</b>	
<ul style="list-style-type: none"> <li>• Holding area for fluids for bus maintenance</li> </ul>		<b>Sound Iso.</b> _____ <b>DBA</b> _____ <b>Sound Ins.</b> _____ <b>Rev. Time</b> _____		N/A	
<b>Access</b>		<b>Security</b>		<b>Flexibility</b>	
<ul style="list-style-type: none"> <li>• Locked double doors (or overhead door) at exterior to allow for delivery.</li> <li>• Width and height enough for forklift</li> <li>• Exterior single exit door.</li> <li>• All exterior personnel exits and overhead exits require a reinforced concrete pad which should be tied structurally to the building foundation wall.</li> </ul>		<ul style="list-style-type: none"> <li>• Locked Room</li> </ul>		<ul style="list-style-type: none"> <li>• Single purpose</li> </ul>	
<b>Structure</b>		<b>Environment</b>		<b>Equipment</b>	
<b>Height</b> _____ <b>Clear Span</b> _____ <b>Floor Loading</b> _____ <b>psf</b> _____ <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>• Floor load to accommodate tank weights and forklift.</li> <li>• Refer to E23.14 Structural Specifications for floor loading.</li> <li>• Refer to Equipment list Appendix L; Structural, Mechanical and Electrical requirements for all items to be supported by structure.</li> </ul>		<b>Temp.</b> <u>80F</u> <b>View Out Ext.</b> _____ <b>Humidity</b> <u>60%</u> <b>View Out Int.</b> _____ <b>View In</b> _____ <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>• Winter conditions permitted to be 68F</li> <li>• Humidity control not required</li> </ul>		<ul style="list-style-type: none"> <li>• Double wall 5,000L capacity vertical tanks with forklift pockets               <ul style="list-style-type: none"> <li>• Transmission fluid</li> <li>• Antifreeze</li> <li>• Oil</li> </ul> </li> <li>• Grease barrels</li> <li>• Distribution equipment including pumps, pipes, etc.</li> <li>• Forklift</li> </ul>	
<b>Electrical Services</b>		<b>Illumination</b>		<b>Room Finishes</b>	
<b>Power</b> _____ <b>TV</b> _____ <b>Comp</b> _____ <b>AV</b> _____ <b>Tel</b> _____ <b>PA</b> _____ <b>CCTV</b> _____ <b>Wireless</b> _____ <b>Other:</b> <ul style="list-style-type: none"> <li>• Provide 120V 15A convenience receptacles. Minimum 2 circuits per space. Maximum six duplex outlets per circuit. Outlets shall be located every 3m along the perimeter walls within the space.</li> </ul>		<b>Ft. Candles</b> _____ <b>Daylight</b> _____ <b>Floor.</b> _____ <b>Quartz</b> _____ <b>LED</b> <u>X</u> _____ <b>Incand.</b> _____ <b>Special</b> _____ <b>Other:</b> <ul style="list-style-type: none"> <li>• Explosion proof lighting</li> </ul>		<b>Floor:</b> <ul style="list-style-type: none"> <li>• Polished concrete</li> </ul> <b>Walls:</b> <ul style="list-style-type: none"> <li>• CMU – 2 hour rated to 3660 (12' – 0") AFF.</li> <li>• Gypsum wallboard c/w ULC rating of 2hrs above.</li> </ul> <b>Ceiling:</b> <ul style="list-style-type: none"> <li>• Exposed structure – painted or Gypsum wallboard c/w ULS rating of 2hrs at appropriate height once tanks are established.</li> </ul>	

Appendix H R3  
860198-0117(8.0)

Mechanical Services	Comments
Hot W. ____ Cold W. ____ Drain _____ Exhaust _____ Air _____ Climate Controlled? __ Yes _____ Other:	<ul style="list-style-type: none"><li data-bbox="558 289 1266 340">• Design to explosion-proof construction standards as per current codes required to suit contents of room – see MSDS Appendix G</li></ul>

**Room Data Sheet  
Preliminary Programming**

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-6.1	<b>UTR &amp; Washrooms</b>	<ul style="list-style-type: none"> <li>1 – UTR</li> <li>1 – Male</li> <li>1 – Female c/w lockers and showers</li> </ul>	<ul style="list-style-type: none"> <li>As per Code</li> </ul>		<ul style="list-style-type: none"> <li>All washrooms located together</li> <li>UTR must be within 45M of new washrooms</li> </ul>
<b>Activity Description</b>		<b>Acoustic Treatment</b>		<b>Occupancy / Loading Standards</b>	
<ul style="list-style-type: none"> <li>Personal hygiene and toileting.</li> </ul>		<b>Sound Iso. _____ DBA _____</b> <b>Sound Ins. <u>X</u> Rev. Time _____</b>		<ul style="list-style-type: none"> <li>As per code</li> </ul>	
<b>Access</b>		<b>Security</b>		<b>Flexibility</b>	
<ul style="list-style-type: none"> <li>Off of shop floors</li> <li>Centrally located in expansion</li> </ul>				<ul style="list-style-type: none"> <li>Single use room.</li> </ul>	
<b>Structure</b>		<b>Environment</b>		<b>Equipment</b>	
<b>Height _____</b> <b>Clear Span _____</b> <b>Floor Loading _____ psf _____</b> <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>Refer to E23.14 Strucural Specifications for floor loading.</li> <li>Refer to E23.15.7 and Equipment list Appendix L; Structural, Mechanical and Electrical requirements for all items to be supported by structure.</li> </ul>		<b>Temp. <u>80F</u> View Out Ext. _____</b> <b>Humidity _____ View Out Int. _____</b> <b>View In _____</b> <b>Spec. Req:</b> <ul style="list-style-type: none"> <li>Winter conditions permitted to be 74F</li> <li>Humidity control not required</li> </ul>		<ul style="list-style-type: none"> <li>Toilets and vanities complete with grab bars and toilet accessories</li> <li>Floor Drains</li> <li>2 female showers c/w grab bars, shower curtains, clips and soap holders, 16 single tier metal locker. 305x457x1829mm, 2 benches</li> </ul>	
<b>Electrical Services</b>		<b>Illumination</b>		<b>Room Finishes</b>	
<b>Power _____ TV _____</b> <b>Comp _____ AV _____</b> <b>Tel _____ PA _____</b> <b>CCTV _____ Wireless _____</b> <b>Other:</b>		<b>Ft. Candles _____ Daylight _____</b> <b>Fluor. _____ Quartz _____ LED: <u>X</u></b> <b>Incand. _____ Special _____</b> <b>Other:</b>		<b>Floor</b> <ul style="list-style-type: none"> <li>Sheet vinyl safety floor for slip resistant covered base.</li> </ul> <b>Walls:</b> <ul style="list-style-type: none"> <li>CMU to 2438mm (8' – 0") AFF and mildew resistant gypsum wallboard above to underside of structure. Painted with Epoxy Paint.</li> </ul> <b>Ceiling:</b> <ul style="list-style-type: none"> <li>ACT</li> </ul>	



Appendix H R3  
860198-0117(8.0)

Mechanical Services	Comments
<p>Hot W. <input type="checkbox"/> Y <input type="checkbox"/> Cold W. <input type="checkbox"/> Y <input type="checkbox"/></p> <p>Drain <input type="checkbox"/> Y <input type="checkbox"/></p> <p>Exhaust <input type="checkbox"/> Y <input type="checkbox"/></p> <p>Air _____</p> <p>Climate Controlled? <input type="checkbox"/> Yes <input type="checkbox"/></p> <p>Other:</p> <ul style="list-style-type: none"><li>• Heating only</li><li>• 2 female showers</li></ul>	<ul style="list-style-type: none"><li>• One washroom for each gender as well as a UTR.</li><li>• Design to conform to CWADS requirements.</li><li>• Female washroom to have 2 showers, 16 full height lockers, and 2 benches.</li></ul>

**Room Data Sheet  
Preliminary Programming**

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac to
A1-7.1	Offices	6	10' - 6" x 10' - 6" each Included in Weld Shop area	Minimum 6	Shops
<b>Activity Description</b> • Supervisors offices		<b>Acoustic Treatment</b> Sound Iso. ____ DBA ____ Sound Ins. <input checked="" type="checkbox"/> Rev. Time _____		<b>Occupancy / Loading Standards</b> • 1 occupant/workstation per office	
<b>Access</b> • From shop floors • All exterior personnel exits and overhead exits require a reinforced concrete pad which should be tied structurally to the building foundation wall.		<b>Security</b> • Lockable door		<b>Flexibility</b> • Single use room.	
<b>Structure</b> Height _____ Clear Span _____ Floor Loading _____ psf _____ Spec. Req:		<b>Environment</b> Temp. <u>80</u> F View Out Ext. ____ Humidity ____ View Out Int. ____ View In ____ Spec. Req: • Winter conditions permitted to be 74F • Humidity control not required		<b>Equipment</b> • Computers • Telephones • Printers • Chairs/Desks Furniture	
<b>Electrical Services</b> Power <input checked="" type="checkbox"/> TV ____ Comp <input checked="" type="checkbox"/> AV ____ Tel <input checked="" type="checkbox"/> PA ____ CCTV ____ Wireless <input checked="" type="checkbox"/> Other: • Provide 120V 15A convenience receptacles. Minimum 2 circuits per space. Maximum six duplex outlets per circuit. Outlets shall be located every 3m along the perimeter walls within the space.		<b>Illumination</b> Ft. Candles ____ Daylight ____ Fluor. ____ Quartz ____ LED: <input checked="" type="checkbox"/> Incand. ____ Special ____ Other:		<b>Room Finishes</b> <b>Floor:</b> • Sheet vinyl safety floor for slip resistant covered base. <b>Walls:</b> • CMU to 1200mm (4' - 0") AFF and GWB above to underside of ceiling. Painted with Epoxy Paint. <b>Ceiling:</b> • ACT	
<b>Mechanical Services</b> Hot W. ____ Cold W. ____ Drain _____ Exhaust _____ Air _____ Climate Controlled? _____ Other:		<b>Comments</b> • Offices to have glazing as appropriate for sight lines to the shop.			

**Room Data Sheet  
Preliminary Programming**

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-6.3	<b>Mechanical and Electrical Room(s)</b>	As Required	To suit Mechanical and Electrical design	As Required	
<b>Activity Description</b> <ul style="list-style-type: none"> <li>Mechanical and electrical service spaces</li> </ul>		<b>Acoustic Treatment</b> Sound Iso. ____ DBA ____ Sound Ins. <u>X</u> Rev. Time ____		<b>Occupancy / Loading Standards</b> <ul style="list-style-type: none"> <li>Staff as required for regular maintenance activities</li> </ul>	
<b>Access</b> <ul style="list-style-type: none"> <li>To suit requirements</li> <li>All exterior personnel exits and overhead exits require a reinforced concrete pad which should be tied structurally to the building foundation wall.</li> </ul>		<b>Security</b> <ul style="list-style-type: none"> <li>Lockable door</li> </ul>		<b>Flexibility</b> <ul style="list-style-type: none"> <li>Single use room.</li> </ul>	
<b>Structure</b> Height _____ Clear Span _____ Floor Loading _____ psf _____ Spec. Req: <ul style="list-style-type: none"> <li>Refer to E23.14 Structural Specifications for floor loading.</li> <li>Refer to E23.15.7 and Equipment list Appendix L; Structural, Mechanical and Electrical requirements for all items to be supported by structure.</li> </ul>		<b>Environment</b> Temp. <u>80F</u> View Out Ext. ____ Humidity <u>60%</u> View Out Int. ____ View In ____ Spec. Req: <ul style="list-style-type: none"> <li>Winter conditions permitted to be 68F</li> <li>Humidity control not required</li> </ul>		<b>Equipment</b> <ul style="list-style-type: none"> <li>Mechanical and electrical equipment as required for the design.</li> </ul>	
<b>Electrical Services</b> Power <u>X</u> TV ____ Comp <u>X</u> AV ____ Tel <u>X</u> PA ____ CCTV ____ Wireless <u>X</u> Other:		<b>Illumination</b> Ft. Candles ____ Daylight ____ Fluor. ____ Quartz ____ LED: <u>X</u> Incand. ____ Special ____ Other:		<b>Room Finishes</b> <b>Floor:</b> <ul style="list-style-type: none"> <li>Polished concrete at grade. Epoxy if a penthouse condition.</li> </ul> <b>Walls:</b> <ul style="list-style-type: none"> <li>CMU to 2438mm (8' - 0") AFF and mildew resistant gypsum wallboard above to underside of structure. Painted with Epoxy Paint. Fire rating to suit as per MNBC.</li> </ul> <b>Ceiling:</b> <ul style="list-style-type: none"> <li>Open to structure above</li> </ul>	
<b>Mechanical Services</b> Hot W. ____ Cold W. ____ Drain _____ Exhaust _____ Air _____ Climate Controlled? ____ Yes ____ Other:		<b>Comments</b>			