Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-1.1	Typical Service Bay	<ul> <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><li>Off main drive aisle</li><li>Exterior</li></ul>
Activity Desc	ription	Acoustic Treatment	1	Occupancy /	Loading Standards
repair	intenance and general	Sound Ins Rev. Time		2 persons / bay	
Access		Security		Flexibility	
<ul> <li>bays (ext</li> <li>Interior d</li> <li>12192mm</li> <li>All exterioverhead</li> <li>reinforced</li> <li>should be</li> </ul>	bugh for 18288mm (60') erior overhead door) Irive in access only for n (40') bays for personnel exits and exits require a d concrete pad which e tied structurally to the oundation wall.	Building Perimeter		Single us	e space
Structure		Environment		Equipment	
garage) Clear Span Floor Loading Spec. Req: • Refer Specifica for fall an • Refer to Specifica Resistam • Refer to Strucural loading. • Refer Equipme Structura Electrical items t structure • Overhead welding systems	to E23.8 Structural titions on requirements rest system design. to E23.7.1 Structural titions for Wall Impact ce E23.14 and E23.15.17 Specifications for floor to E23.15.7 and nt list Appendix L; I, Mechanical and requirements for all o be supported by d curtain system for and pressure washing to be hung from roof	Humidity _60% View O View In Spec. Req: • Winter conditions per 68F • Humidity control not re	b80F View Out Ext idity _60% View Out Int In . Req: Winter conditions permitted to be		oists NEQ-01 (1-60' bay e water resistant for bus el fluid dispensing system st protection to be a sper Structural tions. Locations to be ed in design phase with extraction system nt toches at each bay te extraction NEQ-09 pressure washing system y NEQ-11 d curtain system for tent, suitable for pressure system.
Electrical Ser	vices	Illumination		Room Finish	es
Tel PA CCTV W Other: • 1 quad r	1 quad receptacle at every bay • Refer to E23.7.1 com		Fluor.         Quartz            LED_X         Incand.		, sealed concrete E23.7.1 complete with 200 J to underside of structure

between every two bays)	face of concrete.
Overhead 120V/30A/1Ph/60Hz drop c/w twist-lock 30A	Ceiling:
receptacle for portable exhaust unit NEQ-09. (1 drop shared per	Exposed Structure - painted
<ul><li>every two adjacent bays).</li><li>Refer to Appendix L for specific</li></ul>	
electrical requirements to	
equipment.	
• All duplex receptacles in the	
garage and shops area to be 120V 20A circuits.	
<ul> <li>Power for pressure washing</li> </ul>	
system NEQ-11	
Mechanical Services	Comments
<ul> <li>Hot WCold W</li> <li>Drainperimeter trench drains four (4) for pressure washing system</li> <li>Exhaust</li> <li>AirClimate Controlled?Yes</li> <li>Climate Controlled?Yes</li> <li>Other:</li> <li>Exhaust for bus fumes</li> <li>Compressed air <ul> <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>	<ul> <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>

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-1.2	Refurbishing Service Bay	<ul> <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>		Off main drive aisle
Activity Descr	iption	Acoustic Treatme	ent	Occupancy	/ Loading Standards
including: grinding, p	refurbishing of buses torching, welding, banel removal, ht removal.	Sound Iso Sound Ins	_ DBA _ Rev. Time	2 – 4 persons	S
Access		Security		Flexibility	
<ul> <li>drive aisle</li> <li>All exterior</li> <li>overhead</li> <li>reinforced</li> <li>should be</li> </ul>	or personnel exits and	Building Perin	meter	Single use space	
Structure		Environment		Equipment	
<ul> <li>garage)</li> <li>Clear Span</li> <li>Floor Loading</li> <li>Spec. Req:</li> <li>Refer to Specificat for fall arr</li> <li>Refer to Specificat Resistand</li> <li>Refer to Strucural loading.</li> <li>Refer to Strucural items to structure.</li> <li>Refer to Electrical items to structure.</li> <li>Refer to Electrical items to structure.</li> </ul>	b psf to E23.8 Structural tions on requirements rest system design. b E23.7.1 Structural tions for Wall Impact ce E23.14 and E23.15.17 Specifications for floor to Equipment lists L; Mechanical and requirements for all b be supported by E23.15.7. Exhaust n system equipment to rted by roof structure. Equipment list Appendix tural, Mechanical and requirements for all b be supported by	Humidity _60% View In Spec. Req: • Winter condi 68F • Humidity con	View Out Ext View Out Int tions permitted to be trol not required	<ul> <li>Ho sys</li> <li>Fa de: spi de' wit</li> <li>Ov coi we</li> <li>Ce to</li> <li>Pa</li> </ul>	floor hoists NEQ-01 se reel fluid dispensing stem NEQ-02 II arrest protection to be signed as per Structural ecifications. Locations to be termined in design phase h Transit. erhead curtain system for ntainment, suitable for Iding. ntral Vacuum system. Refer E24.5.11 rticulate extraction NEQ-09
Electrical Serv	vices	Illumination		Room Finis	nes
Power T\ Comp A\ Tel PA _	/	Ft. Candles Fluor LED: <u>X</u>	Quartz	Floor: • Polishee	d, sealed concrete

CCTV Wireless	Incand Special	
Other:	Other:	Walls:
<ul> <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>		<ul> <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> <li>Ceiling:</li> <li>Exposed Structure - painted</li> </ul>
Mechanical Services         Hot WY_ Cold WY         Drain	<ul> <li>designed to accommodate the loa arrest system similar to those required Proponents structural drawings shift for each proposed future fall arrest</li> <li>Any compressed air high pressure equivalent.</li> </ul>	loop to be by Trans Air, or approved ufficient maintenance access free of all cts or conduits, lights, etc.

Space Ref	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
́ No. А1-1.3	Body Repair Bay	<ul> <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> <li>Off main drive aisle</li> <li>Exterior</li> </ul>
Activity Desc	ription	Acoustic Treatme	ent	Occupancy /	Loading Standards
	repair and maintenance glass replacement, body	Sound Iso Sound Ins	_ DBA _ Rev. Time	2 person	s / bay
Access		Security		Flexibility	
<ul> <li>bays (ext</li> <li>Interior c drive aisi</li> <li>All exterior</li> <li>overheac reinforce should b</li> </ul>	ior personnel exits and	Building Perin	meter	Single use space	
Structure		Environment		Equipment	
garage) Clear Span Floor Loading Spec. Req: • Refer Specifica for fall ar • Refer to Strucura loading. • Refer to L; Struc Electrica items t structure	g psf to E23.8 Structural ations on requirements rest system design. E23.14 and E23.15.17 I Specifications for floor Equipment list Appendix ctural, Mechanical and I requirements for all to be supported by	Humidity _60% View In Spec. Req: • Winter condi 68F • Humidity con	<b>Tiew Out Ext.</b> View Out Int tions permitted to be trol not required	<ul> <li>Particula</li> <li>Hose ree NEQ-02</li> <li>Fall arres designed specifica determin Transit.</li> </ul>	oists NEQ-01 te extraction NEQ-09 el fluid dispensing system st protection to be d as per Structural tions. Locations to be ed in design phase with
Electrical Ser	vices	Illumination		Room Finishe	es
<ul> <li>Other:</li> <li>1 quad a (separate)</li> <li>Welding between</li> </ul>	V /ireless e cicruits) plug (1 station shared every two bays) at wall Appendix L for specific	Ft. Candles Fluor LED_X Incand Sp Other:	Quartz	Walls: • Refer to mm CML	, sealed concrete E23.7.1 complete with 200 J to underside of structure d. Block to be flush with oncrete.

<ul> <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>	Exposed Structure - painted
Mechanical Services         Hot W Cold W         Drain         Exhaust         Air         Climate Controlled?Yes         Other:         • Exhaust for bus fumes         • Overhead breathing air station at 5 locations TBC by City         • Compressed air         • Overhead - 2 x 3/8" dia. (1 @ 130psi, 1 @ 120 psi)         • Wall – 1 x 1" dia. lines @ 130 psi         • Refer to Appendix L for specific mechanical requirements to equipment.	<ul> <li>Comments</li> <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>

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> <li>Typical Service Bay</li> <li>Refurbishing Service Bay</li> <li>Body Repair Bay</li> <li>Exterior</li> </ul>
Activity Desc	ription	Acoustic Treatm	ent	Occupancy /	Loading Standards
	ffic aisle for movement out of garage addition	Sound Iso DBA		2 person	s / bay
Access		Sound Ins Security	_ Rev. Time	Flexibility	
<ul> <li>Access</li> <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>				Single use space	
Structure		Environment		Equipment	
Height <u>5791 m</u> garage) Clear Span Floor Loading Spec. Req: • Refer Specifica for fall an • Refer to Strucural loading. • Refer to L; Struc Electrical	<ul> <li>Height <u>5791 mm clear (match existing garage)</u></li> <li>Clear Span ves Floor Loading psf psf Spec. Req:</li> <li>Refer to E23.8 Structural Specifications on requirements for fall arrest system design.</li> <li>Refer to E23.14 and E23.15.17 Strucural Specifications for floor loading.</li> <li>Refer to Equipment list Appendix L; Structural, Mechanical and Electrical requirements for all items to be supported by</li> </ul>		View Out Ext _ View Out Int itions permitted to be ntrol not required	Oil interc	ceptors
Electrical Ser	vices	Illumination		Room Finish	es
Power T Comp A Tel PA CCTV W Other:	V	Ft. Candles           Fluor           LED_X           Incand           St           Other:	Quartz	Walls: • Refer to mm CMI	E23.7.1 complete with 200 U to underside of structure d. Block to be flush with oncrete.
Mechanical S Hot W C Drain Exhaust Air Climate Contr	Cold W	Exposed Structure – painted Comments Traffic intended to be one way New south overhead doors should be as per E21.15 Existing west overhead door to remain			

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-2.1	Weld Shop	1	12,350sf/1147m <sup>2</sup> *entire shops area		Body Shop
<ul> <li>Hoist reparation</li> <li>All exterision overhead reinforced should be building for should be building for structure</li> <li>Height <u>5791mm</u> Clear Span</li> <li>Floor Loading Spec. Req:</li> <li>Refer to a specificat</li> <li>Refer to a structural Electrical items to structure.</li> </ul>	ing iding utters G welders airs or personnel exits and exits require a d concrete pad which e tied structurally to the oundation wall. <u>m clear</u> <u>yes</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u> <u>psf</u>	Security  Building Peri  Environment Temp80F Humidity _60%_ View In Spec. Req: Winter conc 68F Humidity cor	_ DBA _ Rev. Time	<ul> <li>±18 pers</li> <li>2 superv</li> <li>1 estima</li> <li>3 uphols</li> <li>5 bodym</li> <li>2 sheet i</li> <li>5 welder</li> <li>*Note: this is</li> <li>Flexibility</li> <li>Multiple</li> <li>Curtains plasma of</li> <li>Equipment</li> <li>Anvil EC</li> <li>Delta Be</li> <li>ERMX H</li> <li>DC39 Be</li> <li>D654 15</li> <li>Dm-12 E</li> <li>Piranha</li> <li>Welding</li> <li>Power h</li> <li>Rod ove</li> <li>Welder's 30, EQ-3</li> <li>Plasma of</li> <li>Blacksm</li> <li>Welding</li> <li>Sheet m</li> <li>Metal stor</li> <li>Storage</li> <li>Tool cab</li> <li>Overhead (New, S)</li> <li>Manufac</li> <li>City duri</li> </ul>	risors tor terer en metal s for entire shops area functionality to break-up area around cutters 
Electrical Serv		Illumination	<b>_</b>	Room Finish	63
Power T Comp A Tel PA CCTV W Other:	/	Ft. Candles Daylight _X         Fluor Quartz LED: _X         Incand Special         Other:		<ul><li>Floor:</li><li>Polished</li><li>Walls:</li></ul>	l concrete
<ul> <li>electrical equipmen</li> <li>Provide 1 receptacle per space</li> </ul>		<ul> <li>CMU to underside of Ceiling:</li> <li>Exposed structure - p</li> </ul>			

be located every 3m along the perimeter walls within the space.		
Mechanical Services	Comments	
Hot W Cold W Drain Exhaust Air Climate Controlled?Yes Other:	<ul> <li>Crane permitted to be shared with Boo</li> <li>Refer to Body Shop equipment list. La</li> </ul>	dy Shop ayout may overlap into adjacent space.
Refer to Appendix L for specific mechanical requirements to equipment.		

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-2.2	Body Shop	1	*12,350 SF/1147M <sup>2</sup> *entire shops area		<ul><li>Body Repair Bay</li><li>Weld Shop</li></ul>
<ul> <li>Repair ho</li> <li>Access         <ul> <li>All exteris overhead reinforced should be building for</li> </ul> </li> <li>Structure         <ul> <li>Height <u>5791mil</u> Clear Span</li> <li>Floor Loadin</li> <li>Spec. Req:                 <ul> <li>Refer to I Structural loading.</li> <li>Refer to I Equipmer Structural Electrical</li> </ul> </li> </ul> </li> </ul>	ing ding utters G welders ists or personnel exits and exits require a d concrete pad which e tied structurally to the bundation wall. <u>m clear</u> <u>yes</u> <b>ng psf</b> E23.14 and E23.15.17 Specifications for floor E23.14 and E23.9 and it list Appendix L;	Humidity _60% View In Spec. Req: • Winter con be 68F	nent DBA Rev.	<ul> <li>±18 person</li> <li>2 supervis</li> <li>1 estimato</li> <li>3 upholste</li> <li>5 bodymen</li> <li>2 sheet me</li> <li>5 welders</li> <li>*Note: this is for</li> </ul> Flexibility <ul> <li>Multiple fu</li> <li>Curtains to plasma cu</li> </ul> Equipment <ul> <li>Hand HB04</li> <li>Belt g</li> <li>Rolle</li> <li>Powe</li> <li>Drill p</li> <li>Grind</li> <li>Spot</li> <li>Sand</li> <li>Work 21, E</li> <li>26, E</li> <li>Work</li> <li>21, E</li> <li>26, E</li> <li>Work</li> <li>Shee</li> <li>37</li> <li>Cupb</li> <li>39, E</li> <li>43</li> <li>Bolt</li> <li>EQ-4</li> <li>Over capa</li> <li>Cont</li> </ul>	ors r metan r the entire shops area nctionality b break-up area around tters l brake HB01, HB02, HB03, f prinder EQ-03 r EQ-04, EQ-05 er shear SHE02 bress EQ-06 lers EQ-07, EQ-08 welder EQ-10, blast cabinet SB01 bench EQ-19, EQ-20, EQ- EQ-22, EQ-23, EQ-20, EQ- EQ-22, EQ-23, EQ-20, EQ- EQ-22, EQ-23, EQ-20, EQ- EQ-24 bench with sheat SHE03 t metal racking EQ-36, EQ- bin storage and cabinets 8, EQ-49 head crane 5,000lb city (New, supplied by ractor, Manufacturer to be boved by City during design) cated hood for plasma
Electrical Serv	vices	Illumination		Partic     Room Finishes	culate extraction NEQ-09
Power T Comp A Tel PA CCTV Wi Other:	/	Ft. Candles Fluor LED:_X Incand S Other:		Floor: <ul> <li>Polished c</li> </ul> Walls:	oncrete

<ul> <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> <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> <li>Ceiling:</li> <li>Exposed structure - painted</li> </ul>
Mechanical Services         Hot W Cold W         Drain         Exhaust         Air         Climate Controlled?Yes         Other:         • Refer to Appendix L for specific mechanical requirements to equipment.	n Weld Shop t. Layout may overlap into adjacent space. h manufacturer prior to procurement of the

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-2.3	Upholstery Shop	1	*12,350 SF/1147M <sup>2</sup> *entire shops area	1	<ul><li>Weld Shop</li><li>Body Shop</li></ul>
Activity Desc	ription	Acoustic Treatme		Occupancy /	Loading Standards
<ul> <li>Bench work</li> <li>Sewing</li> <li>Seat repair</li> </ul>		Sound Iso DBA Sound Ins Rev. Time		<ul> <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>	
overhead reinforce should b			Security     Building Perimeter		or the entire shops area unctionality to break-up area around utters
Structure		Environment		Equipment	
<ul> <li>Spec. Req:</li> <li>Refer to Strucural loading.</li> <li>Refer to list Ap Mechanic requirem</li> </ul>	yespsf gpsf E23.14 and E23.15.17 Specifications for floor E23.15.7 and Equipment pendix L; Structural,	<ul> <li>Spec. Req:</li> <li>3.15.17</li> <li>Winter conditions permitted to be 68F</li> <li>Humidity control not required</li> <li>uipment uctural, lectrical</li> </ul>		<ul> <li>1 small bandsaw EQ-51</li> <li>1 pedestal grinder EQ-52</li> <li>Metal cutting</li> <li>Metal bending</li> </ul>	
Electrical Ser	vices	Illumination		Room Finishe	es
Other: • Refer to electrical equipme • Provide	V /ireless Appendix L for specific requirements to nt. 120V 15A convenience	Ft. Candles           Fluor           LED: _X           Incand           Other:	Quartz	mm CML	E23.7.1 complete with 200 J to underside of structure d. Block to be flush with
per spac outlets p be locat	les. Minimum 2 circuits ce. Maximum six duplex per circuit. Outlets shall ed every 3m along the r walls within the space.			Ceiling: • Exposed	structure - painted

Mechanical Services	Comments
Hot W Cold W         Drain         Exhaust         Air         Climate Controlled?Yes         Other:         • Separate ventilation from adjacent shop spaces.         • Refer to Appendix L for specific mechanical requirements to equipment.	<ul> <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>

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-3.1	Welding Stores	1	4,500 SF/418M <sup>2</sup>	1	<ul> <li>Weld Shop</li> <li>Exterior (Receiving)</li> <li>Existing Stores</li> </ul>
Activity Desc	ription	Acoustic Treatme	ent	Occupancy /	Loading Standards
Cutting s	ut desk/parts wicket	Sound Iso Sound Ins	_DBA _Rev. Time	• 1 or 2 per	rsons
Access		Security		Flexibility	
<ul> <li>height er through</li> <li>Receivin</li> <li>All exteriand over reinforce should be</li> </ul>	Dutch door. Width and hough for forklift to go g bay or personnel exits head exits require a d concrete pad which e tied structurally to ing foundation wall.	<ul> <li>Lockable inte</li> <li>Secure exter</li> </ul>	erior door ior overhead door	Single us	e.
Structure		Environment		Paint	
Specifica loading. • Refer Equipme Structura Electrica	<b>b</b> columns <b>g psf</b> <b>b</b> E23.14 Strucural attions for floor to E23.15.7 and int list Appendix L; al, Mechanical and I requirements for all b be supported by	Humidity60%_ View In Spec. Req: • Winter condit 68F	View Out Ext		
Electrical Ser	rvices	Illumination		Room Finishe	es la
Other: • Refer to specific requirem • Provide convenie Minimum Maximun per circu located	V /ireless o Appendix L for electrical ents to equipment. 120V 15A	Ft. Candles Fluor Quar LED: <u>X</u> Incand Sp Other:	tz	to unders be flush v Ceiling:	Dincrete E23.7.1 complete with 200mm CMU side of structure – painted. Block to vith face of concrete. structure - painted

Mechanical Services	Comments				
		Metal Delivery Trucks			
Hot W Cold W Drain		Length	Width	Deck Height	
Exhaust	ASA Alloys	32'	8'4"	50"	
Air Climate Controlled?	Dave Copp Steel	24'	8'7"	48"	Freightliner
Yes Other:		24'	8'4"	51"	International
ould.		24'	8'5"	32"	9000 lbs trailer pulled by ¾on truck
	Atlas Welding	37'	8'6"	50"	Big truck
		21'		50"	Small truck

Space Ref	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
At-4.1 At-4.1 Activity Descrip Sanding Putty Fibreglass r Touch-ups	Prep. Bay	<ul> <li>1 stall for 18288mm (60') long bus</li> <li>3 stalls for 1292mm (40') long bus long</li> <li>Acoustic Treatment N/A (self contained</li> <li>Sound Iso.</li> <li>Sound Ins.</li> </ul>	(1200 x 3) + 1600 = 5,200 SF/ 483M <sup>2</sup> ent d units) DBA		<ul> <li>Off main drive aisle</li> <li>Paint Bay</li> </ul>
Access <ul> <li>Man door e</li> </ul>	ach side	Security		Flexibility <ul> <li>Single put</li> </ul>	irpose
accommodate lif undercoating wo Clear Span ves Floor Loading Spec. Req: • Refer to E2 Specificatio for fall arres • Refer to E Strucural S loading. • Refer to E2 list Appen Mechanical	leight 5791mm minimum clear (to ccommodate lifted bus for ndercoating work) clear Span ves loor Loadingpsf pec. Req: Refer to E23.8 Structural Specifications on requirements for fall arrest system design. Refer to E23.14 and E23.15.17 Strucural Specifications for floor loading. Refer to E23.15.7 and Equipment list Appendix L; Structural, Mechanical and Electrical requirements for all items to be		Environment Temp80F View Out Ext Humidity60%_ View Out Int View In Spec. Req: • Winter conditions permitted to be 68F • Humidity control not required		ufactured prep. booths /acuum system. Refer to te extraction NEQ-09
Other: • Refer to Ap electrical equipment. • Provide 120 receptacles per space. outlets per of be located of perimeter w		Illumination Ft. Candles Fluor Quart LED: <u>X</u> Incand Sp Other: • Lighting for m areas serving	tz	slab. To a Walls: • N/A Ceiling:	es d concrete in polished, no accommodate pre-fab unit structure painted - above

3ph outlet for portable dust extractor/vacuum	
Mechanical Services	Comments
Hot W Cold W Drain Exhaust AirClimate Controlled?Yes Other: • Refer to Appendix L for specific mechanical requirements to equipment.	<ul> <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>

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-4.2	Paint Bay	<ul> <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><li>Prep. Bay</li><li>Exterior</li></ul>
Activity Des	scription	Acoustic Treatme	ent	Occupancy /	Loading Standards
<ul> <li>Minor n</li> <li>All externation</li> <li>overhear reinford should</li> </ul>	paint application to buses nasking / taping rior personnel exits and ad exits require a sed concrete pad which be tied structurally to the g foundation wall.	N/A (self contained Sound Iso Sound Ins	DBA	2 persons	s typical at one time
Access		Security		Flexibility	
<ul> <li>Interloc sprayin</li> <li>Overhe 3658mi</li> <li>Buses</li> <li>18288mi</li> </ul>	ntry + exit doors each side ked doors for curing and g ad door height minimum m (12'-0") both 12192mm & nm (40' & 60') long to be pull through – no backing	All booths to	be controlled and uring curing and	<ul> <li>Ability to 60' bus b while the</li> </ul>	close off a portion of the ooth to paint auto parts other section can e 40' bus. See E24.5.5
Structure		Environment		Equipment	
accommoda Clear Span Floor Loadi Spec. Req: • Refer t Specifi for fall • Refer t Structu Impact • Refer Strucu Ioading • Refer Equipn Structu	ng psf o E23.8 Structural cations on requirements arrest system design. o E23.7.1 and E23.15.17 irral Specifications for Wall Resistance to E23.14 and E23.15.17 ral Specifications for floor g. to E23.15.7 and hent list Appendix L; irral, Mechanical and cal requirements for all to be supported by	Humidity60% View Out Int       NEQ-04         View In       Spec. Req:         • Winter conditions permitted to be 68F       •         • Humidity control not required       •         7       r         1       •		ufactured paint booths	
Electrical S	ervices	Illumination		Room Finishe	es
		Ft. Candles Fluor Quar Incand Sp Other:	tz LEDX_		and finished in ce with manufacturer's

Other: • Refer to Appendix L for specific electrical requirements to equipment.	Lighting for mechanical service areas serving equipment.	requirements. Walls: • As per manufacturer's standard finishes. Ceiling: • As per manufacturer's standard
Mechanical Services	Comments	finishes.
Hot W Cold W Drain Exhaust Air Climate Controlled?Yes Other: • Refer to Appendix L for specific mechanical requirements to equipment.	future paint booth. The pit should b booths that will be installed per E24	

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><li>Paint Bay</li><li>Prep. Bay</li></ul>
<ul> <li>Activity Description</li> <li>Area to store and mix paint before applying to bus.</li> </ul>		Acoustic Treatment Sound Iso DBA Sound Ins Rev. Time		Occupancy / Loading Standards     Transit to confirm	
Access		<ul><li>Security</li><li>Transit to confirm</li></ul>		Flexibility     Single purpose	
Strucural Speci loading. Refer to Equipment lis Structural, M Electrical requ	3.8 Structural n requirements stem design. I Structural or Wall Impact 4 and E23.15.17 fications for floor	Humidity View Out Int       NEQ-06         View In       Spec. Req:         7       Spec. Req:         1       Image: Spec. Req:		ufactured paint mix room	
Electrical Services Power TV Comp AV Tel PA CCTV Wireless Other: • Refer to Append electrical require equipment.	is	Illumination         Ft. Candles Daylight _X_         Fluor Quartz LED: _X_         Incand Special         Other:         • Lighting for mechanical service areas serving equipment.		finishes. Ceiling:	concrete anufacturer's standard anufacturer's standard

Mechanical Services	Comments
Hot W       Cold W         Drain       Exhaust         Air       Climate Controlled?         Other:       Other:	<ul> <li>Height of paint mix booths to be as per manufacturer.</li> </ul>
Refer to Appendix L for specific mechanical requirements to equipment.	

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A1-5.1	Fluid Room	1	1120 SF / 104M²	1	<ul> <li>Typical Service Bay</li> <li>Exterior</li> <li>UTR</li> </ul>
Activity Description		Acoustic Treatme	ent	Occupancy /	Loading Standards
Holding area for maintenance	fluids for bus	Sound Iso Sound Ins	DBA Rev. Time	N/A	
Access		Security		Flexibility	
<ul> <li>Locked double d overhead door) a allow for delivery</li> <li>Width and height forklift</li> <li>Exterior single exist All exterior person overhead exits re reinforced concre should be tied st building foundation</li> </ul>	at exterior to r. t enough for xit door. onnel exits and equire a ete pad which ructurally to the	Locked Roon	ı	Single pu	rpose
<ul> <li>Floor Loading</li> <li>Spec. Req:</li> <li>Floor load to acc weights and fork</li> <li>Refer to E2 Specifications for</li> <li>Refer to Equipm L; Structural, Electrical require</li> </ul>	Height       Floor Loading psf         Floor Loading psf       Spec. Req:         • Floor load to accommodate tank weights and forklift.       •         • Refer to E23.14 Strucural Specifications for floor loading.       •         • Refer to Equipment list Appendix L; Structural, Mechanical and Electrical requirements for all items to be supported by       •				all 5,000L capacity inks with forklift pockets ismission fluid ireeze arrels on equipment including ipes, etc.
Electrical Services		Illumination		Room Finishe	es
receptacles. Mir per space. Max outlets per circu	5A convenience nimum 2 circuits imum six duplex uit. Outlets shall y 3m along the	Ft. Candles Fluor Quart Incand Sp Other: • Explosion pro	z LED <u>X</u> ecial	0") AFF. • Gypsum of 2hrs al Ceiling: • Exposed	hour rated to 3660 (12' – wallboard c/w ULC rating

Mechanical Services	Comments
Hot W       Cold W         Drain       Exhaust         Exhaust       Air         Climate Controlled?Yes       Other:	<ul> <li>Design to explosion-proof construction standards as per current codes required to suit contents of room – see MSDS Appendix G</li> </ul>

A1-6.1       UTR & Washrooms       • 1 - UTR • 1 - Male       • As per Code         • 1 - Female C/W lockers and showers       • Activity Description       • Acoustic Treatment         • Personal hygiene and toileting.       Acoustic Treatment         • Personal hygiene and toileting.       Sound Iso	A Net Total Location / Adjac
<ul> <li>Personal hygiene and toileting.</li> <li>Sound IsoDBA</li></ul>	<ul> <li>located together</li> <li>UTR must be within 45M of new washrooms</li> </ul>
Access       Sound InsX_ Rev. Time         Access       Security         • Off of shop floors       Environment         • Centrally located in expansion       Environment         Height	Occupancy / Loading Standards
<ul> <li>Off of shop floors</li> <li>Centrally located in expansion</li> <li>Structure         <ul> <li>Height</li></ul></li></ul>	As per code
Height	Flexibility     Single use room.
Power TV         Ft. Candles Daylight           Comp AV         Fluor Quartz LED: X_           Tel PA         Incand Special           CCTV Wireless         Other:	<ul> <li>grab bars and toilet accessories</li> <li>Floor Drains</li> <li>2 female showers c/w grab bars, shower curtains, clips and soap</li> </ul>
	Room Finishes         Floor         • Sheet vinyl safety floor for slip resistant covered base.         Walls:         • CMU to 2438mm (8' – 0") AFF and mildew resistant gypsum wallboard above to underside of structure. Painted with Epoxy Paint.         Ceiling:         • ACT

Mechanical Services	Comments
Hot WY Cold WY DrainY ExhaustY Air Climate Controlled?Yes Other: • Heating only • 2 female showers	<ul> <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>

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	
Activity Description	า	Acoustic Treatment		Occupancy /	Occupancy / Loading Standards	
Supervisors offices		Sound Iso DBA Sound InsX Rev. Time		1 occupant/workstation per office		
Access		Security		Flexibility		
<ul> <li>From shop floors</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>		Lockable door		Single use room.		
Structure		Environment		Equipment		
Height Clear Span Floor Loading Spec. Req:	psf	Temp80FView Out Ext         HumidityView Out Int         View In         Spec. Req:         • Winter conditions permitted to be 74F         • Humidity control not required		<ul> <li>Computers</li> <li>Telephones</li> <li>Printers</li> <li>Chairs/Desks Furniture</li> </ul>		
Electrical Services		Illumination		Room Finishes		
Power <u>X</u> TV <u></u> Comp <u>X</u> AV <u></u> Tel <u>X</u> PA <u></u> CCTV <u></u> Wireless <u>X</u> Other:		Ft. Candles Daylight Fluor Quartz LED:_X Incand Special Other:		<ul> <li>Floor:</li> <li>Sheet vinyl safety floor for slip resistant covered base.</li> <li>Walls:</li> </ul>		
receptacles. M per space. Ma outlets per cirr be located eve	15A convenience inimum 2 circuits ximum six duplex cuit. Outlets shall ery 3m along the within the space.			GWB abo	200mm (4' – 0") AFF and ove to underside of ceiling. vith Epoxy Paint.	
Mechanical Service	es	Comments				
Hot W Cold W Drain Exhaust Air Climate Controlled Other:		Offices to hav	ve glazing as appropria	ate for sight lines	s to the shop.	

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac	
A1-6.3	Mechanical and Electrical Room(s)	As Required	To suit Mechanical and Electrical design	As Required		
Activity Description	า	Acoustic Treatment		Occupancy / Loading Standards		
Mechanical and electrical service spaces		Sound Iso DBA Sound InsX Rev. Time		Staff as required for regular maintenance activities		
Access		Security		Flexibility		
<ul> <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>		Lockable door		Single use room.		
Structure		Environment		Equipment		
<ul> <li>Height</li> <li>Clear Span</li> <li>Floor Loading psf</li> <li>Spec. Req:</li> <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>		<ul> <li>Temp80F View Out Ext Humidity60%_ View Out Int View In Spec. Req:</li> <li>Winter conditions permitted to be 68F</li> <li>Humidity control not required</li> </ul>		<ul> <li>Mechanical and electrical equipment as required for the design.</li> </ul>		
Electrical Services		Illumination		Room Finishes		
Power <u>X</u> TV Comp <u>X</u> AV Tel <u>X</u> PA CCTV <u></u> Wireles Other:	_	Ft. Candles Daylight Fluor Quartz LED: <u>X</u> Incand Special Other:		<ul> <li>Floor:</li> <li>Polished concretre at grade. Epoxy if a penthouse condition.</li> <li>Walls:</li> <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> <li>Ceiling:</li> <li>Open to structure above</li> </ul>		
Mechanical Service	es	Comments				
Hot W Cold W Drain Exhaust Air Climate Controlled Other:						