

GoTriangle RFQ 24-048

**Exhibit E**

**2022 Regional Fleet & Facilities Study**

**BOMF Building and Site Program**

*(8 pages - including this page)*

**PROGRAM SUMMARY: Nelson Road July 1, 2022**

MAINTENANCE BAYS	13	
SERVICE LANES	2	
SERVICE BY-PASS LANES	0	(existing conditions / renovation)
PAINT PREP/PAINT BOOTH	0	
BUILDING AREA	74,446	square feet (sf)
SITE AREA	541,732	12.44 Property area, sf/acres

Notes:

Cold Storage - first preference for shelter/stop amenity storage is to locate off-site at another GoTriangle property. Second preference and possibly overflow is to include cold storage in the expansion/renovation program.

Add storage room/area for brochures.

Add large meeting room separate from the training room.

VEHICLES	Current		Program		STAFF		REMARKS
	Current	Program	Current	Program	Current	Program	
Buses: 40/42-ft	82	120	Maintenance	16	24	3 shifts; technicians; 0.3 tech per bus	
Buses: 30/35-ft		0	Maint Superv	6	8	2 shifts	
ParaTransit (cut-aways)	29	50	Service	10	15	2 shifts; service personnel includes hostlers, includes fuelers	
Articulated Buses (60-ft, single)	0	0	Parts	2	2	2 shifts (includes 1 admin)	
Other bus/trolley	0	0	<b>Subtotal</b>	<b>34</b>	<b>49</b>		
<b>Total Buses</b>	<b>111</b>	<b>120</b>	Operations	26	31	1 shift	
Non-Revenue	25	30	Administration	4	4	1 shift	
Employee Parking	108	177	<b>Subtotal</b>	<b>0</b>	<b>35</b>		
Visitor Parking	10	25	<b>Operators</b>	<b>75</b>	<b>204</b>	3 shifts; 1.7 operators per bus	
<b>Total Non-Revenue/Employee/Visitor</b>	<b>143</b>	<b>252</b>	<b>Total</b>	<b>109</b>	<b>288</b>	2.4 employees per bus	

Key: OF = office; WS = work station; CL = enclosed; OP = open; F = fenced; SF = square feet

ROOM #	DESCRIPTION	SPACE	SF EACH	QUANTITY	SUBTOTAL	STAFF	REMARKS
<b>Maintenance</b>							
Offices and Time Clock							
M	1 Superintendent	OF	140	1	140	1	10 x 14
M	2 Assistant Superintendent	OF	120	1	120	1	10 x 12
M	3 Supervisors	WS	120	7	840	7	10 x 12; 1 supervisor per 7 tech
M	4 Work Control Clerk	OF	200	0	0	0	
M	5 Lead Person Area	WS	80	0	0	0	
M	6 PMI Lead	WS	72	0	0	0	
M	7 Time Clock	OP	60	1	60		In shop area, near Supervisors
	<b>Subtotal</b>				<b>1,160</b>		
	<b>Circulation</b>			<b>20%</b>	<b>232</b>		
	<b>Mechanical/Electrical</b>			<b>8%</b>	<b>111</b>		Includes electric service room for meter, switchgear, UPS, ATS (prorate)
	<b>Building Factor</b>			<b>6%</b>	<b>90</b>		
	<b>Offices and Time Clock</b>			<b>Total</b>	<b>1,594</b>	<b>9</b>	
Support Areas							
M	8 Training Room	CL	600	1	600	40	occupants; dividable space; includes library
M	9 Training Room Storage	CL	100	1	100		
M	10 Women's RR, Shwr, Lockers	CL	416	1	416	49	15 lockers, 2 SHWR, 2 WC, 2 LAV
M	11 Men's RR, Shwr, Lockers	CL	749	1	749		34 lockers, 2 SHWR, 2 WC, 3 UR, 3 LAV
M	12 Lunchroom	CL	392	1	392	20	occupants at one time; tables & chairs
M	13 Vending / Pantry	CL	120	1	120		Microwave, refrigerator, sink, storage, counter, ice machine, vending machines
M	14 Custodial	CL	60	1	60		
M	15 General Office Storage	CL	60	1	60		
M	16 Telecom Room	CL	100	1	100		Telephone and data line panels
M	17 Laundry Service Lockers	OP	80	1	80		
M	18 Vestibule	OP	80	1	80		LEED
	<b>Subtotal</b>				<b>2,757</b>		
	<b>Circulation</b>			<b>15%</b>	<b>414</b>		
	<b>Mechanical/Electrical</b>			<b>8%</b>	<b>254</b>		Includes electric service room for meter, switchgear, UPS, ATS (prorate)
	<b>Building Factor</b>			<b>6%</b>	<b>205</b>		
	<b>Support Areas</b>			<b>Total</b>	<b>3,629</b>	<b>49</b>	

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SERVICE LANES	2	
SERVICE BY-PASS LANES	0	(existing conditions / renovation)
PAINT PREP/PAINT BOOTH	0	
BUILDING AREA	74,446	square feet (sf)
SITE AREA	541,732	12.44 Property area, sf/acres

	VEHICLES		STAFF		REMARKS	
	Current	Program	Current	Program		
Buses: 40/42-ft	82	120	Maintenance	16	24	3 shifts; technicians; 0.3 tech per bus
Buses: 30/35-ft		0	Maint Superv	6	8	2 shifts
ParaTransit (cut-aways)	29	50	Service	10	15	2 shifts; service personnel includes hostlers, includes fuelers
Articulated Buses (60-ft, single)	0	0	Parts	2	2	2 shifts (includes 1 admin)
Other bus/trolley	0	0	<b>Subtotal</b>	<b>34</b>	<b>49</b>	
<b>Total Buses</b>	<b>111</b>	<b>120</b>	Operations	26	31	1 shift
Non-Revenue	25	30	Administration	4	4	1 shift
Employee Parking	108	177	<b>Subtotal</b>	<b>0</b>	<b>35</b>	
Visitor Parking	10	25	<b>Operators</b>	<b>75</b>	<b>204</b>	3 shifts; 1.7 operators per bus
<b>Total Non-Revenue/Employee/Visitor</b>	<b>143</b>	<b>252</b>	<b>Total</b>	<b>109</b>	<b>288</b>	2.4 employees per bus

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ROOM #	DESCRIPTION	SPACE	SF EACH	QUANTITY	SUBTOTAL	STAFF	REMARKS
<b>Maintenance Bays</b>							
M 19	Running Repair Bay (Work Bay)	OP	1,160	10	11,600		Interior vertical clearance 20-ft, all bays
M 20	Arctic Repair Bay (drive thru)	OP	1,640	0	0		20 x 58; in-ground 2-post; bay doors 16-ft vertical clearance
M 21	Inspection, Standard/Work Bay	OP	1,160	0	0		20 x 82; in-ground 3-post
M 22	Inspection, Articulated	OP	1,640	0	0		20 x 58; accommodates 42-ft bus
M 23	Tire Bay/Work Bay	OP	1,000	1	1,000		20 x 82; accommodates articulated bus
M 24	HVAC/scaffold bay	OP	1,450	1	1,450		20 x 50; portable lifts; set of jack stands
M 25	Chassis Wash	OP	1,700	1	1,700		25 X 58; fall restraint, parallelogram lifts
M 26	Steam Equipment Room	CL	80	1	80		25 X 68; steam cleaning; parallelogram lift
M 27	End bay allowance	OP	300	4	1,200		Steam equipment; storage for protective gear
M 28	Common Aisle	OP	200	15	3,000		5-ft wide added bay width at end bays
	<b>Subtotal</b>				<b>20,030</b>		Along end of bays; 10-ft tool box/parts temp plus 10-ft circulation
	<b>Mechanical/Electrical</b>			<b>8%</b>	<b>1,602</b>		Includes electric service room for meter, switchgear, UPS, ATS (prorate)
	<b>Building Factor</b>			<b>6%</b>	<b>1,298</b>		
	<b>Maintenance Bays</b>			<b>Total</b>	<b>22,930</b>	<b>0</b>	
<b>Shops and Storage</b>							
M 29	Tire Shop	OP	800	1	800		brake testing; no in-floor dyno
M 30	Tire Storage	OP	800	1	800		
M 31	General Machine Shop Area	OP	600	1	600		Store 60 retreads, 30 spares, 20 auto
M 32	Battery Room	CL	200	1	200		Overhead crane
M 33	Air Compressor Room	CL	150	1	150		Charging station and racks; special ventilation requirements
M 34	Lube Room / Fluids Storage	CL	800	1	800		Acoustic control
M 35	Mechanics Tool Crib (cage)	CL	461	3	1,382		MSDS data required
M 36	Parts Storage	CL	3,360	1	3,360		Tool boxes each 8 x 4; 1 cage per shift; total 24 boxes
M 37	Parts Clerk	OP	140	1	140	2	28 sf per bus; shelvg; automated vert carousel parts unit; incl grounds maintenance
M 38	Shipping and Receiving	OP	400	1	400		3 shifts; open to Parts Storage; service window/counter; library
M 39	Specialized Tool Storage	OP	200	1	200		No dock; OH door; within parts room; exterior access
M 40	Large Parts Storage	CL	1,200	1	1,200		Within Parts Storage
M 41	Recyclables Storage/Collection	CL	120	1	120		Pallet storage: front-end caps, power packs, differentials, brake drums
M 42	Small Component Paint	CL	150	1	150	1	LEED Prerequisite; for entire facility
M 43	Welding	CL	150	1	150	1	
M 44	Sign Shop	CL	200	1	200	1	
M 45	Electronics Shop	CL	150	1	150	1	

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Articulated Buses (60-ft, single)	0	0	Parts	2	2	2 shifts (includes 1 admin)	
Other bus/trolley	0	0	<b>Subtotal</b>	<b>34</b>	<b>49</b>		
<b>Total Buses</b>	<b>111</b>	<b>120</b>	Operations	26	31	1 shift	
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ROOM #	DESCRIPTION	SPACE	SF EACH	QUANTITY	SUBTOTAL	STAFF	REMARKS
	<b>Subtotal</b>				<b>10,802</b>		
	<b>Circulation</b>			<b>15%</b>	<b>1,620</b>		
	<b>Mechanical/Electrical</b>			<b>8%</b>	<b>994</b>		Includes electric service room for meter, switchgear, UPS, ATS (prorate)
	<b>Building Factor</b>			<b>6%</b>	<b>805</b>		
	<b>Shops and Storage</b>			<b>Total</b>	<b>14,222</b>	<b>2</b>	
<b>Service Lanes - Fare/Fuel/Wash/Fluids</b>							1 future attendant
S	1	Fare/Fueling/Washing	OP	5,280	2	10,560	Fare collection, fueling, DEF, wash; fuel on right; curbs; snowmelt at exit
S	2	By-pass Lane (expansion lane)	OP	5,280	0	0	
S	3	Washwater Reclaim Equipment	CL	200	1	200	
S	4	Service Office/Control Room	OF	120	1	120	2
S	5	Unisex Toilet	CL	112	2	224	Includes service sink
S	6	Service Storage	OP	112	1	112	
S	7	Small Equipment Storage	CL	112	1	112	
S	8	Lube	CL	140	1	140	
S	9	Compressor	CL	200	1	200	Acoustic control
S	10	Vacuum Equipment	CL	240	1	240	Acoustic control
S	11	Vault	CL	160	1	160	Special security
	<b>Subtotal</b>					<b>12,068</b>	
	<b>Mechanical/Electrical</b>			<b>8%</b>	<b>965</b>		
	<b>Building Factor</b>			<b>6%</b>	<b>782</b>		
	<b>Service Lanes - Fare/Fuel/Wash/Fluids</b>					<b>13,815</b>	<b>2</b>
	<b>Maintenance &amp; Service</b>			<b>Total</b>		<b>56,190</b>	

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ROOM #	DESCRIPTION	SPACE	SF EACH	QUANTITY	SUBTOTAL	STAFF	REMARKS
<b>Operations</b>							
	Offices, Training and Operator Areas						2 to 3 bus simulators
O 1	Superintendent	OF	140	1	140	1	Includes personnel files; 10x14
O 2	Supervisors	OF	120	15	1,800	1	10x12
O 3	Operations Supervisor	OF	120	0	0	1	10x12
O 4	Unassigned	OF	80	0	0	4	8x10
O 5	Small Conference Room	CL	150	1	150		Table & chairs for 6; acoustic privacy
O 6	Office Work Room	OP	150	1	150		Copier, fax, etc.
O 7	File Storage	CL	100	1	100		
O 8	Safety and Training	OF	120	7	840	7	
O 9	Operators Day Room	CL	1,250	1	1,250	50	operators at one time, TV, pool table, tables and chairs (trng, break, dayrm-95p)
O 10	Training Room	CL	1,563	1	1,563	50	occupants (trng, break, dayrm-95p)
O 11	Training Room Storage	CL	100	1	100		
O 12	Training Office	CL	120	1	120	1	
O 13	Lunch Room/Break Area	CL	656	1	656	35	occupants (trng, break, dayrm-95p)
O 14	Pantry	CL	100	1	100		Microwave, refrigerator, sink, storage, counter, ice machine; adjoining Lunch Rm
O 15	Men's RR, Shwr	CL	660	1	660		3 SHWR; 2 WC; 3 UR; 5 LAV
O 16	Women's RR, Shwr	CL	660	1	660		3 SHWR; 5 WC; 5 LAV
O 17	Lockers	OP	1,224	1	1,224	204	1/2-size lockers, 2 high
O 18	Quiet Room	CL	200	1	200		
O 19	Storage	CL	200	1	200		Files, paper, supplies, schedules, etc.
O 20	Vestibule with walk-off mat	OP	80	3	240		LEED
	<b>Offices, Training and Operator Areas subtotals</b>				<b>10,153</b>	<b>219</b>	
<b>Exercise Room</b>							
O 21	Exercise Room	CL	600	1	600		Weight and aerobic equipment
	<b>Exercise Room subtotals</b>				<b>600</b>	<b>0</b>	

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Articulated Buses (60-ft, single)	0	0	Parts	2	2	2 shifts (includes 1 admin)	
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ROOM #	DESCRIPTION	SPACE	SF EACH	QUANTITY	SUBTOTAL	STAFF	REMARKS
Dispatch Suite							
O 22	Check-in Counter and Work Area	CL	200	1	200	3	1 per shift
O 23	Operator side of counter	OP	48	1	48		
O 24	Mailboxes	OP	96	1	96		Dispatcher fills from Dispatch Work Area
O 25	File Storage	OP	120	1	120		File storage for each clerk
O 26	Lockers	OP	5	6	30	6	full lockers
O 27	Lost and Found Storage	OP	40	1	40		
O 28	Custodial	CL	60	1	60		
O 29	Telecom Room	CL	120	1	120		
	<b>Dispatch Suite subtotals</b>				<b>714</b>	<b>3</b>	
	<b>Operations subtotal</b>				<b>11,467</b>		
	<b>Circulation</b>			<b>15%</b>	<b>1,720</b>		
	<b>Mechanical/Electrical</b>			<b>8%</b>	<b>1,055</b>		
	<b>Building Factor</b>			<b>6%</b>	<b>855</b>		
	<b>Operations</b>			<b>Total</b>	<b>15,096</b>	<b>222</b>	Operations includes drivers & Operations staff
<b>Administration</b>							
Offices, Conference/Board Room							
A 1	General Manager	OF	140	1	140	1	10x14
A 2	Assistant General Manager	OF	120	1	120	1	10x12
A 3	Human Resources	OF	120	1	120	1	10x12; includes personnel files
A 4	Payroll	OF	120	1	120	1	10x12
A 5	Marketing	OF	120	0	0	0	10x12
A 6	Planning	OF	80	0	0	0	8x10
A 7	IT / Security Camera Room	OF	120	1	120	1	8x10
A 8	Security Officer	OF	80	1	80	0	8x10
A 9	Workstations	WS	80	3	240	3	8x10
A 10	Reception	OP	120	1	120	1	8x10 (with small lost and found closet)
A 11	Lobby/Waiting Area	OP	120	1	120	0	chairs, table, display/brochure rack

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ROOM #	DESCRIPTION	SPACE	SF EACH	QUANTITY	SUBTOTAL	STAFF	REMARKS
A 12	Closet	OP	40	1	40	0	Coat closet
A 13	Conference	CL	120	1	120	0	10x12
A 14	Storage	CL	240	1	240	0	12x20
A 15	Work Room	OP	180	1	180	0	10x18; copiers, cabinets, work counter
A 16	Conference	CL	120	1	120	0	10x12
A 17	Pantry/Breakroom	OP	240	1	240	0	Microwave, refrigerator, sink, storage, counter, ice machine, vending machines
A 18	Boardroom	CL	1,230	0	0	110	Occupants maximum, chairs only
A 19	ID card photo-taking	CL	100	1	100		
A 20	Drug Testing Room	CL	80	1	80		8 x10 Room with toilet / lavatory
	<b>Administration subtotal</b>				<b>2,300</b>		
	<b>Circulation</b>			<b>20%</b>	<b>460</b>		
	<b>Mechanical/Electrical</b>			<b>8%</b>	<b>221</b>		
	<b>Building Factor</b>			<b>6%</b>	<b>179</b>		
	<b>Administration</b>			<b>Total</b>	<b>3,160</b>	<b>9</b>	
<b>Vehicle Storage</b>							
VS 1	40-ft Bus	OP	658	120	78,960		14x47
VS 2	35-ft Bus (30/35)	OP	560	0	0		14x40
VS 3	25-ft Bus (paratransit)	OP	420	0	0		14x30
VS 4	Articulated Bus	OP	910	0	0		14 x 65
VS 5	Non-Revenue Vehicles	OP	200	25	5,000		10 x 20
VS 6	Circulation (ext, lane ends)	OP	1,050	4	4,200		70-ft deep x lane width
	<b>Subtotal</b>				<b>88,160</b>		
	<b>Added Circulation, Pass-Thru Bays, Articulated</b>				<b>13,800</b>		
	<b>Bus Parking Factor (pattern-based; general circulation)</b>			<b>2.00</b>	<b>203,920</b>		Tandem pattern; aisles, access lanes, walkways
	<b>Vehicle Storage</b>			<b>Total</b>	<b>305,880</b>	<b>0</b>	

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	VEHICLES		STAFF		REMARKS	
	Current	Program	Current	Program		
Buses: 40/42-ft	82	120	Maintenance	16	24	3 shifts; technicians; 0.3 tech per bus
Buses: 30/35-ft		0	Maint Superv	6	8	2 shifts
ParaTransit (cut-aways)	29	50	Service	10	15	2 shifts; service personnel includes hostlers, includes fuelers
Articulated Buses (60-ft, single)	0	0	Parts	2	2	2 shifts (includes 1 admin)
Other bus/trolley	0	0	<b>Subtotal</b>	<b>34</b>	<b>49</b>	
<b>Total Buses</b>	<b>111</b>	<b>120</b>	Operations	26	31	1 shift
Non-Revenue	25	30	Administration	4	4	1 shift
Employee Parking	108	177	<b>Subtotal</b>	<b>0</b>	<b>35</b>	
Visitor Parking	10	25	<b>Operators</b>	<b>75</b>	<b>204</b>	3 shifts; 1.7 operators per bus
<b>Total Non-Revenue/Employee/Visitor</b>	<b>143</b>	<b>252</b>	<b>Total</b>	<b>109</b>	<b>288</b>	2.4 employees per bus

Key: OF = office; WS = work station; CL = enclosed; OP = open; F = fenced; SF = square feet

ROOM #	DESCRIPTION	SPACE	SF EACH	QUANTITY	SUBTOTAL	STAFF	REMARKS
<b>Personal Parking and Other Site</b>							
P 1	Personal Parking Area		400	252	100,800		Operators; maintenance, staff, visitors; includes circulation, ADA, LE/HE
P 2	Bicycle Parking		36	13	454		LEED; min 5% of peak period facility users; locate max 200 yds from bldg entrance
P 3	Diesel	OP		2			2 UST; 20,000 gal
P 4	Used Oil	OP		1			1 UST; 5,000 gal
P 5	Catalytic Additive	OP		incl			Provided in maintenance bays
P 6	Gasoline	OP		1			1 UST; 10,000 gal
P 7	Dumpsters	F	40	3	120		Trash, recycle metal, recycle cardboard, other recycle
P 8	Hazmat Shed	CL	80	1	80		
P 9	Standby Generator; 100%	OP	510	1	510		1000 kW generator with daytank and walk-in housing; acoustic control
P 10	Snow Storage	OP		0.4%	2,847		Plowed snow temporary storage; approx 0.7% of pavement area
P 11	Patio	OP	200	1	200		If site allows
P 12	Smoking Area	OP	100	1	100		LEED; at least 25-feet from building entrance; code and zoning apply
	<b>Personal Parking and Other Site</b>			<b>Total</b>	<b>105,110</b>	<b>0</b>	
<b>Summary/Totals</b>							
M	<b>Maintenance</b>				<b>42,375</b>		
S	<b>Service Lanes</b>				<b>13,815</b>		
O	<b>Operations</b>				<b>15,096</b>		Staff includes drivers
A	<b>Administration</b>				<b>3,160</b>		
	<b>Total Building Area (total above)</b>				<b>74,446</b>		
VS	<b>Vehicle Storage</b>				<b>305,880</b>		Bus, non-revenue, visitors
	<b>Total, all buildings and bus storage</b>				<b>380,326</b>		
P	<b>Personal Parking and Other Site</b>				<b>105,110</b>		Employee personal vehicles; includes motorcycle parking
	<b>Total, above</b>				<b>485,437</b>		
Site	<b>Stormwater/Setbacks/Landscaping</b>				<b>169,903</b>	<b>35%</b>	Fencing, landscaping, setbacks, yards, stormwater management
	<b>Total, all areas</b>				<b>655,339</b>	<b>15.04</b>	<b>acres</b>

**Notes:**

- 1 Circulation:** Hallways, stairs, vehicle turning radius, or any other necessary space needed for a person or vehicle to move from one location to another
- 2 Building Factor:** Allowance for all interior and exterior wall components
- 3** Total all shifts are prorated as noted in "REMARKS"