



Vehicle Barrier Proposal



- Sgt. José Quintanilla
- EOPS-Operational Planning Unit



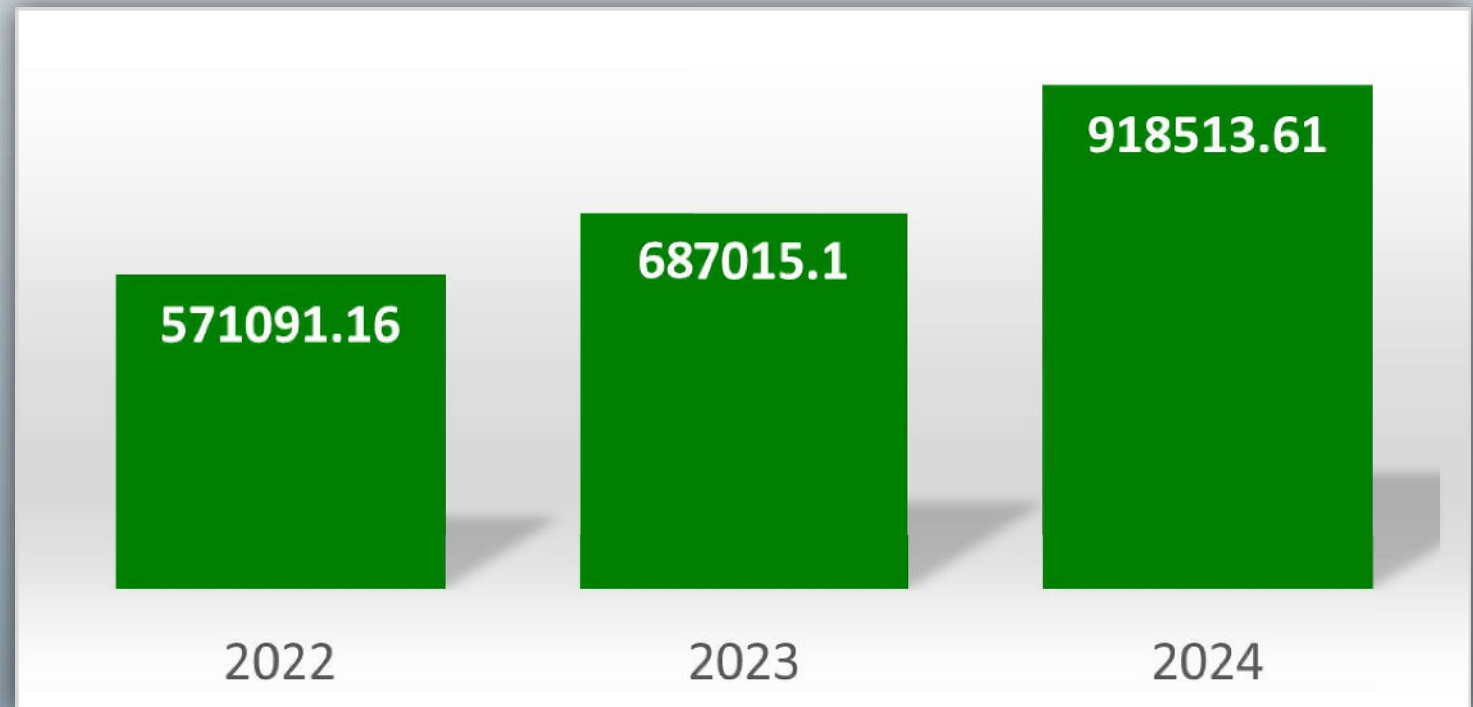
Objectives

- HVB Costs: 2022 to 2024
- COV: Freightliner
- Granville Entertainment District vs. Nashville
- Meridian Rapid Defense Group
- Meridian vs. Current Methods
- Price per Trailer and Granville St. Pilot Project
- Mifram Security
- ATG Access
- Analysis and Recommendation
- Conclusion



HVB Costs: 2022-2024 3yr total \$2.2m

Event	Cost (\$)
Chinatown New Year Parade X 8 HVBs	42,000
Car Free Days X 6 HVBs	55,000/day
Vaisakhi X 12 HVBs	51,000
BMO Marathon X 4 HVBs	31,000
Italian Day X 4 HVBs	50,000
Greek Day X 4 HVBs	33,000
Canada Day X 3 HVBs	25,000
Pride X 4 HVBs	33,000
Celebration of Lights (COL) X 12 HVBs	155,000/night



COV:
Freightliner



CHASSIS SPECS

UNIT INFORMATION

VIN: 1FVHG3CY7DHB0241
Dash: 49,540 Miles
ECM: 49,519 Miles
6x4 Tandem
Air Brakes
200 Inch Wheelbase
135 Inch Cab To Trunnion
185 Inch Cab To End
Of Frame
Double Frame
Pintle Hitch
-Air & Electric
Connections

CAB FEATURES

Standard Daycab
Air Ride Suspension
Aerodynamic Mirrors
Air & City Horns
F/G Sun Visor

INTERIOR FEATURES

Mid-Level Interior
A/C Equipped
Power Windows
Power Door Locks
High Back Air Ride
Driver Seat
High Back Fixed
Passenger Seat
Cruise Control
Tilt/Telescopic
Steering Column
AM/FM/CD

GVWR

66,000 LBS.

FRONT AXLE

20,000 LB. FAWR

REAR AXLES

46,000 LB. RAWR

4.33 Ratio

Diff. Lock

Interaxle Lock

REAR SUSPENSION

TufTrac

ENGINE

Cummins ISL, 380 HP
S/N: 73362317
Dash & ECM: 4987 Hours
Engine Brake
Block Heater
RH Vertical Exhaust

TRANSMISSION

Fuller FR0-13210C
10 Speed Manual

TIRES/WHEELS

Front Tire: 425/65R22.5
Front Wheel: Aluminum
Rear Tire: 11R22.5
Rear Wheel: Aluminum

FUEL TANK(S)

LH 70 Gallon Aluminum

EQUIPMENT SPECS

2014 Ox 16 FT. 15-16YD

S/N: S142706252251AL

Elliptical Dump Body

16 Ft. Length

48 Inch Sides

15-16 Yard Capacity

High Lift Tailgate

Air Lock

Electric Tarp

Dump Apron

24 Inch Cab Guard

2013 Freightliner 114SD 6x4 Ox Bodies Dump Truck



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DISCLAIMER: Specifications are believed to be correct, but may contain errors and/or omissions.
Pictures are representative and may not be identical.

PRICE: Call For Price

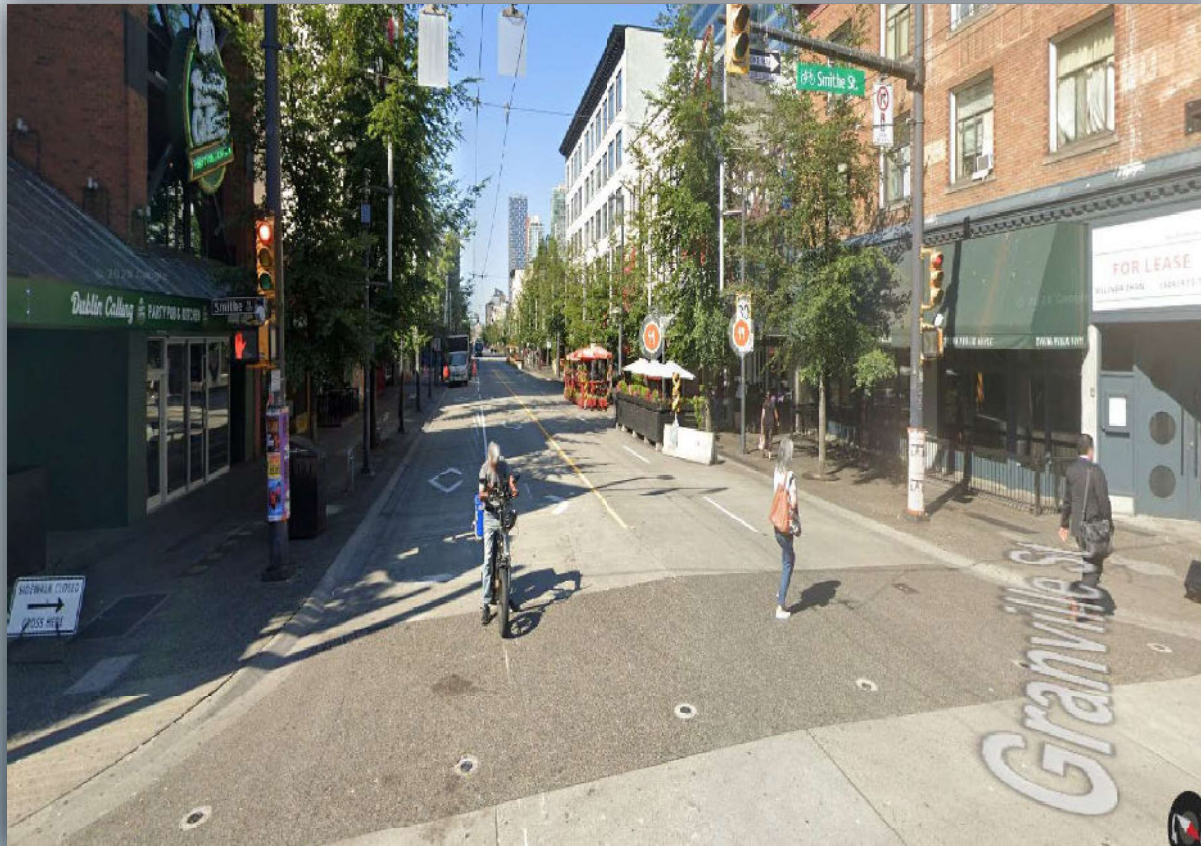
STOCK#: RA214338

EX WORKS: Kansas City, MO

QUOTE NUMBER: PO1.18-C_20

EXPIRATION DATE:

COV High Traffic Points (GED) vs. Nashville Entertainment District



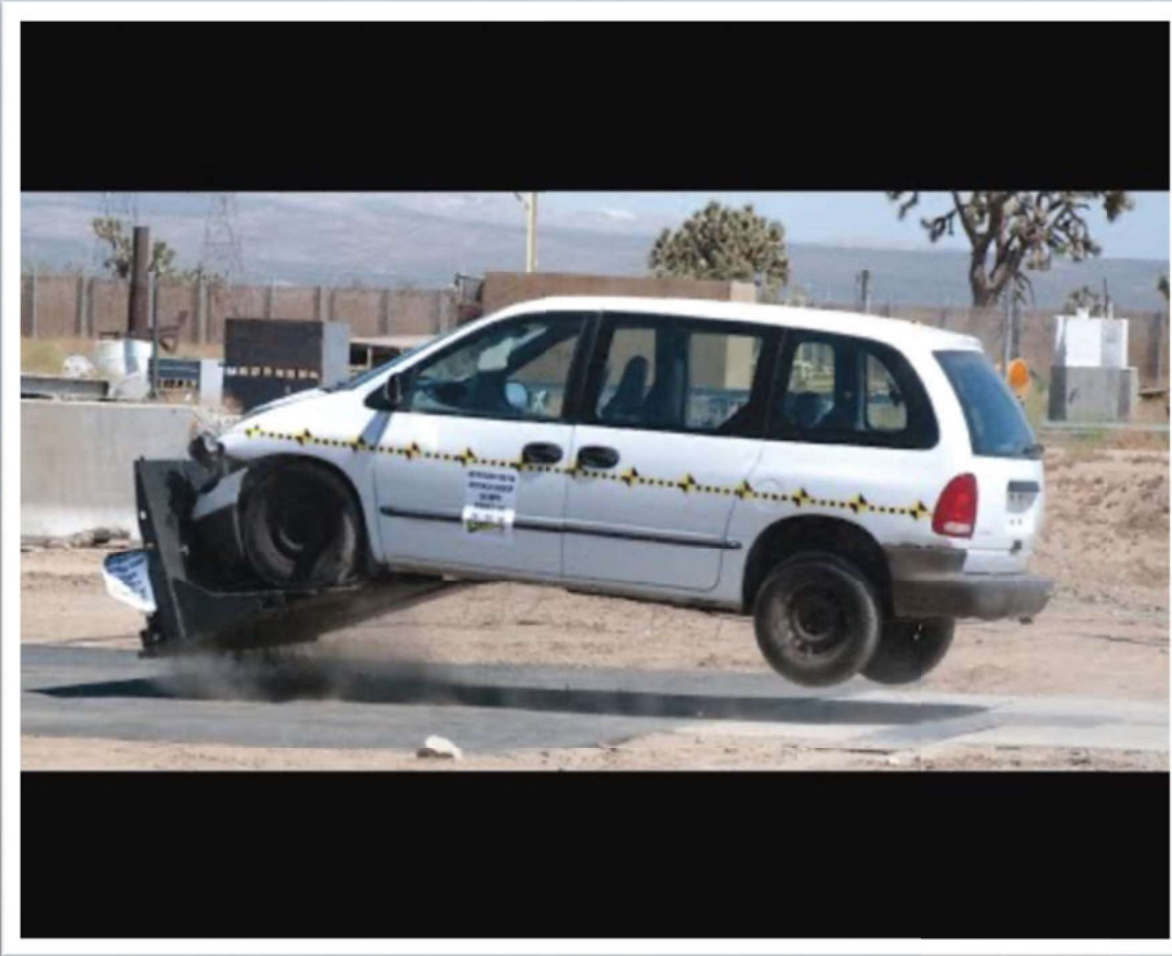
COV high traffic points Ex. Granville Entertainment Districts, 100 blk Robson party zone, Robson/VAG plaza



Nashville entertainment district



Meridian vs Current Methods



Median



COV



Meridian Rapid Defense Group

ARCHER TRAILER KIT 1000











Part-No.
MRDG-TRLKIT1000



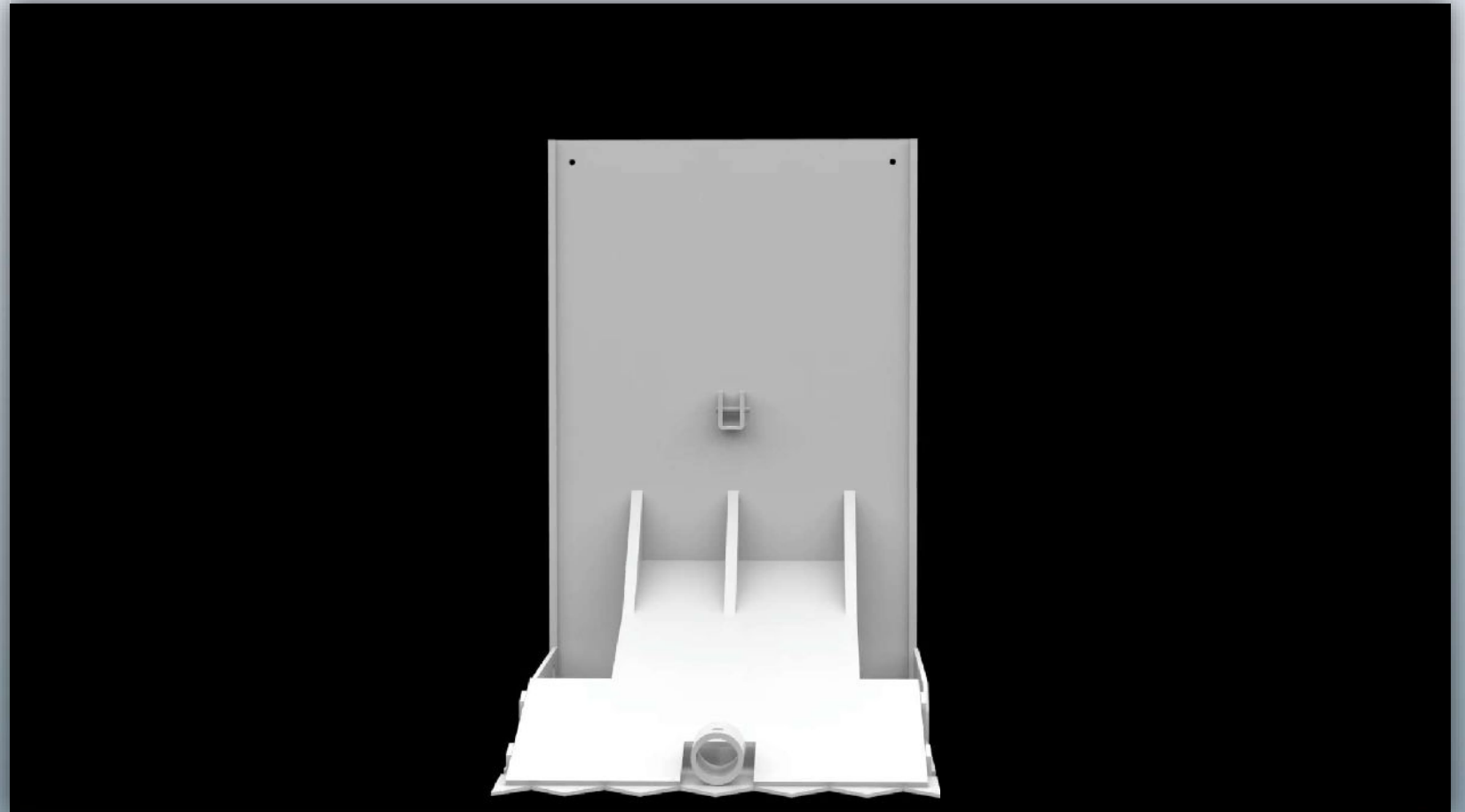
Archer Trailer Kit 1000

- 8 - Archer 1200 Barriers
- 1 - Archer Hauler 2.0
- 2 - Archer Field Tow Bars
- 7 - 4ft. Archer Arrestor Cables
- 1 - Archer Rapid Gate Kit
- 1 - Archer Wayfinding Package
- 7 - ADA 3 Channel Cable Covers
- 1 - Archer Hauler Mount
- 2 - ADA Cover Compartments
- 1 - Beam Gate Beam Cradles

Meridian Archer Trailer Kit 1000 Components

<p>8 - Archer 1200 Barrier</p> 	<p>1 - Archer Hauler 2.0</p> 	<p>2 - Archer Field Tow Bar</p> 
<p>7 - Archer Arrestor Cables</p> 	<p>1 - Archer Rapid Gate Kit</p> 	<p>1 - Wayfinding Package Kit</p> 
<p>7 - ADA 3-Channel Cable Cover</p> 	<p>1 - Archer Hauler Mount</p> 	<p>2 - ADA Cover Compartments</p> 
<p>1 - Beam Gate Beam Cradle</p> 		

Eight Per String



MERIDIAN[®]
RAPID DEFENSE GROUP



Cost

- Per Trailer (8)

\$200,000

- Granville St – 2 Strings

\$400,000

- COL – replace 12 HVB's

\$2.4m

ARCHER 1200 BARRIER

Part-No. AB1200



1

- Modular barrier
- Expandable footprint
- Compatible with all Meridian products

2

- Over **20** certified configurations
- The most crash tested mobile vehicle barrier in the world
- Reusable after impact

3

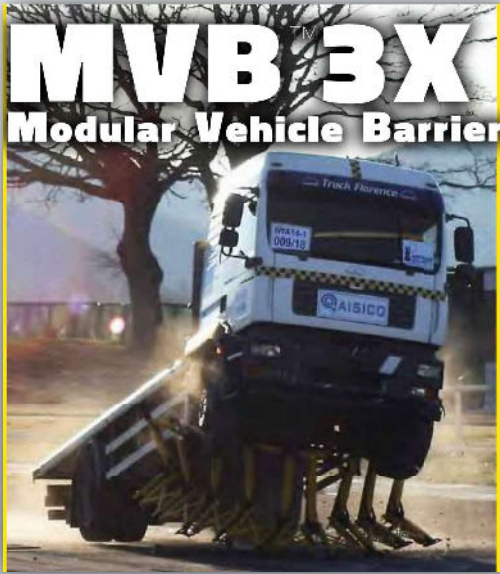
- No hydraulics
- No electricity
- No forklifts
- One person deployment
- Maintenance free

Length – 48 in.
Width – 24 in.
Height – 35 in.
Weight – 680

SCAN ME

Archer 1200 Barrier





Vendor #2 Mifram Security

- Metalwork and civil engineering company based in Israel with a supplier in Stouffville Ontario Canada
- **MVB 3X MVB:**
Attached 4-foot unit/on Castors for mobility in set up.
- 50lb each
- Can be swung aside for emergency evacuation or emergency vehicle access
- Stores compactly in wooden or metal storage boxes



Meridian Rapid Defense Group



MVB 3X
Modular Vehicle Barrier

Length: 3.87 ft.
Width: 1.67 ft.
Height: 2.7 ft.
Weight: 52.9 lbs.

Quantity	Description	Unit Price	Amount (\$)
16	MVB3X Mifram Barrier	2,846.87	\$45,549.92
1	Wooden Storage Box	1,800.00	\$1,800.00
<i>Total</i>			\$47,349.92



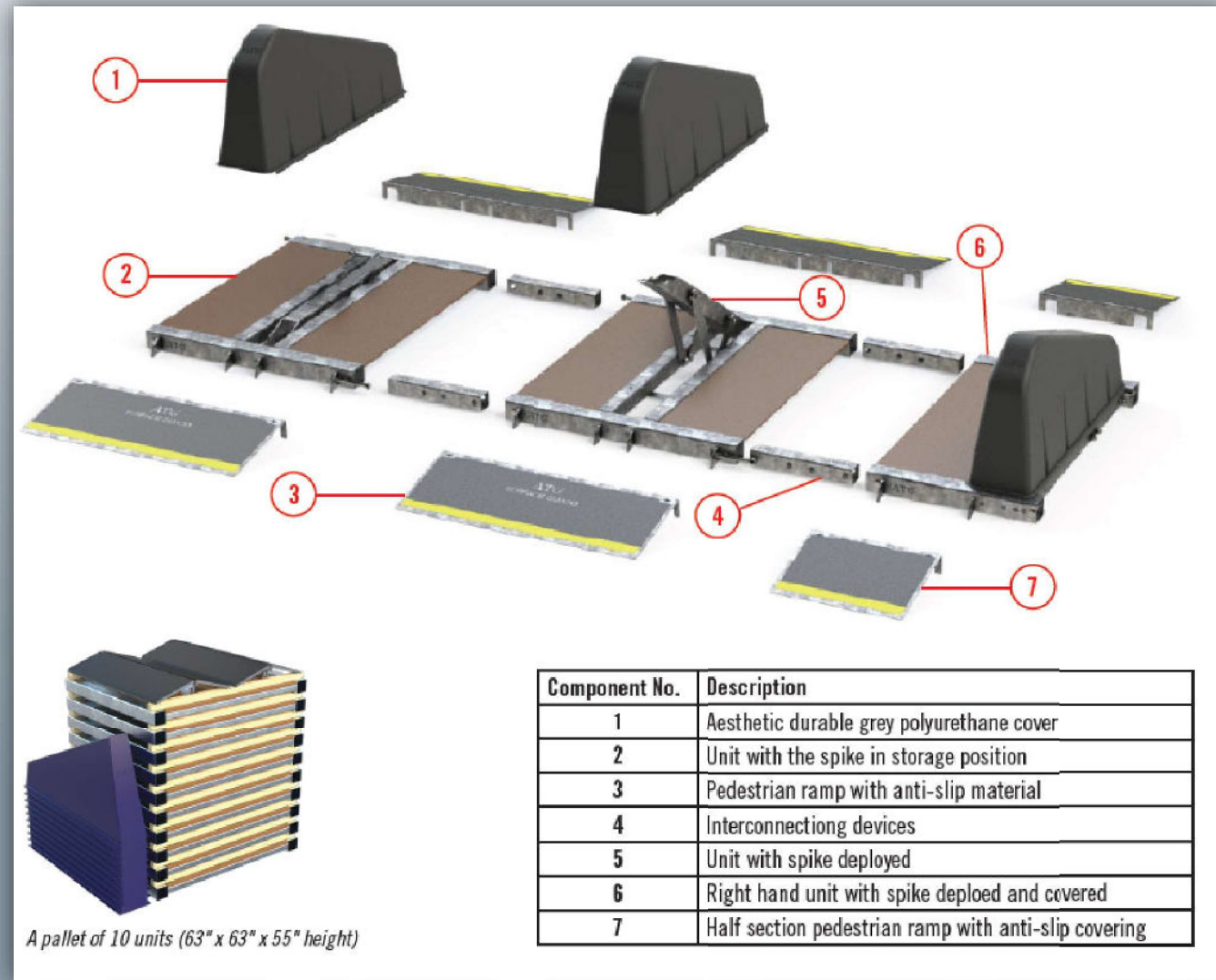


Vendor #3 ATG Access

- Based in UK
- **Surface Guard MVB:** Installation, assembly and removal of units requires a three person team to safely complete.
- Seven individual components
- \$140,000 for 50 feet of roadway



ATG Access: Surface Guard Assembly



Recommendation

- Four tier
 - Enhanced permanent barriers in dedicated entertainment zones
 - Purchase of s. 17 Mifram MVB barriers to support LVB's s. 17
 - Purchase of s. 17 trailers of Archer barriers s. 17
 - Keep existing HVB practices intact
- Mifram and Meridian can be deployed for both static short or long-term deployments.
- Mifram and Meridian have ease of emergency vehicle access.
- Mifram purchased/operated by VPD
- Meridian trailers to be City led- purchase, storage, maintenance, deployment
- Meridian is more labor intensive re: Transportation, installation, deployment and dismantling.
- Meridian barriers have a lifetime warranty on their barriers and reusable after impact.



Conclusion



- **Vision:** VPD's vision of the Strategic Plan is to be the safest major city in Canada.
- **Goal:** An enhanced public safety measure is needed at all small to large gatherings to supplement COV deployment strategies.
- **Problem Identified:** No other police department in Canada is deploying Meridian Mobile Barriers (MVBs) to enhance public safety at large gatherings.
- **Solution:** Procurement of Meridian MVB solutions to be strategically deployed for COV events on a short-term and long-term basis to improve public safety.
- **Implementation:** Pilot program of Meridian MVBs for Granville Entertainment District (GED) long-term transition to COL and bigger events held in Vancouver.

