

TRAFFIC CONTROL DEVICES

BARRIER SYSTEMS

Any product that meets the requirements of Alberta Transportation Standard Specification for Highway Construction, Specification 5.25 Supply of W-Beam Guardrail and Posts; Specification 5.26 Supply Box Beam Guardrail and Posts; Specification 5.27 Supply of Cable Barrier and Metal Posts or Highway Maintenance Specifications, Specification 54.23 Supply and Install, Realign or Reset W-Beam Guardrail and Posts; Specification 54.24 Supply and Install Box Beam Guardrail and Posts; Specification 4.2 Concrete Curbs, Butters, Sidewalks, Medians & Traffic Islands or Specifications Bridge Construction, Section 14 Guardrail qualifies under this section.

BOX BEAM GUARDRAIL AND POSTS

Standard References

All material supplied shall refer to the following standards, specifications or publications:

- Society of Automotive Engineers
 - SAE J403 – Sept. 80 – Chemical Composition of SAE Carbon Steels
- Canadian Standards Associations
 - CAN/CSA G40.20-M87 – General Requirements for Rolled or Welded Structural Quality Steel
 - CAN/CSA G40.21-M87 – Structural Quality Steel
 - CSA W47.1-1983 – Certification of Companies for Fusion Welding of Steel Structures
 - CSA W59-M1984 – Welded Steel Construction (Metal Arc Welding)
 - CSA G164-M1981 – Hot Dip Galvanizing of Irregularly Shaped Articles
- American Society for Testing and Materials
 - ASTM A307-86a – Carbon Steel Bolts and Studs, 60,000 psi Tensile Strength
 - ASTM A325M-86 – High-Strength Bolts for Structural Steel Joints (Metric)

CABLE BARRIER AND METAL POSTS (SPECIFICATION 5.27)

THRIE BEAM GUARDRAIL

Any product that meets the requirements of Alberta Transportation Specification Amendments and Supplemental Specifications for Highway and Bridge Construction Section 14 and qualifies under this section.

W-BEAM GUARDRAIL AND POSTS (SPECIFICATION 5.25)

Plastic Posts

| PROVEN PRODUCTS | TRIAL PRODUCTS | POTENTIAL PRODUCTS |
|--|----------------|--------------------|
| Reinforced Recycled Plastic - Amity Product Code AR (Design Bulletin # 2/2001) | | |

Steel Posts (Semi-Rigid System)

Steel for posts and hardware shall conform to CSA Standard G40.21 Grade 350W or ASTM Standard A36 and shall be hot dip galvanized after fabrication conforming to ASTMA123/A123M.

| PROVEN PRODUCTS | TRIAL PRODUCTS | POTENTIAL PRODUCTS |
|-----------------|----------------|--------------------|
| | | |

Recycled Guardrail Offset Blockout

| PROVEN PRODUCTS | TRIAL PRODUCTS | POTENTIAL PRODUCTS |
|---|---|--------------------|
| King Block Caveat: not to be used on Bridge Approach Rail Transitions. Report | | |
| | Mondo Offset Block (Expiry Date: May 2019) | |

GUARDRAIL

| PROVEN PRODUCTS | TRIAL PRODUCTS | POTENTIAL PRODUCTS |
|-----------------|--|--------------------|
| | Nu Guard - 27 (Expiry Date: Apr. 2017) Nu Guard - 31 (Expiry Date: Apr. 2017) | |
| | Trinity Guardrail System (Expiry Date: June 2018) | |
| | Gregory Mini Spacer (GMS) (Expiry Date: March 2019) | |

STEEL BARRIER SYSTEMS

| PROVEN PRODUCTS | TRIAL PRODUCTS | POTENTIAL PRODUCTS |
|---|--|--|
| Vulcan Longitudinal Steel Barrier | Vulcan Gate System (Expiry Date: Mar. 2017) | Armor Guard Steel Barrier (Expiry Date: May 2018) |
| | | Barrier Guard 800 (Expiry Date: Jan 2020) |
| | | ZoneGuard (Expiry Date: May 2020) |

NON-PROPRIETARY

| PROVEN PRODUCTS | TRIAL PRODUCTS | POTENTIAL PRODUCTS |
|-----------------|----------------|---|
| | | Midwest Guardrail System (Expiry Date: Jan 2019) |

HIGH TENSION CABLE BARRIER

| PROVEN PRODUCTS | TRIAL PRODUCTS | POTENTIAL PRODUCTS |
|---|----------------|---|
| Gibraltar Cable Barrier System | | BRIFEN Wire Rope Safety Fence (Expiry Date: Mar. 2017) |
| Gibraltar (4 strand) Cable Barrier System | | Safence Cable Barrier (Expiry Date: Jan. 2019) |
| Trinity CASS Cable Barrier System REPORT Stony Trail (Feb 2012) (Oct 2011) | | |
| Trinity Cable Safety System CASS S3 REPORT Hwy 16 Vermilion (Oct 2011) REPORT Hwy 16 Vermilion (Mar 2012) | | |

HIGH TENSION CABLE BARRIER ANCHORS

| PROVEN PRODUCTS | TRIAL PRODUCTS | POTENTIAL PRODUCTS |
|-----------------|---|--------------------|
| | Gibraltar 3 or 4 Cable Steel Drawings Anchor Trail Locations | |

| | | |
|--|---|--|
| | (Expiry Date: Jan 2018) CASS & CASS S3 Cable Steel Drawings Anchor Trail Locations (Expiry Date: Jan 2018) | |
|--|---|--|

CONCRETE BARRIER

| PROVEN PRODUCTS | TRIAL PRODUCTS | POTENTIAL PRODUCTS |
|-----------------|----------------|---|
| | | J-J Hooks Anchored Precast Barrier (Expiry Date: Aug. 2017) |
| | | J-J Hooks Free Standing Precast Barrier (Expiry Date: Aug. 2017) |
| | | T-Lok F-Shape Barrier (Expiry Date: Aug. 2019) |

IMPACT ATTENUATORS (SEE HIGHWAY SAFETY DEVICES) FLEXIBLE

GUIDE POST TRAFFIC DELINEATORS

Any product that meets the requirements of Alberta Transportation Standard Specification for Highway Construction, Specification 5.28 Supply Flexible Guide Post Traffic Delineators or Highway Maintenance Specifications, Specification 54.19 Guide Posts qualifies under this section.

TRAFFIC DELINEATORS

Proprietary

| PROVEN PRODUCTS | TRIAL PRODUCTS | POTENTIAL PRODUCTS |
|---|---|--------------------|
| Delnorth International Steel-Flex Road Edge Delineator REPORT (2010) (caveat) | | |
| Roadside Delineator Guide Post | Pexco FG300 (Expiry Date: Nov. 2017) | |
| 3M Linear Delineation System Series 344/346 | | |
| Qwick Kurb | | |
| Urban Plastics Flexible Guide Post | | |
| Carsonite Roadmarker REPORT | | |

| | | |
|--|--|--|
| Carsonite CURV-FLEX REPORT | | |
| Safe-Hit Delineator Post | | |

BARRIER MOUNTED DELINEATORS

Proprietary

| PROVEN PRODUCTS | TRIAL PRODUCTS | POTENTIAL PRODUCTS |
|---|---|---|
| Steel-Flex Guardrail Marker REPORT | Flex-Straight Guardrail Reflector (Expiry Date: Sept 2018) | Safe-Hit Guardrail Post Reflector (Expiry Date: May 2017) |
| Pexco S-Flex Hinged Post-Mounted Guardrail Reflector | | A-Shape Highway Traffic Reflector (Expiry Date: Feb. 2017) |
| Davidson Traffic Control "I-Flex" Guardrail Reflector | | Barrier Traffic Reflector (Expiry Date: Apr. 2017) |
| Type FR-2 Guardrail Marker | | |
| Davidson Traffic Control "PCBM" Barrier Markers | | Circular Disc 3 ¼" (Expiry Date: Sept . 2019) |
| Davidson Traffic Control T-Flex PCBM Barrier Markers | | |

TRAFFIC MARKERS

Proprietary

| PROVEN PRODUCTS | TRIAL PRODUCTS | POTENTIAL |
|-----------------|----------------|-----------|
| | | |

TRAFFIC SIGNALS

Proprietary

| PROVEN PRODUCTS | TRIAL PRODUCTS | POTENTIAL PRODUCTS |
|--|---|--------------------|
| Leotek LED Modules | JXC 200-HF Series 8 Inch LED (Expiry Date: Oct. 2018) | |
| Alpha Traffic Intersection UPS | JXC 300-07 Series 12 Inch LED (Expiry Date: Oct. 2018) | |

PRODUCTS LIST

| | | |
|---|--|---|
| Swarco LED Modules | JXC 200 Series 12 Inch LED (Expiry Date: Oct. 2018) | Cobalt Traffic Controller (Expiry Date: Sept 2019) |
| Dialight LED Traffic and Pedestrian Signals | | ASC3 Traffic Controller (Expiry Date: Sept 2019) |
| DBL Series LED UPS | | ATC EX Nema Controller (Expiry Date: Nov 2019) |
| | | TraStar JXC Series 16 inch LEDs (Expiry Date: Nov. 2019) |

TRAFFIC DETECTION

Proprietary

| PROVEN PRODUCTS | TRIAL PRODUCTS | POTENTIAL PRODUCTS |
|---|--|---|
| Iteris Roadway Video Vehicle Detection | | Autoscope Encore Terre (Expiry Date: Apr 2020) |
| Autoscope Solo Terra Video Vehicle Detection System | Autoscope RVP2 Video Vehicle Detection System (Expiry Date: Apr. 2016) CAVEAT | |
| Smart Sensor Matrix SS-225 | | |

WORKZONE TRAFFIC CONTROL

Proprietary

| PROVEN PRODUCTS | TRIAL PRODUCTS | POTENTIAL PRODUCTS |
|---|--|--|
| Opposing Traffic Lane Divider | RoadQuake 2 Modular Temporary Portable Rumble Strip (Expiry Date: March 2017) | RoadQuake 2F Folding Temporary Portable Rumble Strip (Expiry Date: Apr. 2017) |
| ROSA | | Portable Rumble Strips (Expiry Date: April 2020) |