PLEASE PLANT

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Product 1.3: Bollards | GEO-BLD

SECTION 323300 – COMMERCIAL BOLLARDS
PART 1 – GENERAL

1.1 SUMMARY
A. Section includes: Commercial Bollards for traffic control, perimeter security, and decorative purposes.
B. Related sections:
Section 033000 – Cast-in-Place Concrete for in-ground installation.
Section 099600 – High-Performance Coatings for custom finish applications.

1.2 REFERENCES
A. ASTM B117 – Standard Practice for Operating Salt Spray (Fog) Apparatus.
B. ASTM G154 – Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus.

1.3 SUBMITTALS
A. Product Data: Submit manufacturer's product data, including installation instructions and maintenance requirements.
B. Shop Drawings: Submit shop drawings detailing dimensions, mounting options, and customizations.
C. Samples: Provide material and finish samples upon request.

1.4 QUALITY ASSURANCE
A. Manufacturer Qualifications: Minimum of 5 years' experience in manufacturing commercial bollards.
B. Pre-Installation Conference: Conduct conference on-site to coordinate installation with project requirements.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Deliver materials in original packaging, clearly labeled with product identification and manufacturer details.
B. Store in a dry, covered area to protect from damage during handling and installation.

1.6 WARRANTY
A. Provide manufacturer's standard warranty, including an 8-year structural warranty, 3 years on coatings and finishes, and 2 years on components. Consult terms and conditions for full warranty details per product type.

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PART 2 – PRODUCTS

2.1 MANUFACTURER

A. Please Plant, 200-100 Park Royal S, Vancouver, BC
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2.2 COMMERCIAL BOLLARDS

A. Product Nomenclature: GEO-BLD-[Material Code]-[Height]-[Finish Code]-[Customization]
Material Code: ST (Steel), AL (Aluminum), CP (Composite)
Height: Standard sizes 36", 42", 48" (custom available)
Finish Code: PC (Powder-Coated), AN (Anodized)
Customization: LED (Lighting), CF (Custom Finish), BR (Branding)
Example: GEO-BLD-ST-42-PC-LED (Steel Bollard, 42 inches tall, powder-coated, with embedded LED lighting)

B. Materials:
Frame: High-strength steel or aluminum with corrosion-resistant powder-coated or anodized finishes.
Optional composite materials for lightweight applications.

C. Performance:
Impact Resistance: Withstands high-impact forces, including vehicle collisions.
Corrosion Resistance: Meets or exceeds ASTM B117 standards for salt spray testing.
UV Stability: Compliant with ASTM G154 standards for prolonged sun exposure.

D. Finish Options:
Powder-coated in standard RAL colors.
Anodized finishes for additional corrosion resistance.

E. Dimensions:
Height: 36", 42", 48" (custom sizes available).
Diameter: 4"–12" (varies by application).

F. Customization Options:
Embedded LED lighting for visibility and aesthetics.
Personalized branding or engraved logos.

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PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify that installation surfaces are level, clean, and structurally sound.
B. Confirm that the installation site meets the project requirements and is free of debris.

3.2 INSTALLATION

A. Mounting Options:
Surface-Mounted: Use stainless steel hardware for secure, fixed installations.
In-Ground Mounting: Follow manufacturer's guidelines for concrete reinforcement and anchoring.
B. Installation Procedure:
Install bollards in accordance with manufacturer's written instructions and shop drawings.
Ensure proper alignment and spacing as specified in project documentation.
For LED-integrated bollards, connect wiring according to electrical codes and manufacturer's guidelines.

3.3 ADJUSTMENT AND CLEANING

A. Inspect installed bollards for proper alignment and stability.
B. Clean surfaces with non-abrasive detergents and soft cloths.
C. Perform final inspection to ensure compliance with project specifications.

3.4 MAINTENANCE

A. Inspect bollards annually for signs of damage, corrosion, or loose hardware.
B. Clean regularly with non-abrasive solutions to maintain finish integrity.