

PART 1 - GENERAL

- 1.1 REFERENCES
- .1 ASTM International
 - .1 ASTM C 700-13, Standard Specification for Vitrified Clay Pipe, Extra Strength, Standard Strength and Perforated.
 - .2 Canada Green Building Council (CaGBC)
 - .1 LEED Canada 2009 for Design and Construction, LEED Canada 2009 for Design and Construction Leadership in Energy and Environmental Design Green Building Rating System Reference Guide.
 - .3 National Fire Protection Association (NFPA)
 - .1 NFPA 91-10, Standard for Exhaust Systems for Air Conveying of Vapors, Gases, Mists, and Noncombustible Particulate Solids.
- 1.2 ACTION AND INFORMATIONAL SUBMITTALS
- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets and include product characteristics, performance criteria, physical size, finish and limitations.
 - .3 Shop Drawings:
 - .1 Submit drawings stamped and signed by professional engineer registered or licensed in Province of Newfoundland and Labrador, Canada.
 - .4 Sustainable Design Submittals:
 - .1 LEED Canada submittals: in accordance with Section 01 35 21 - LEED Requirements.
 - .2 Construction Waste Management:
 - .1 Submit project Waste Management Plan highlighting recycling and salvage requirements.
 - .2 Submit calculations on end-of-project recycling rates, salvage rates, and landfill rates demonstrating
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| 1.2 ACTION AND
INFORMATIONAL
SUBMITTALS
(Cont'd) | .4 Sustainable Design Submittals: (Cont'd) |
| | .2 Construction Waste Management: (Cont'd) |
| | .2 (Cont'd) |
| | that 75% of construction wastes were recycled or salvaged. |
| | .3 Recycled Content: |
| | .1 Submit listing of recycled content products used, including details of required percentages or recycled content materials and products, showing their costs and percentages of post-consumer and post-industrial content, and total cost of materials for project. |
| | .4 Regional Materials: submit evidence that project incorporates required percentage 30% of regional materials and products, showing their cost, distance from project to furthest site of extraction or manufacture, and total cost of materials for project. |
| 1.3 MAINTENANCE
MATERIAL SUBMITTALS | .1 Extra Materials: |
| | .1 Submit in accordance with Section 01 78 00 - Closeout Submittals. |
| | .2 Submit list of manufacturer's recommended spare parts for equipment such as bearings and seals, and addresses of suppliers, together with list of specialized tools necessary for adjusting, repairing or replacing, for placement into operating manual. |
| 1.4 DELIVERY,
STORAGE AND
HANDLING | .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions. |
| | .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address. |
| | .3 Storage and Handling Requirements: |
| | .1 Store materials off ground, indoors, in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area. |

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| 1.4 DELIVERY,
STORAGE AND
HANDLING
(Cont'd) | .3 | Storage and Handling Requirements: (Cont'd)
.2 Store and protect exhaust systems from
nicks, scratches, and blemishes.
.3 Replace defective or damaged materials
with new. |
| | .4 | Develop Construction Waste Management Plan
related to Work of this Section and in
accordance with Section 01 35 21 - LEED
Requirements. |
| | .5 | Packaging Waste Management: remove for reuse
or return of pallets, crates, padding,
banding, and packaging materials as specified
in Construction Waste Management Plan in
accordance with Section 01 74 21 -
Construction/Demolition Waste Management and
Disposal and Section 01 35 21 - LEED
Requirements. |

PART 2 - PRODUCTS

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| 2.1 DIESEL EXHAUST
SYSTEM | .1 | Provide exhaust system for new diesel
generator. Exhaust systems shall be complete
with all fittings and accessories as required
for a complete installation. |
| | .2 | Diesel generator shall be supplied and
installed by Electrical Division except as
otherwise indicated. Exhaust silencer and
flexible exhaust hose shall be supplied by
Electrical Division, and installed by this
contractor. Coordinate installation with
Electrical Division and diesel manufacturer. |
| | .3 | Maximum back pressure of the silencer,
exhaust flex and piping not to exceed the
diesel manufacturer's recommendations. |
| | .4 | Exhaust piping shall be schedule 80 steel
ASTM A53 or A106 c/w butt welded fittings. |

PART 3 - EXECUTION

- 3.1 INSTALLATION .1 Install in accordance with manufacturer's instructions and as specified.
- 3.2 DIESEL EXHAUST SYSTEMS .1 Installation to be in accordance with manufacturer's recommendations.
- .2 Coordinate exhaust pipe sizes and connection to diesels with Electrical Division.
- .3 Insulate pipe and muffler with type A-2 insulation.
- 3.3 COMMISSIONING .1 After start-up, test and adjust to suit site conditions.