

PART 1 - GENERAL

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| <u>1.1 SUMMARY</u>                 | .1 | Section Includes:<br>.1 General requirements that are common to<br>NMS sections found in Division 26 - Electrical  |
| <u>1.2 REFERENCES</u>              | .1 | Canadian Standards Association (CSA<br>International)<br>.1 CAN/CSA-C22.1-12, Canadian Electrical<br>Code, Part 1 (22th Edition), Safety Standard<br>for Electrical Installations.<br>.2 CAN3-C235-83(R2010), Preferred Voltage<br>Levels for AC Systems, 0 to 50,000 V.<br>.3 Do underground systems in accordance<br>with CSA C22.3 No.7-10, Underground Systems,<br>except where specified otherwise. |
|                                    | .2 | Newfoundland & Labrador Hydro requirements<br>and local applicable codes and regulations.  |
| <u>1.3 DESIGN<br/>REQUIREMENTS</u> | .1 | Operating voltages: to CAN3-C235.  |
|                                    | .2 | Equipment to operate satisfactorily at 60 Hz<br>within normal operating limits established by<br>above standard.<br>.1 Equipment to operate in extreme<br>operating conditions established in above<br>standard without damage to equipment.   |
| <u>1.4 SUBMITTALS</u>              | .1 | Submittals: in accordance with Section<br>01 33 00.  |
|                                    | .2 | Shop drawings:<br>.1 Submit required number of copies of<br>drawings and product data to inspection<br>authorities.<br>.2 If changes are required, notify<br>Departmental Representative of these changes<br>before they are made.   |
|                                    | .3 | Quality Control: in accordance with Section<br>01 45 00.<br>.1 Provide CSA certified equipment and<br>material.<br>.2 Where CSA certified equipment and<br>material is not available, submit such<br>equipment and material to authority having  |

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| 1.4 SUBMITTALS<br>(Cont'd)               | .3 | Quality Control:(Cont'd)<br>.2 (Cont'd)<br>jurisdiction inspection authorities for<br>special approval before delivery to site.<br>.3 Submit test results of installed<br>electrical systems and instrumentation.<br>.4 Permits and fees: in accordance with<br>General Conditions of contract. Pay associated<br>fees. Departmental Representative will provide<br>drawings and specifications required by<br>Electrical Inspection Department and Supply<br>Authority at no cost.<br>.5 Submit certificate of acceptance from<br>Electrical Inspection Department upon<br>completion of Work to Departmental<br>Representative.                      |
| 1.5 QUALITY<br>ASSURANCE                 | .1 | Quality Assurance: in accordance with Section<br>01 45 00.   |
|  | .2 | Qualifications: electrical Work to be carried<br>out by qualified, licensed electricians who<br>hold valid Master Electrical Contractor<br>license or apprentices in accordance with<br>authorities having jurisdiction or as per the<br>conditions of Provincial Act respecting<br>manpower vocational training and<br>qualification.<br>.1 Employees registered in provincial<br>apprentices program: permitted, under direct<br>supervision of qualified licensed electrician,<br>to perform specific tasks.<br>.2 Permitted activities: determined based<br>on training level attained and demonstration<br>of ability to perform specific duties. |
|  | .3 | Site Meetings:<br>.1 In accordance with Section 01 32 16.  |
|  | .4 | Health and Safety Requirements: do<br>construction occupational health and safety in<br>accordance with Section 01 35 29.  |
| 1.6 DELIVERY,<br>STORAGE AND<br>HANDLING | .1 | Material Delivery Schedule: provide<br>Departmental Representative with schedule<br>within 2 weeks after award of Contract.  |
|  | .2 | Construction/Demolition Waste Management and<br>Disposal: separate waste materials for reuse<br>and recycling in accordance.   |
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- 1.7 SYSTEM STARTUP .1 Instruct Departmental Representative and operating personnel in operation, care and maintenance of systems, system equipment and components.

PART 2 - PRODUCTS

- 2.1 MATERIALS AND EQUIPMENT .1 Provide material and equipment in accordance with Section 01 61 00.
- .2 Material and equipment to be CSA certified. Where CSA certified material and equipment is are not available, obtain special approval from authority having jurisdiction inspection authorities before delivery to site and submit such approval as described in PART 1 - Submittals.
- .3 Factory assemble control panels and component assemblies.

- 2.2 WARNING SIGNS .1 Warning Signs: in accordance with requirements of authority having jurisdiction, inspection authorities and Departmental Representative.
- .2 Decal signs, minimum size 175 x 250 mm.

- 2.3 WIRING TERMINATIONS .1 Ensure lugs, terminals, screws used for termination of wiring are suitable for either copper or aluminum conductors.

- 2.4 EQUIPMENT IDENTIFICATION .1 Identify electrical equipment with nameplates and labels as follows:
- .1 Nameplates: lamicaid 3 mm thick plastic engraving sheet , black face, white core, lettering accurately aligned and engraved into core, mechanically attached with self tapping screws.
- .2 Sizes as follows:
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#### 2.4 EQUIPMENT IDENTIFICATION (Cont'd)

- .1 (Cont'd)  
.2 Sizes as follows:(Cont'd)

Size 1	10 x 50 mm	1 line	3 mm high letters
Size 2	12 x 70 mm	1 line	5 mm high letters
Size 3	12 x 70 mm	2 lines	3 mm high letters
Size 4	20 x 90 mm	1 line	8 mm high letters
Size 5	20 x 90 mm	2 lines	5 mm high letters
Size 6	25 x 100 mm	1 line	12 mm high letters
Size 7	25 x 100 mm	2 lines	6 mm high letters

- .2 Labels: embossed plastic labels with 6 mm high letters unless specified otherwise.
- .3 Wording on nameplates and labels to be approved by Departmental Representative prior to manufacture.
- .4 Allow for minimum of twenty-five (25) letters per nameplate and label.
- .5 Nameplates for terminal cabinets and junction boxes to indicate system and/or voltage characteristics.

#### 2.5 WIRING IDENTIFICATION

- .1 Identify wiring with permanent indelible identifying markings, numbered or coloured plastic tapes, on both ends of phase conductors of feeders and branch circuit wiring.
- .2 Maintain colour coding throughout.
- .3 Colour coding: to CAN/CSA-C22.1.

#### 2.6 CONDUIT AND CABLE IDENTIFICATION

- .1 Colour code conduits and boxes.
- .2 Colours: 25 mm wide prime colour and 20 mm wide auxiliary colour.

	Prime	Auxiliary
up to 250 V	Yellow	
up to 600 V	Yellow	Green

2.6 CONDUIT AND CABLE IDENTIFICATION (Cont'd)	.2	Colours:(Cont'd)
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up to 5 kV	Yellow	Blue
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2.7 FINISHES	.1	Shop finish metal enclosure surfaces by application of rust resistant primer inside and outside, and at least two coats of finish enamel.
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### PART 3 - EXECUTION

3.1 INSTALLATION	.1	Do complete installation in accordance with CAN/CSA-C22.1 except where specified otherwise.
	.2	Do underground systems in accordance with CAN/CSA-C22.3 No.1 except where specified otherwise.

3.2 NAMEPLATES AND LABELS	.1	Ensure manufacturer's nameplates, CSA labels and identification nameplates are visible and legible after equipment is installed.
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3.3 MOUNTING HEIGHTS	.1	Mounting height of equipment is from finished floor to centreline of equipment unless specified or indicated otherwise.
	.2	If mounting height of equipment is not specified or indicated, verify before proceeding with installation.

3.4 FIELD QUALITY CONTROL	.1	Conduct following tests in accordance with Section 01 45 00:
	.1	Power distribution including system voltage and grounding.
	.2	Circuits originating from branch distribution panels and regulators.
	.3	Airfield lighting and its control.

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- 3.4 FIELD QUALITY CONTROL  
(Cont'd)
- .1 (Cont'd)
  - .4 Insulation resistance testing:
    - .1 Megger circuits, feeders and equipment up to 350 V with a 500 V instrument.
    - .2 Megger 5000 V circuits, feeders and equipment with a 5000 V instrument.
    - .3 Check resistance to ground before energizing.
  - .2 Carry out tests in presence of Departmental Representative.
  - .3 Provide instruments, meters, equipment and personnel required to conduct tests during and at conclusion of project.
- 3.5 CLEANING
- .1 Clean and touch up surfaces of shop-painted equipment scratched or marred during shipment or installation, to match original paint.
  - .2 Clean and prime exposed non-galvanized hangers, racks and fastenings to prevent rusting.

PART 1 - GENERAL

- 1.1 PRODUCT DATA .1 Provide product data in accordance with  
Section 01 33 00.

PART 2 - PRODUCTS

- 2.1 BUILDING WIRES .1 Conductors: stranded for 10 AWG and larger.  
Minimum size: 12 AWG.
- .2 Copper conductors: size as indicated, with  
1000 V insulation of cross-linked  
thermosetting polyethylene material rated  
RWU90 XLPE.

- 2.2 TECK 90 CABLE .1 Cable: in accordance with Section 26 05 00.
- .2 Conductors:  
.1 Grounding conductor: copper as  
indicated.  
.2 Circuit conductors: copper, size as  
indicated.
- .3 Insulation:  
.1 Cross-linked polyethylene XLPE.  
.2 Rating: 600 V.
- .4 Inner jacket: polyvinyl chloride material.
- .5 Armour: interlocking galvanized steel.
- .6 Overall covering: thermoplastic polyvinyl  
chloride.
- .7 Connectors:  
.1 Watertight, approved for TECK cable.
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### PART 3 - EXECUTION

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| <u>3.1 FIELD QUALITY<br/>CONTROL</u>                        | .1 | Perform tests in accordance with Section 26 05 00.  |
|   | .2 | Perform tests using method appropriate to site conditions and to approval of Departmental Representative and local authority having jurisdiction over installation. |
|   | .3 | Perform tests before energizing electrical system.  |
| <u>3.2 GENERAL CABLE<br/>INSTALLATION</u>                   | .1 | Install cable in ducts and trenches in accordance with Section 26 05 43.01.   |
|   | .2 | Cable Colour Coding: to Section 26 05 00.   |
|   | .3 | Lace or clip groups of feeder cables at distribution centres, pull boxes, and termination points.   |
| <u>3.3 INSTALLATION OF<br/>BUILDING WIRES</u>               | .1 | Install wiring as follows:<br>.1 In conduit systems.<br>.2 In underground ducts.  |
| <u>3.4 INSTALLATION OF<br/>TECK90 CABLE (0<br/>-1000 V)</u> | .1 | Install cable in trenches.  |



## PART 1 - GENERAL

<u>1.1 REFERENCES</u>	.1	Canadian Standards Association (CSA) .1 CSA C22.2 No.0.4-M1982(R1993), Bonding and Grounding of Electrical Equipment (Protective Grounding).
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<u>1.2 WASTE MANAGEMENT AND DISPOSAL</u>	.1	Separate and recycle waste materials in accordance.
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## PART 2 - PRODUCTS

<u>2.1 MATERIALS</u>	.1	Rod electrodes: copper clad steel, 19 mm dia by 3 m long.
	.2	Conductors: pvc insulated coloured green, stranded, soft annealed copper wire No. 6 AWG for grounding.
	.3	Accessories: non-corroding, necessary for complete grounding system, type, size material as indicated, including: .1 Grounding and bonding bushings, .2 Protective type clamps, .3 Bolted type conductor connectors, .4 Thermit welded type conductor connectors, .5 Bonding jumpers, straps, .6 Pressure wire connectors.
	.4	Wire connectors and terminations.

## PART 3 - EXECUTION

<u>3.1 GROUNDING INSTALLATION</u>	.1	Install continuous grounding system including, electrodes, conductors, connectors and accessories in accordance with CSA C22.2 No.0.4 and requirements of local authority having jurisdiction.
	.2	Install connectors in accordance with manufacturer's instructions.

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3.1 GROUNDING  
INSTALLATION  
(Cont'd)

- .3 Protect exposed grounding conductors from mechanical injury.
- .4 Make buried connections, and connections to electrodes, structural steel work, using copper welding by thermit process.
- .5 Use mechanical connectors for grounding connections to equipment provided with lugs.

3.2 ELECTRODE  
INSTALLATION

- .1 Install ground rod electrodes. Make grounding connections to equipment.
- .2 Make special provision for installing electrodes that will give acceptable resistance to ground value, where rock or sand terrain prevails.

3.3 EQUIPMENT  
GROUNDING

- .1 Install grounding connections as indicated to equipment including: PAPI's, Windcones and runway guard lights.

3.4 FIELD QUALITY  
CONTROL

- .1 Perform tests in accordance with Section 26 05 00.
- .2 Perform earth resistance tests using method appropriate to site conditions and to approval of Departmental Representative and local authority having jurisdiction.
- .3 Perform test before energizing electrical system.

PART 1 - GENERAL

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| <u>1.1 ACTION AND<br/>INFORMATIONAL<br/>SUBMITTALS</u> | .1 | Submit in accordance with Section 01 33 00.  |
|  | .2 | Product Data:<br>.1 Submit manufacturer's instructions,<br>printed product literature and data sheets for<br>grounding equipment and include product<br>characteristics, performance criteria,<br>physical size, finish and limitations. |
| <u>1.2 CLOSEOUT<br/>SUBMITTALS</u>                     | .1 | Submit in accordance with Section 01 78 00.  |
|  | .2 | Operation and Maintenance Data: submit<br>operation and maintenance data for grounding<br>equipment for incorporation into manual.   |
| <u>1.3 DELIVERY,<br/>STORAGE AND<br/>HANDLING</u>      | .1 | Deliver, store and handle materials in<br>accordance with Section 01 61 00 and with<br>manufacturer's written instructions.  |

PART 2 - PRODUCTS

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| <u>2.1 EQUIPMENT</u> | .1 | Rod electrodes: copper clad steel 19 mm<br>diameter by minimum 3 m long.  |
|                      | .2 | Grounding conductors: bare stranded copper,<br>soft annealed, size as indicated.  |
|                      | .3 | Insulated grounding conductors: green, copper<br>conductors, size as indicated.   |
|                      | .4 | Non-corroding accessories necessary for<br>grounding system, type, size, material as<br>indicated, including but not necessarily<br>limited to:<br>.1 Grounding and bonding bushings.<br>.2 Protective type clamps.<br>.3 Bolted type conductor connectors.<br>.4 Thermit welded type conductor<br>connectors.<br>.5 Bonding jumpers, straps.<br>.6 Pressure wire connectors. |
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### PART 3 - EXECUTION

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| <u>3.1 INSTALLATION<br/>GENERAL</u>         | .1 | Install complete permanent, continuous grounding system including, electrodes, conductors, connectors, accessories.   |
|   | .2 | Install connectors in accordance with manufacturer's instructions.  |
|   | .3 | Protect exposed grounding conductors from mechanical injury.  |
|   | .4 | Make buried connections, and connections to electrodes, using copper welding by thermit process.  |
|   | .5 | Use mechanical connectors for grounding connections to equipment provided with lugs.  |
|   | .6 | Install separate ground conductor to outdoor lighting standards.  |
|   | .7 | Bond single conductor, metallic armoured cables to cabinet at supply end.   |
| <u>3.2 ELECTRODES</u>                       | .1 | Install rod, electrodes and make grounding connections as indicated.  |
|   | .2 | Bond separate, multiple electrodes together.  |
|   | .3 | Make special provision for installing electrodes that will give acceptable resistance to ground value where rock or sand terrain prevails. Ground as indicated.                   |
| <u>3.3 SYSTEM AND<br/>CIRCUIT GROUNDING</u> | .1 | Install system and circuit grounding connections to neutral, secondary 240 V system.  |
| <u>3.4 EQUIPMENT<br/>GROUNDING</u>          | .1 | Install grounding connections to typical equipment included in, but not necessarily limited to following list: Service equipment, transformers, control panels, outdoor lighting. |
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- 3.5 FIELD QUALITY CONTROL
- .1 Perform tests in accordance with Section 26 05 00.
  - .2 Perform ground continuity and resistance tests using method appropriate to site conditions and to approval of Departmental Representative and local authority having jurisdiction over installation.
  - .3 Perform tests before energizing electrical system.
  - .4 Disconnect ground fault indicator during tests.
- 3.6 CLEANING
- .1 Progress Cleaning: clean in accordance with Section 01 74 00.
    - .1 Leave Work area clean at end of each day.
  - .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 00.
  - .3 Waste Management: separate waste materials for reuse and recycling.
    - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

PART 1 - GENERAL

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| <u>1.1 RELATED<br/>SECTIONS</u>                  | .1 | Section 31 23 33 - Excavating, Trenching and Backfilling.   |
|  | .2 | Section 26 05 00 - Common Work Results - Electrical.  |
| <u>1.2 REFERENCES</u>                            | .1 | Canadian Standards Association, (CSA International)   |
|  | .2 | Insulated Cable Engineers Association, Inc. (ICEA)  |
| <u>1.3 WASTE<br/>MANAGEMENT AND<br/>DISPOSAL</u> | .1 | Separate and recycle waste materials.   |
|  | .2 | Remove from site and dispose of all packaging materials at appropriate recycling facilities.  |
|  | .3 | Collect and separate for disposal paper, plastic, polystyrene, corrugated cardboard, packaging material in appropriate on-site bins for recycling.                          |
|  | .4 | Unused sealant material must not be disposed of into sewer system, into streams, lakes, onto ground or in other location where it will pose health or environmental hazard. |

PART 2 - PRODUCTS      Not Used

PART 3 - EXECUTION

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| <u>3.1 CABLE<br/>INSTALLATION IN<br/>DUCTS</u> | .1 | Install cables as indicated in ducts.<br>.1 Do not pull spliced cables inside ducts.        |
|  | .2 | Install multiple cables in duct simultaneously.   |
|  | .3 | Use CSA approved lubricants of type compatible with cable jacket to reduce pulling tension. |
|  | .4 | After installation of cables, seal duct ends with duct sealing compound.                    |

- 3.2 FIELD QUALITY CONTROL
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- .1 Perform tests in accordance with Section 26 05 00.
  - .2 Perform tests using qualified personnel. Provide necessary instruments and equipment.
  - .3 Check each feeder for continuity, short circuits and grounds. Ensure resistance to ground of circuits is not less than 50 megohms.
  - .4 Acceptance tests.
    - .1 After installing cable but before splicing and terminating, perform insulation resistance test with 1000 V megger on each 600 V cable.
    - .2 After installing cable but before splicing and terminating, perform insulation resistance test with 5000 V megger on each 5 KV airfield lighting cable.
    - .3 Check insulation resistance after each splice and/or termination to ensure that cable system is ready for energizing.
  - .5 Provide Departmental Representative with list of test results showing location at which each test was made, circuit tested and result of each test.
  - .6 Remove and replace entire length of cable if cable fails to meet any of test criteria.

PART 1 - GENERAL

- 1.1 REFERENCES .1 CSA International
- .1 CSA C22.2 No. 5-09, Moulded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures (Tri-national standard with UL 489, tenth edition, and the second edition of NMX-J-266-ANCE).
  - .2 CSA C9-M1981(R2009), Dry Type Transformers.
  - .3 CSA C9.1-M1981(R2001), Guide for Loading Dry-Type Distribution and Power Transformers.
  - .4 CAN/CSA-C22.2 No.47-M90(R2007), Air-Cooled Transformers (Dry Type).
- 1.2 ACTION AND INFORMATIONAL SUBMITTALS .1 Submit in accordance with Section 01 33 00.
- .2 Product Data:
- .1 Submit manufacturer's instructions, printed product literature and data sheets for aluminum tower assembly and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Shop Drawings:
- .1 Submit drawings.
  - .2 Indicate on drawings:
    - .1 Anchoring method and dimensioned foundation template.
    - .2 Dimensioned cable entry locations.
    - .3 Dimensioned cable termination and height.
  - .3 Identify internal and external component layout on assembly drawing.
  - .4 Submit co-ordination curves for primary circuit breaker.
- 1.3 CLOSEOUT SUBMITTALS .1 Submit in accordance with Section 01 78 00.
- .2 Operation and Maintenance Data: submit operation and maintenance data for incorporation into manual.
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| <u>1.4 DELIVERY,<br/>STORAGE AND<br/>HANDLING</u> | .1 | Deliver, store and handle materials in accordance with Section 01 61 00 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:<br>.1 Store materials indoors in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.<br>.2 Store and protect transformers from nicks, scratches, and blemishes.<br>.3 Replace defective or damaged materials with new. |

## PART 2 - PRODUCTS

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| <u>2.1 MATERIALS</u> | .1 | Dry type transformers: to CSA C9.1.                 |
|                      | .2 | Primary (600 V) circuit breaker: to CSA C22.2 No.5. |

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| <u>2.2 EQUIPMENT</u> | .1 | Airfield outdoor distribution dry type transformer units complete with primary and secondary cable compartments, main circuit breaker, secondary load centre with main circuit breakers and branch breakers and accessories to form complete factory assembled, self contained, steel fabricated unit. |
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| <u>2.3 ENCLOSURE</u> | .1 | Substation unit housing: sheet metal, (12 gauge) steel.                                       |
|                      | .2 | Top and back of housing removable.  |
|                      | .3 | Hinged front door with cabinet closing handle and complete with ice-breaker padlock and keys. |
|                      | .4 | Solid insulating barrier between primary/secondary and transformer compartments.              |
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2.4 FRONT  
COMPARTMENT -  
PRIMARY SECTION .1 2-pole main circuit breaker.

2.5 TRANSFORMER  
COMPARTMENT .1 Transformer, dry type:  
.1 Primary voltage: 600 V, 60Hz, single  
phase.  
.2 Secondary voltage: 120/240 V, single  
phase.  
.3 Capacity: 5 kVA.  
.4 Insulation: Class105.  
.5 Temperature rise: 80 degrees Celsius.  
.6 Impedance: manufacturers standard.  
.7 Four 2.5% voltage taps 2-FCAN, 2-FCBN.

2.6 FRONT  
COMPARTMENT -  
SECONDARY SECTION .1 Load centre with main circuit breaker and  
branch breakers comprising:  
.1 30 2 pole main breaker.  
.2 15 A 2 pole breakers as indicated.

2.7 GROUNDING .1 Ground wire 1/c # 4 AWG bare copper.  
.2 Connectors for ground wire.

2.8 EQUIPMENT  
IDENTIFICATION .1 Refer to Section 26 05 00.  
.2 Nameplate showing information: to CSA C9.

2.9 WARNING SIGNS .1 Warning signs in accordance with Section  
26 05 00.

2.10 FINISHES .1 Refer to Section 26 05 00.  
.1 Unit exterior green.  
.2 Unit interior white.

2.11 SOURCE QUALITY  
CONTROL .1 Complete transformer unit, including switches  
and protective equipment to satisfactorily  
withstand without damage or danger, the  
effects of maximum fault capacity imposed.

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### PART 3 - EXECUTION

- 3.1 EXAMINATION .1 Verification of Conditions: verify conditions of substrates previously installed under other Sections or Contracts are acceptable for product installation in accordance with manufacturer's written instructions.
- .1 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
- .2 Check factory-made connections for mechanical security and electrical continuity.
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- 3.2 INSTALLATION .1 Set and secure transformer unit in place, rigid plumb and square.
- .2 Make connections as indicated.
- .3 Connect transformer unit ground conductors to ground-rod system as indicated.
- .4 Set taps to produce rated secondary voltage at no-load.
- .5 Perform insulation-resistance test.
- .6 Apply voltage to unit and the load to the transformer.
- .7 Measure for proper voltage.
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- 3.3 CLEANING .1 Progress Cleaning: clean in accordance with Section 01 74 00.
- .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 00.
- .3 Waste Management: separate waste materials for reuse and recycling.
- .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.