PART 1 ADDENDUM

1.1 TITLE

.1 This Addendum shall be known as:

Addendum No. 5
MUN-09 Feeder Cable Replacement & Pad Mount Switchgear
TFM-048-25/TU-509-23

1.2 PRECEDENCE

.1 This amendment to the bid documents is effective immediately.

.2 This Addendum shall form an integral part of the original bid documents and is to be read in conjunction therewith.

.3 The Addendum shall take precedence over previously issued bid documents with which it may prove to be at variance.

1.3 GENERAL

.1 The General Conditions shall govern all phases of the Work covered by this Addendum.

.2 Bidders are advised to acknowledge receipt of this addendum in their bid submission.

1.4 CHANGES IN GENERAL

.1 Not used.

1.5 CHANGES TO SPECIFICATIONS

.1 Reference Specification 26 13 20 – Pad Mounted SF6 Switchgear

.1 Add Clause 2.1.20 Standard of Acceptance: S&C Vista

1.6 QUESTIONS

.1 **Question:** Request for approval of alternate switchgear – Schneider Premset series.

.1 **Answer:** The proposed alternate is compliant and suitable for approval as an equivalent to the specified S&C Vista switchgear for this project. Note that the contractor is responsible for any resulting design or installation modifications required as a result of the use of an alternate product. Specific to the proposed switchgear, for example, an external DC power source is required for this switchgear to operate. All supporting infrastructure for a complete operational system will be the responsibility of the contractor, including any design verification.

.2 **Question:** Could you please clarify if 15KV aluminum TECK can be utilized in lieu of copper feeders identified in feeder schedule.

Spec: 2.2.3 Copper or aluminum circuit conductors, size and number as indicated on drawings.

Drawing indicates the usage of copper, will properly sized aluminum cables be acceptable?

.1 **Answer:** Aluminum conductors of equivalent ampacity are acceptable.

END OF ADDENDUM NO. 5

PART 1 ADDENDUM

1.1 TITLE

.1 This Addendum shall be known as:

Addendum No. 4
MUN-09 Feeder Cable Replacement & Pad Mount Switchgear
TU-509-23

1.2 PRECEDENCE

.1 This amendment to the bid documents is effective immediately.

.2 This Addendum shall form an integral part of the original bid documents and is to be read in conjunction therewith.

.3 The Addendum shall take precedence over previously issued bid documents with which it may prove to be at variance.

1.3 GENERAL

.1 The General Conditions shall govern all phases of the Work covered by this Addendum.

.2 Bidders are advised to acknowledge receipt of this addendum in their bid submission.

1.4 CHANGES IN GENERAL

.1 New tender closing date: December 18, 2025 @ 3:30 PM. New access code is 2770 573 3674.

1.5 CHANGES TO SPECIFICATIONS

.1 Reference Specification 26 05 14 – Power Cables 1001-15000V

.1 Update the storage location for the owner supplied cabling from South Campus Boiler Room to Engineering Building ground floor Mechanical Room EN1036.

1.6 CHANGES TO DRAWINGS

.1 Reference Drawing E101 – Partial site plan, Demolition North - Revised

.2 Reference Drawing E107 – Partial floor plan - Revised

.3 Reference Drawing E601 - Partial Electrical Riser Diagram, Demolition - Revised

.4 Reference Drawing E602 – Partial Electrical Riser Diagram – Revised

.1 Update Feeder Types 17 and 38 to indicate a 15kV rating.

1.7 QUESTIONS

.1 **Question:** As per drawing E602, cable number 17, 17-T and 38, calls for a #3/0 copper grounding conductor. Is the #3/0 copper ground conductor required for each run of HV cable or, is one run of #3/0 ground conductor required for two runs of HV cable?

.1 **Answer:** One run of ground cable is required for the parallel runs of 15kV cabling.

.2 **Question:** The specification calls for schedule 80 piping for bollards while the drawing states standard piping. Please confirm standard is acceptable.

.1 Answer: Standard Schedule 40 pipe is acceptable.

.3 **Question:** The specification calls for schedule 80, 8" diameter bollards for the bolt-on type bollard, but the drawings show 6" piping. Please confirm 6" is acceptable.

.1 Answer: 6” is acceptable.

.4 **Question:** The dimensions for the baseplates for the bolt-on type bollards are not defined on the drawings. Please confirm.

.1 Answer: Minimum baseplate dimension shall be 300mm x 300mm based on a 150mm bollard.

.5 **Question:** The specification states bollards need to be galvanized and powder coated. To powder coat a galvanized bollard you would need to remove the galvanized coating. Please confirm powder coated is acceptable.

.1 Answer: Two layers of powder coat paint on standard steel is acceptable.

END OF ADDENDUM NO. 4

EXISTING UTILITY TUNNEL TO NRC BUILDING

EXISTING FEEDER MUN-09E FROM NRC SWITCHGEAR TO ENGINEERING BUILDING SWITCHGEAR TO PARTIALLY REMAIN. (PORTION OF CABLE FROM ENGINEERING ELECTRICAL ROOM EN1037H TO AREA OF NEW SWITCHGEAR TO BE REMOVED). SEE REVISED RISER DIAGRAM AND REVISED PARTIAL SITE PLAN. (1)

1 E106

EXISTING ELECTRICAL ROOM EN1037H (SUBSTATION NO. 1) (1)

NRC - INSTITUTE for OCEAN TECHNOLOGY

ENGINEERING AND APPLIED SCIENCES

EXISTING POWER AND COMMS MANHOLE

1 E108

KERWIN PLACE

EXISTING MUN-09 FEEDERS ENTERING ENGINEERING ELECTRICAL ROOM EN1037H (SUBSTATION NO. 1), TO BE REMOVED: REFER TO RISER DIAGRAM FOR CABLE DETAILS: (1)
- MUN-09E FEEDER FROM MANHOLE TO ENGINEERING BUILDING SWITCHGEAR.
- MUN-09A FEEDER FROM EARTH SCIENCES SWITCHGEAR TO ENGINEERING BUILDING SWITCHGEAR.

3 E108

MOTORCYCLE PARKING LOT

BUSINESS ADMINISTRATION

TRANSFORMER T

EXISTING FEEDER MUN-09A TO BE REMOVED

3 E108

EXISTING UTILITY TUNNEL

ARCTIC AVENUE

EXISTING UTILITY TUNNEL

EXISTING PORTION OF MUN-09 FEEDER TO BE REMOVED

NORTH CAMPUS SWITCHING STATION (NCSS)

EXISTING FEEDER MUN-09A TO BE REMOVED

EXISTING ELECTRICAL ROOM 1000B

EXISTING FEEDER MUN-09D TO REMAIN

EARTH SCIENCES (CERR)

EXISTING FEEDER MUN-09C TO REMAIN

2 E106

UNIVERSITY CENTRE

MORRISSEY DRIVE

EXISTING PORTION OF MUN-09 FEEDER TO BE REMOVED

3 E108

EXISTING UTILITY TUNNEL

Food

IRWIN'S ROAD

SEE PLAN E102 FOR CONTINUATION

NOTES:

1. NOT ALL MEDIUM / LOW VOLTAGE CABLING SHOWN FOR CLARITY.
2. EXISTING CABLING SHOWN AS SINGLE RUNS FOR CLARITY, REFER TO RISER DIAGRAM FOR CABLE SIZING AND # OF RUNS).
3. VERTICAL SPACING BETWEEN CABLE TRAYS VARIES ENTIRE LENGTH OF TUNNEL. CONTRACTOR TO ADJUST CABLE TRAY HEIGHTS AS REQUIRED TO DEMOLISH AND INSTALL NEW CABLES.

Legend

Notes

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Permit-Seal

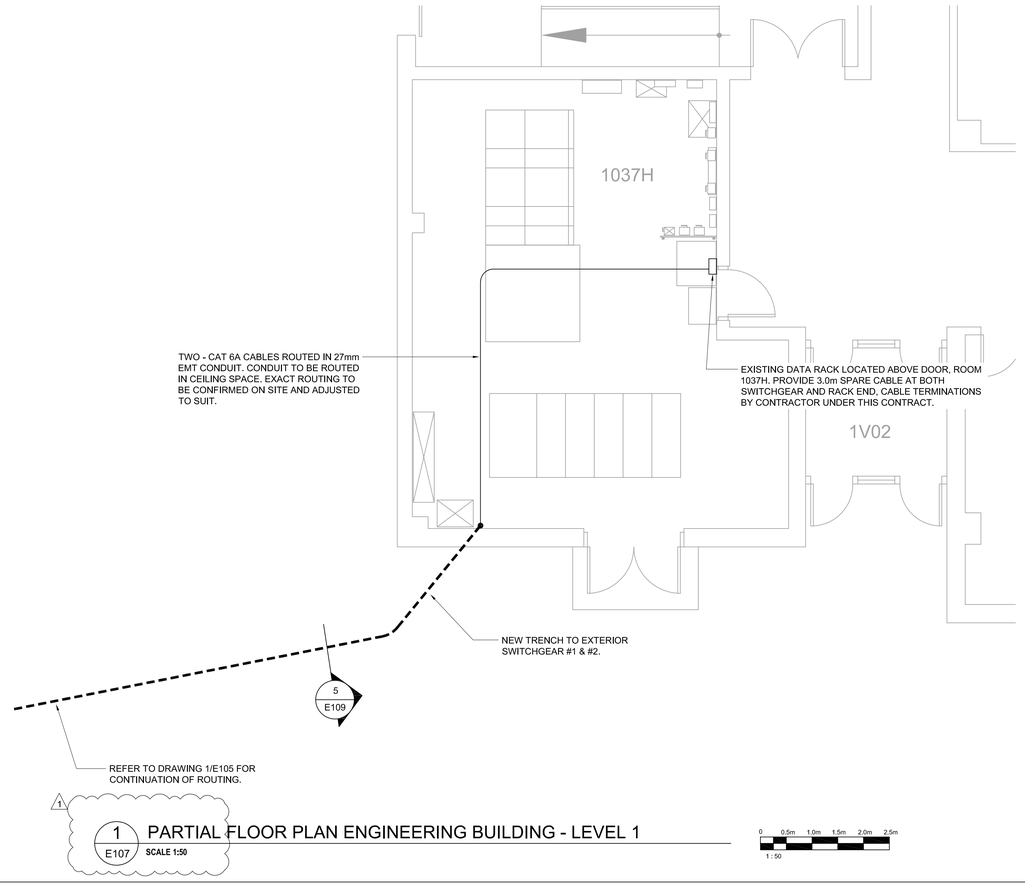
Client/Project

MEMORIAL UNIVERSITY
Department of Facilities Management

MUN-09 FEEDER CABLE REPLACEMENT & PAD MOUNT SWITCHGEAR (TU-509-23)
St. John's, NL Canada

Title
PARTIAL SITE PLAN - DEMOLITION NORTH

Project No. 133412009
Scale 1:350
Drawing No. E101
Revision 1



1
E107 PARTIAL FLOOR PLAN ENGINEERING BUILDING - LEVEL 1

SCALE 1:50

0 0.5m 1.0m 1.5m 2.0m 2.5m

1 : 50

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Client/Project

MEMORIAL UNIVERSITY

Department of Facilities Management

MUN-09 FEEDER CABLE REPLACEMENT
& PAD MOUNT SWITCHGEAR
(TU-509-23)
St. John's, NL Canada

Title
PARTIAL FLOOR PLAN

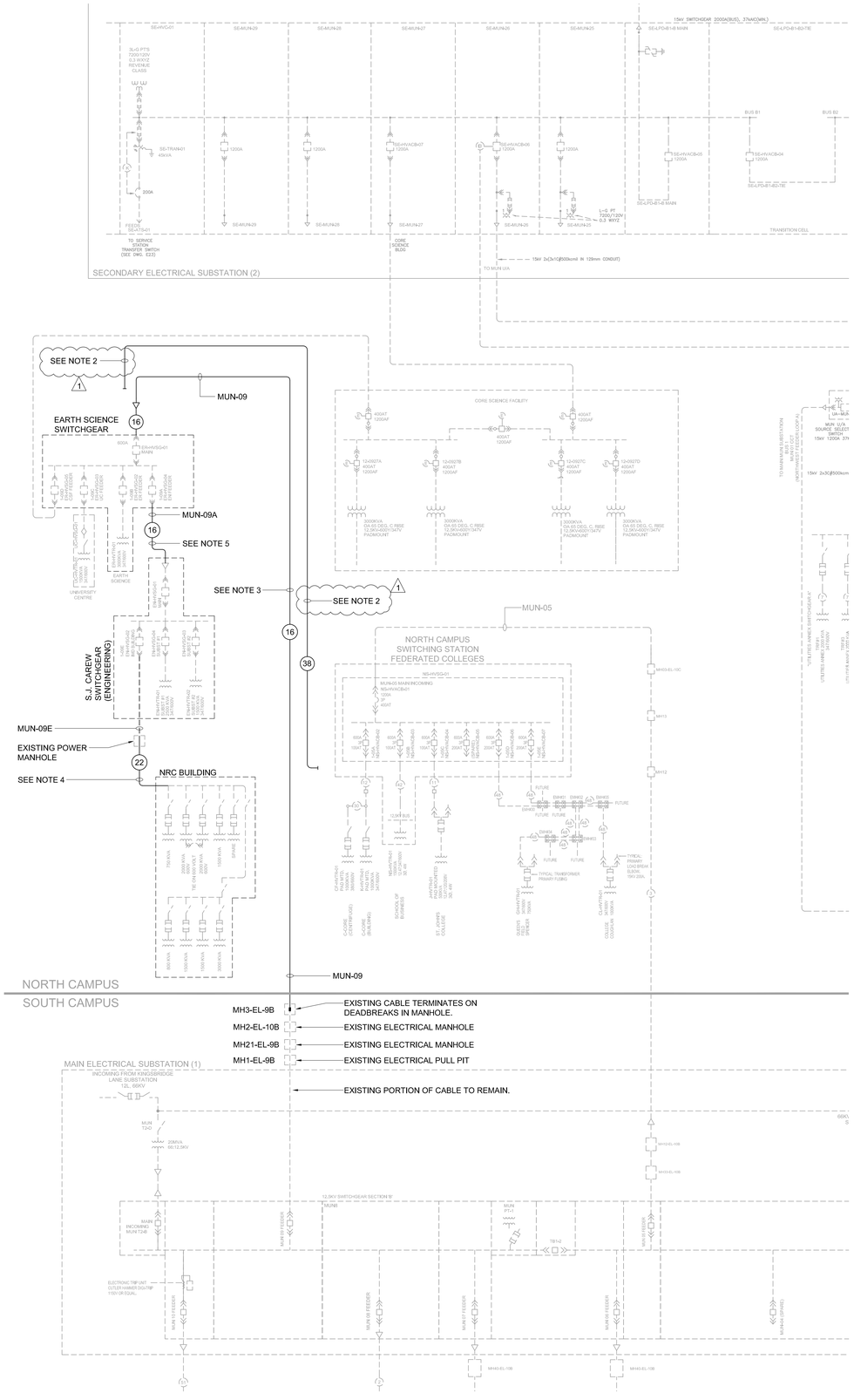
Project No.	Scale	
133412009	AS SHOWN	
Drawing No.		Revision
E107		1

EXISTING FEEDER SCHEDULE

TAG	No.	SIZE AND TYPE	RACEWAY	ROUTING	GROUND	AMPS
MUN 09	16	2 x 3C 350 kcmil AL TECK CABLE	CABLE TRAY/CONDUIT	MANHOLE MH3-EL-9B TO EARTH SCIENCE SWITCHGEAR	#3/0 CU CONDUCTOR	520
MUN 09-A	16	2 x 3C 350 kcmil AL TECK CABLE	CABLE TRAY/CONDUIT	EARTH SCIENCE SWITCHGEAR TO ENGINEERING BUILDING	#3/0 CU CONDUCTOR	520
MUN 09-E	22	2 RUNS OF 3 NO. 500kcmil 15KV NU-AL TECK CABLE	CABLE TRAY/CONDUIT	ENGINEERING BUILDING TO NRC	---	
MUN-TEMP	38	2 RUNS OF 3C 350kcmil ALUMINUM TECK CABLE	TRAY	CONDUITS IN TUNNEL TO EARTH SCIENCES BUILDING	---	---

NOTES:

1. SHADING INDIGATES EXISTING TO REMAIN UNLESS OTHERWISE INDICATED.
2. EXISTING SPARE // RUNS OF TECK CABLE ROUTED IN TUNNEL CABLE TRAY, TO REMAIN FOR FUTURE USE.
3. EXISTING // RUNS OF TECK CABLE ROUTED IN TUNNEL FROM DEADBREAKS IN MANHOLE MH3-EL-9B TO EARTH SCIENCES MAIN ELECTRICAL ROOM TO BE REMOVED.
4. EXISTING POWER FEED FROM ENGINEERING BUILDING TO NRC BUILDING TO BE PARTIALLY REMOVED. DISCONNECT CABLE FROM ENGINEERING BUILDING SWITCHGEAR, PULL CABLES BACK THROUGH U/G DUCTBANK TO EXISTING POWER MANHOLE ADJACENT TO BUILDING. COIL CABLES FOR CONNECTION NEW EXTERIOR SWITCHGEAR, REFER TO REVISED RISER. PORTION OF CABLE FROM EXISTING POWER MANHOLE TO NRC SWITCHGEAR TO REMAIN IN PLACE.
5. EXISTING POWER FEED FROM EARTH SCIENCES SWITCHGEAR TO ENGINEERING BUILDING SWITCHGEAR TO BE REMOVED.



1 PARTIAL ELECTRICAL RISER DIAGRAM - DEMOLITION
E601 N.T.S.

Stantec

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Legend

Notes

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Permit-Seal

Client/Project

MEMORIAL UNIVERSITY
Department of Facilities Management

MUN-09 FEEDER CABLE REPLACEMENT & PAD MOUNT SWITCHGEAR (TU-509-23)
St. John's, NL Canada

Title

PARTIAL ELECTRICAL RISER DIAGRAM - DEMOLITION

Project No.	Scale
133412009	N.T.S.

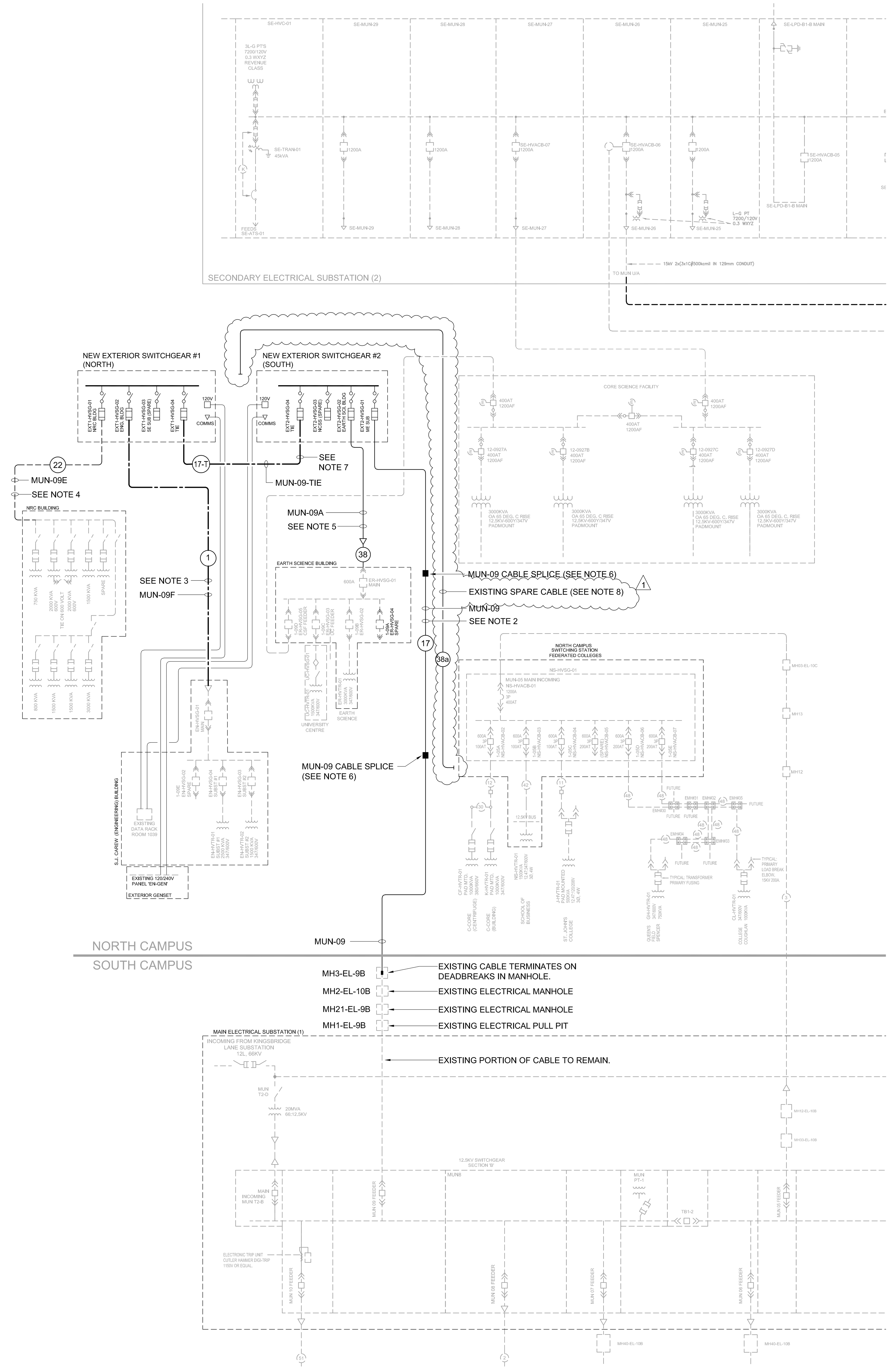
Drawing No.	Revision
E601	1

REVISED FEEDER SCHEDULE

TAG	No.	SIZE AND TYPE	RACEWAY	ROUTING	GROUND	AMPS
MUN 09	17	2// RUNS OF 3C 350 kcmil Cu 15kV TECK CABLE	CABLE TRAY	MANHOLE MH3-EL-9B TO EXTERIOR SWITCHGEAR #2 (SOUTH)	#3/0 CU CONDUCTOR	632
MUN 09-A	38	2// RUNS OF 3C 350 kcmil Cu 15kV TECK CABLE	CABLE TRAY/CONDUIT	EXTERIOR SWITCHGEAR #2 (SOUTH) TO EARTH SCIENCES BUILDING SWITCHGEAR	#3/0 CU CONDUCTOR	632
MUN 09-TIE	17-T	2 // RUNS OF 3 RUNS OF 1C #350 kcmil 15KV, 133% MV-105 CABLE IN 63mm CONDUIT. (CABLES ONLY SUPPLIED BY MUN)	CONDUIT	EXTERIOR SWITCHGEAR #2 (SOUTH) TO EXTERIOR SWIITCHGEAR #1 (NORTH)	#3 CU CONDUCTOR	620
MUN 09-E	22	EXISTING 3 NO. 500kcmil 15KV NU-AL TECK CABLE	CABLE TRAY/CONDUIT	EXTERIOR SWIITCHGEAR #1 (NORTH) TO NRC	---	---
MUN 09-F	1	2 // RUNS OF 3 RUNS OF 1C #350 kcmil 15KV, 133% MV-105 CABLE IN EXISTING CONDUIT.	CONDUIT	EXTERIOR SWITCHGEAR #1 (NORTH) TO ENGINEERING BUILDING SWITCHGEAR		632

NOTES:

1. SHADING INDICATES EXISTING TO REMAIN UNLESS OTHERWISE INDICATED.
2. NEW POWER FEED FROM MANHOLE MH3-EL-9B TO NEW EXTERIOR SWITCHGEAR, CABLES SUPPLIED AND INSTALLED BY CONTRACTOR UNDER THIS CONTRACT. CABLES ROUTED IN EXISTING CABLE TRAY IN TUNNEL
3. NEW POWER FEED ROUTED FROM EXTERIOR SWITCHGEAR TO ENGINEERING BUILDING SUBSTATION, CABLES SUPPLIED BY MUN AND INSTALLED BY CONTRACTOR UNDER THIS CONTRACT. CABLES ROUTED IN EXISTING U/G CONDUITS.
4. EXISTING POWER FEED PULLED FROM ENGINEERING BUILDING TO NEW EXTERIOR SWITCHGEAR AND TERMINATED UNDER THIS CONTRACT. EXISTING PORTION OF CABLE FROM NEW EXTERIOR SWITCHGEAR TO NRC ELECTRICAL ROOM IS EXISTING TO REMAIN.
5. NEW POWER FEED FROM EXTERIOR SWITCHGEAR TO EARTH SCIENCES BUILDING , CABLES SUPPLIED AND INSTALLED BY CONTRACTOR UNDER THIS CONTRACT. CABLES ROUTED IN EXISTING CABLE TRAY IN TUNNEL AND U/G CONDUITS.
6. NEW MUN-09 CABLE TO BE SPLICED (MAXIMUM TWO SPLICES IN CABLE RUN), SEE REVISED SITE PLAN FOR APPROXIMATE LOCATIONS. CABLE SPLICES TO BE LOCATED SO OVERALL CABLE RUN = 3 EQUAL LENGTHS. ADJUST LOCATIONS AS REQUIRED.
7. NEW POWER FEED BETWEEN EXTERIOR SWITCHGEAR #1 & #2, CABLES SUPPLIED BY MUN AND INSTALLED BY CONTRACTOR UNDER THIS CONTRACT.
8. EXISTING SPARE 2 RUNS OF 3 NO. 500kcmil 15kV NU-AL TECK CABLE ROUTED IN TUNNEL CABLE TRAY (FOR FUTURE USE).



1 PARTIAL ELECTRICAL RISER DIAGRAM - REVISED
E602 N.T.S.

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Notes

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Client/Project

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Department of Facilities Management

MUN-09 FEEDER CABLE REPLACEMENT & PAD MOUNT SWITCHGEAR (TU-509-23)
St. John's, NL Canada

Title
PARTIAL ELECTRICAL RISER DIAGRAM - REVISED

Project No. 133412009
Scale N.T.S.
Drawing No. E602
Revision 1

ORIGINAL SHEET - ISO B1