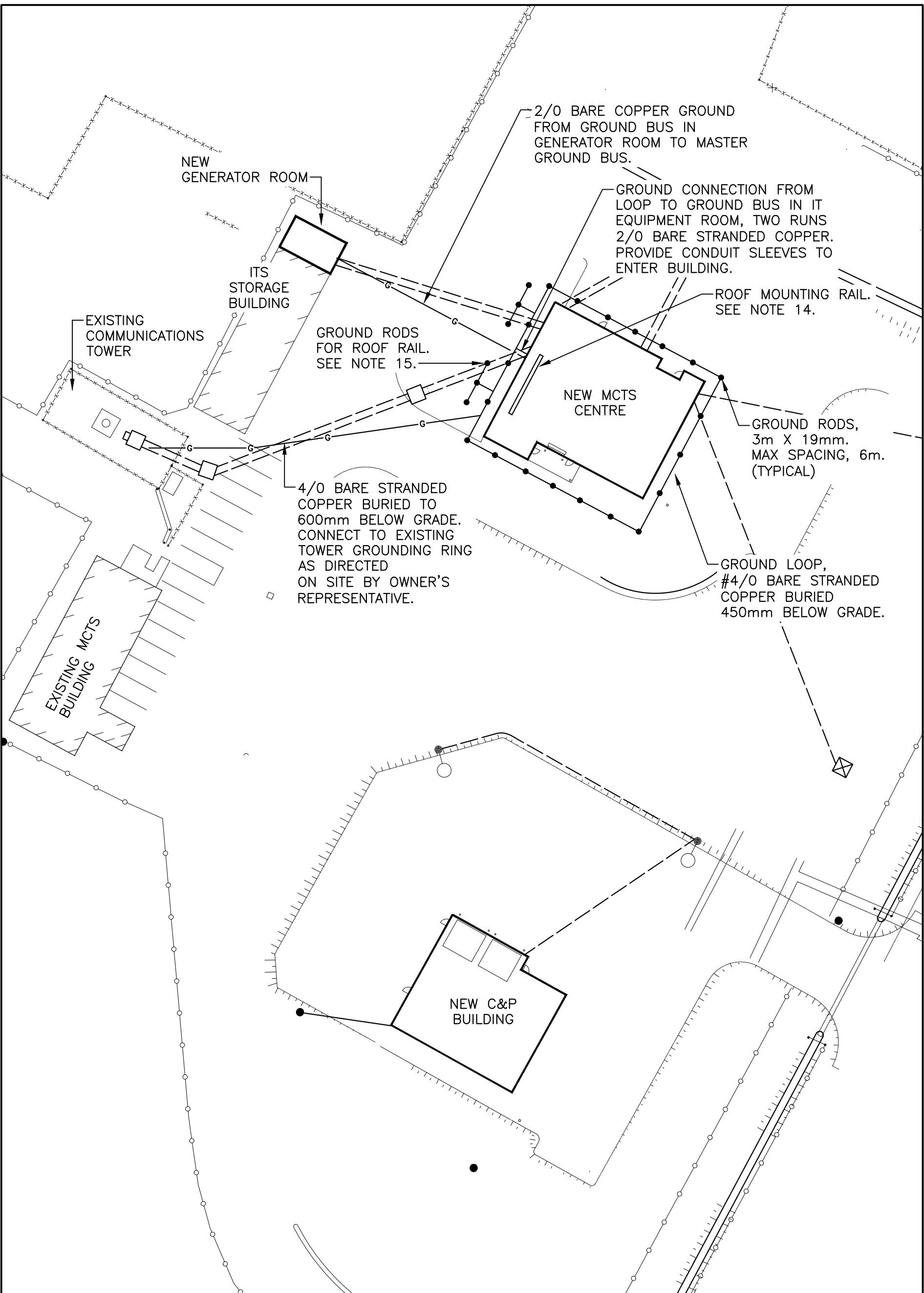


ELECTRICAL SITE PLAN  
SCALE: 1:500  
0m 10m 20m 30m 40m 50m  
1  
E2



ELECTRICAL GROUNDING PLAN  
SCALE: 1:500  
0m 10m 20m 30m 40m 50m  
2  
E2

SITE NOTES:

- PULL BOX: APPROXIMATE SIZE, 1500mm X 900mm DEEP, HIGH DENSITY POLYMER CONCRETE TO ANSI/SCTE TT-2010 TEIR 22. MINIMUM 55mm THICK WALLS. COVER; HIGH DENSITY CONCRETE WITH LIFTING RINGS AND FLUSH S.S. BOLTS. COVER FLUSH WITH GRADE. EXACT LOCATION TO BE CONFIRMED ON SITE. CONTRACTOR TO PROVIDE CONDUIT OPENINGS AS REQUIRED. BOX 1 TO BE LOCATED CLOSE TO THE EXISTING TOWER AS DIRECTED ON SITE. CONFIRM LOCATION AND CONDUIT ROUTING BEFORE STARTING WORK TO AVOID EXISTING CABLES, TRENCHING, GROUND WIRES, ETC.
- SUPPLY AND INSTALL 8x8x6 FIBERGLASS BOX WITH WATER TIGHT SCREW-ON COVER AND GASKET, NEMA 12 RATED, ON PRESSURE TREATED WOODEN POST. PROVIDE 2-53mm PVC CONDUITS FROM THE ELECTRICAL ROOM. IDENTIFY THE BOX AND CONDUITS AS "ENVIRONMENT CANADA". MOUNT BOX 400mm ABOVE GRADE ON WOODEN POST. TYPICAL TRENCH DETAILS WILL APPLY.
- INCOMING SERVICES:  
103mm CONDUIT- POWER, TO EL. ROOM 103.  
103mm CONDUIT- SPARE, TO EL. ROOM 103.  
103mm CONDUIT- COS. TO EQUIP. ROOM, 114.  
53mm CONDUIT - VOICE/DATA, TO LAN ROOM 108.  
53mm CONDUIT - TV, TO LAN ROOM 108.  
53mm CONDUIT - SPARE, TO LAN ROOM 108.
- ALL TRENCHES SHALL BE BACKFILLED AND TAMPED IN 300MM LAYERS, EXCEPT AT ROAD CROSSINGS WHERE THE BACKFILL SHALL BE THE SAME MATERIAL AS THE ROADBED AND TAMPED IN 150MM LAYERS. EXCESS FILL SHALL BE PLACED ON TOP TO ALLOW FOR SETTLING. MAX. ROCK SIZE PERMITTED IN THE SELECT BACKFILL MUST BE LESS THAN 50MM.
- THE DUCTS SHALL BE SUPPORTED BY APPROVED SPACERS. NO WIRE OR METAL TIES ARE TO BE USED.
- COPPER FISH WIRE MIN. #12 MUST BE INSTALLED IN ALL DUCTS.
- ELECTRICAL DUCT MUST BE RIGID PVC.
- ALL DUCTS AND FITTINGS MUST BE CSA APPROVED.
- ALL DUCTS ARE TO BE SECURELY CAPPED AT BOTH ENDS.
- ALL PVC FITTINGS, COUPLINGS & ADAPTERS ARE TO BE SOLVENT WELD.
- INSTALL 15MM DIAMETER REBAR ALONG 4 CORNERS OF CONCRETE DUCT BANK.
- INSTALL COMMUNICATIONS AND CABLE TV SERVICE CONDUITS IN ACCORDANCE WITH EACH UTILITIES STANDARDS. INCLUDE ALL ASSOCIATED COSTS IN CONTRACT PRICE.
- EXTERIOR LIGHTING: THE LIGHT FIXTURE LAYOUT ON THE DRAWING IS DESIGNED TO ACHIEVE AN AVERAGE ILLUMINATION OF 2.8 fc USING A COMBINATION OF POLE LIGHT AND WALL FIXTURES. THE CONTRACTOR MUST PREPARE DESIGN CALCULATIONS TO OBTAIN A SIMILAR DISTRIBUTION TO THE LAYOUT INCLUDED IN THE SPECIFICATION APPENDIX I. FIXTURE QUANTITY AND LOCATION MAY CHANGE IF NECESSARY TO ACHIEVE THE DESIRED RESULTS. DEPENDED ON THE SELECTED FIXTURES. THE CONTRACTOR MUST INCLUDE CONDUIT AND WIRING AS REQUIRED TO SUIT ANY CHANGES TO THE LAYOUTS.
- ROOF RAIL STRUCTURE FOR MOUNTING OWNER SUPPLIED EQUIPMENT AND LIGHTNING PROTECTION. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATION AND DETAILS. SEE DRAWING E12.
- GROUND ROD FOR LIGHTNING PROTECTION. LOCATION TO BE DETERMINED ON SITE. REFER TO DRAWING E12 FOR DETAILS.
- EXISTING DRAWING INDICATES UNDERGROUND ELECTRICAL CONDUITS IN THE AREA OF THE NEW WORK. REFER TO CIVIL SITE PLAN DRAWING C2.

Public Works and  
Government Services  
Canada

amec foster wheeler

PROVINCE OF NEWFOUNDLAND AND LABRADOR  
PERMIT HOLDER  
2017-07-14  
AMEC FOSTER WHEELER AMERICAS LIMITED  
To practice Professional Engineering  
in Newfoundland and Labrador.  
Permit No. as issued by PEG  
which is valid for the year 2017

REGISTERED PROFESSIONAL ENGINEER  
WILLIAM C. CALDWELL  
2017-07-14  
NEWFOUNDLAND & LABRADOR



GENERAL NOTE:  
1. THE TERMS "SUPPLY", "PROVIDE" AND "INSTALL" SHALL MEAN THE CONTRACTOR MUST SUPPLY AND INSTALL THE REFERENCED ITEM UNLESS NOTED OTHERWISE. TYPICAL FOR ALL DRAWINGS.

D	ISSUED FOR TENDER	JUL 13 2017
C	ISSUED FOR TENDER	JUN 28 2017
B	ISSUED FOR 99% REVIEW	MAY 25 2017
A	ISSUED FOR CLIENT REVIEW	APR 28 2017
revisions		date

MCTS CENTRE AND  
C&P BUILDING  
PLACENTIA

designed  
date  
drawn  
date  
approved  
date  
Tender  
Project Manager  
project number  
drawing no.

conçu  
1:1:2017  
dessiné  
1:1:2017  
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1:1:2017  
Submission  
g.f. macgillivray july 14/17  
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E2