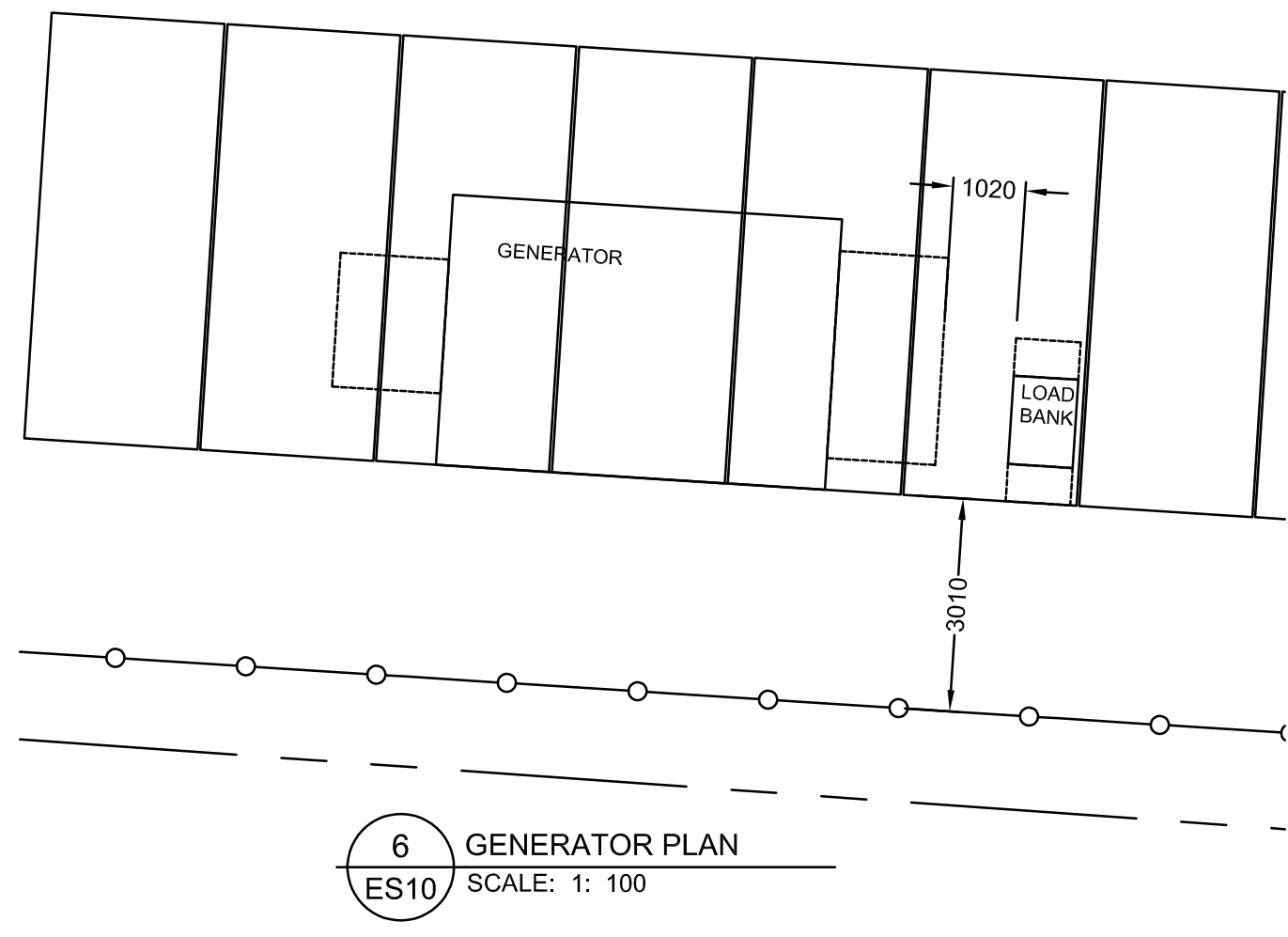
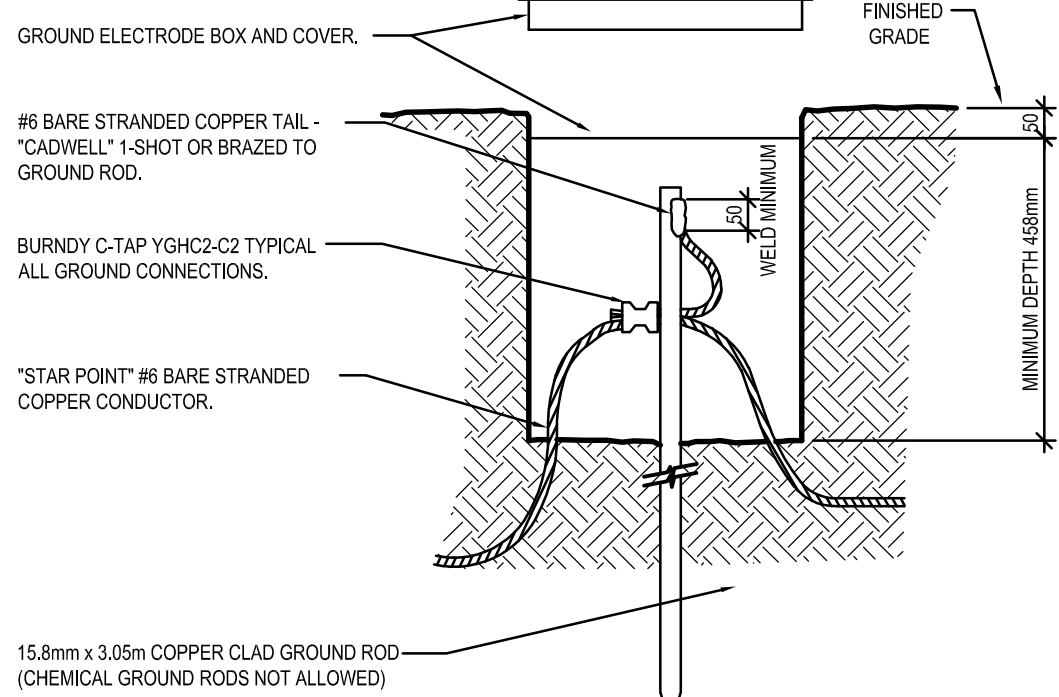


1 ELECTRICAL SITE PLAN
ES10 SCALE: 1: 500

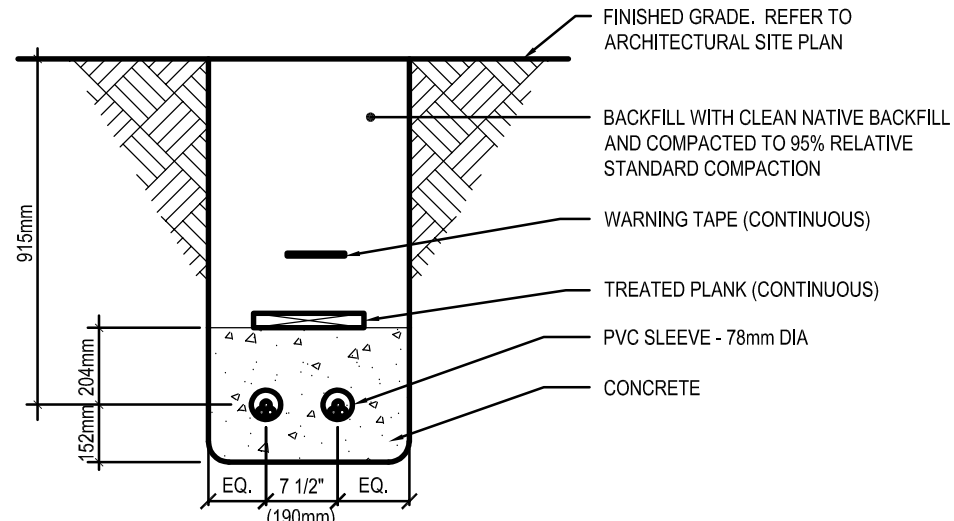


6 GENERATOR PLAN
ES10 SCALE: 1: 100

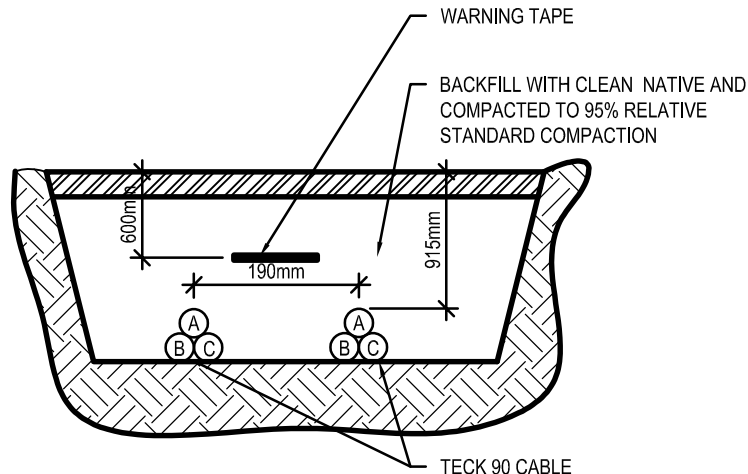


NOTE:
1. WHEN INSTALLING HYDEL COVERS, SET THE TOP OF THE CANISTER APPROXIMATELY 50mm BELOW GRADE. REQUEST INSPECTION OF GROUNDING SYSTEM PRIOR TO COVERING TO GRADE LEVEL.
2. GROUND ELECTRODE BOXES #14 GAUGE HOT DIPPED GALVANIZED STEEL ONLY HYDEL ENGINEERING LTD. #700 254mmØ x 305mm DEEP MICRO ELECTRIC "Pole Line" #51629 254mmØ x 305mm DEEP

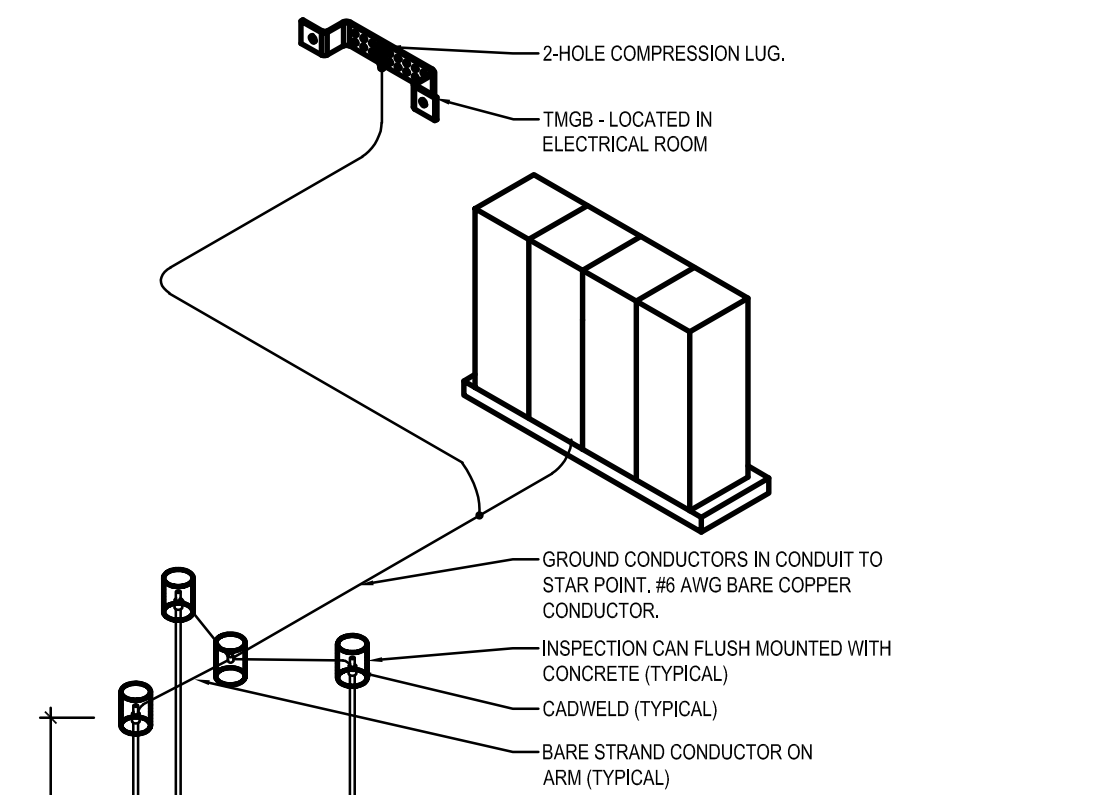
4 GROUNDING ELECTRODE TEST PIT
ES10 SCALE: N.T.S.



3 TYPICAL U/G CABLE DUCT BANK
ES10 SCALE: N.T.S.



2 TYPICAL U/G CABLE DIRECT BURIED
ES10 SCALE: N.T.S.



GROUND SCHEMATIC DETAIL NOTES
1. MEASURE THE GROUND RESISTANCE AT THE LOCATION WHERE GROUND RODS ARE TO BE DRIVEN USING A FOUR POINT SOIL RESISTIVITY TEST. SUBMIT TEST REPORT TO ENGINEER OF RECORD FOR REVIEW.

5 GROUNDING ELECTRODE LAYOUT
ES10 SCALE: N.T.S.

- GENERAL
- UNITS OF MEASUREMENT IS IN MM UNLESS OTHERWISE STATED.
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CIVIL AND SURVEYING DRAWINGS. COORDINATE AND VERIFY THE ACTUAL LOCATION AT SITE WITH OTHER SERVICES.
 - CONTRACTOR SHALL ARRANGE AND CO-ORDINATE WITH QEC UTILITY FOR NEW SERVICE INSTALLATION AND CONNECTION. THE COMPLETE INSTALLATION SHALL BE TO THE FULL SATISFACTION OF QEC SUPPLY UTILITY AND ENGINEER. INCLUDE ALL CHARGES IN CONTRACT. **PAY ALL UTILITY CHARGES AS REQUIRED.**
 - CONTRACTOR SHALL PROVIDE ANY/ALL TRENCHING AND BACKFILLING FOR POWER SUPPLY INSTALLATION. ALL WIRING SHALL BE INSTALLED IN A MINIMUM OF 914mm BELOW GRADE.
 - PROVIDE CONDUIT SLEEVES FOR ALL WIRING/CABLING/SERVICES ENTERING BUILDING. ALL WORK RELATED TO SLEEVING IS TO BE FULLY COORDINATED WITH GENERAL CONTRACTOR.
 - CONTRACTOR SHALL FULLY COORDINATE THE EXACT LOCATION OF ALL INCOMING SERVICE EQUIPMENT WITH THE QEC UTILITY PRIOR TO TRENCHING AND INSTALLATION.
 - SCHEDULING OF ANY/ALL WORK INVOLVING THE EXISTING BUILDING SHALL BE ARRANGED WITH OWNER TO MINIMIZE DISRUPTIONS TO OWNER'S OPERATION DURING NORMAL WORKING HOURS. ANY/ALL SHUTDOWN(S) OR INTERRUPTION TO ANY SYSTEM SHALL BE AT TIMES ACCEPTABLE AND APPROVED BY OWNER.
 - MAINTAIN ALLOWABLE CABLE BENDING RADIUS AS PER CODE AND PROVIDE APPLICABLE CABLE PROTECTION AND WARNING TAPE IN THE GIVEN TRENCH.
 - ENSURE TRENCHES ARE FREE OF FOREIGN OBJECTS, DEBRIS AND/OR SHARP METAL PRIOR TO BACKFILLING.
 - REFER TO UNDERGROUND CABLE INSTALLATION DRAWING FOR DETAILS.
 - REFER TO SPECIFICATIONS ELECTRICAL TESTING WORK FOR CABLE AND GROUND TESTING PROCEDURES.
 - CONTRACTOR TO PROVIDE COMPLETE FULL LENGTH OF CABLE FROM ORIGIN UTILITY POINT TO THE DESTINATION MAIN DISTRIBUTION PANEL TERMINATION POINT. SPLICING OF CABLE IS NOT PERMITTED.
 - CABLES IN THE SPOOL SHALL BE TESTED (MEGGER) PRIOR TO CABLE PULLING TO ENSURE THE CABLES ARE IN GOOD CONDITION, RECORD THE FINDINGS.
 - CONTRACTOR TO PROVIDE SAFETY BARRIER AND SIGNAGE FOR ALL OPEN CABLE TRENCH.
 - CONDUCT GROUNDING RESISTANCE TEST FOR THE INSTALLED GROUNDING ELECTRODES. RECORD THE TOOL/INSTRUMENT USE, CALIBRATION DATA AND THE FINDINGS.
 - CONTRACTOR TO ARRANGE WITH QEC FOR THE DISCONNECTION OF THE ELECTRICAL SERVICE TO THE EXISTING BUILDING WHEN THE NEW ELECTRICAL SERVICE AND ASSOCIATED ELECTRICAL DISTRIBUTION MDB-41 IN THE BUILDING ADDITION IS COMPLETELY LIVE AND FUNCTIONAL.
 - INTERCONNECTION OF FIBER CABLE FROM CITY HALL TO THIS BUILDING IS NOT PART OF THE PROJECT SCOPE OF WORK. CITY OF IQALUIT TO ARRANGE.
 - PRIOR TO ROUGH-IN FOR THE GENERATOR INSTALLATION, COORDINATE FINAL LOCATION OF THE GENERATOR AND LOAD BANK ON SITE.
 - REFER TO STRUCTURAL DRAWING FOR DETAILS ON THE GENERATOR FOUNDATION.
 - THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL NECESSARY ELECTRICAL PROVISIONS WITH STEEL CAR PARKING RAIL FABRICATOR INCLUDING, BUT NOT LIMITED TO BONDING PROVISIONS, CABLE PASS THROUGH, HANDHOLES, RECEPTACLE MOUNTING. ALL PROVISIONS SHALL BE MARKED ON THE STEEL RAIL SHOP DRAWINGS.

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CONSULTANTS

NOT FOR
CONSTRUCTION

PERMIT / STAMP

15	02/06/022	ISSUED FOR ADDENDUM
14	12/05/022	ISSUED FOR TENDER
13	29/04/022	ISSUED FOR PRE-TENDER CHECK SET
12	26/03/021	ISSUED FOR CLIENT REVIEW (100%)
11	24/02/021	ISSUED FOR REVIEW
10	17/02/021	ISSUED FOR CLIENT REVIEW (100%)
9	12/02/021	ISSUED FOR COORDINATION
8	05/02/021	ISSUED FOR COORDINATION
7	22/01/021	ISSUED CLASS A ESTIMATE
6	15/01/021	ISSUED FOR COORDINATION
5	12/06/020	ISSUED FOR 95% REVIEW
4	03/11/020	ISSUED FOR OWNER REVIEW
3	03/05/020	ISSUED FOR REVIEW
2	12/20/019	ISSUED FOR REVIEW
1	11/29/019	ISSUED FOR 50% REVIEW

CLIENT

CITY OF IQALUIT
OPERATIONS CENTRE

1549 FEDERAL ROAD
IQALUIT, NUNAVUT
X0A 0H0

CLIENT PROJECT NO. 820837

TITLE:
ELECTRICAL SITE PLAN

SCALE: AS NOTED
PROJECT NUMBER: 2019.00800
DRAWN BY: ABL

ES10