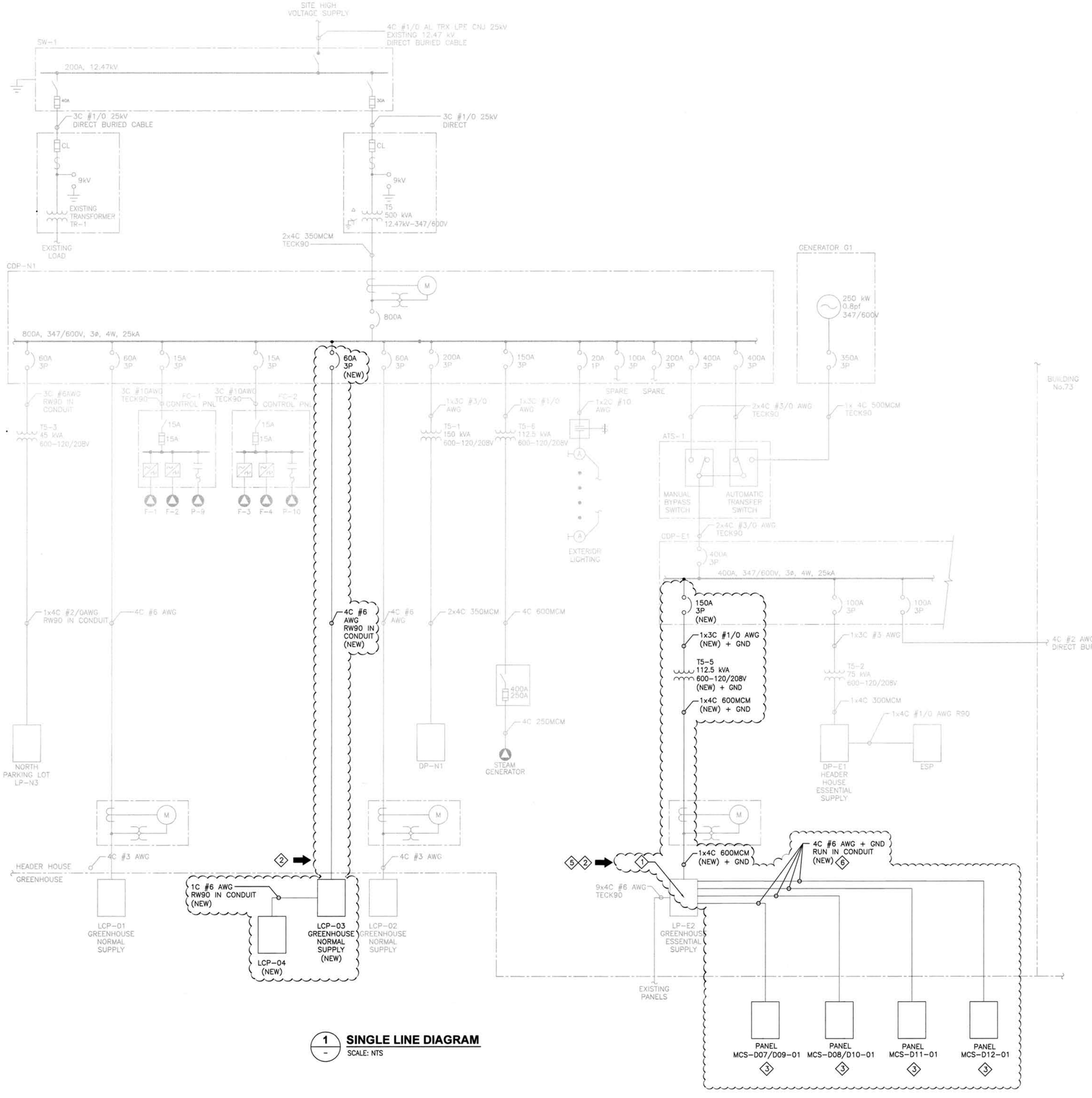
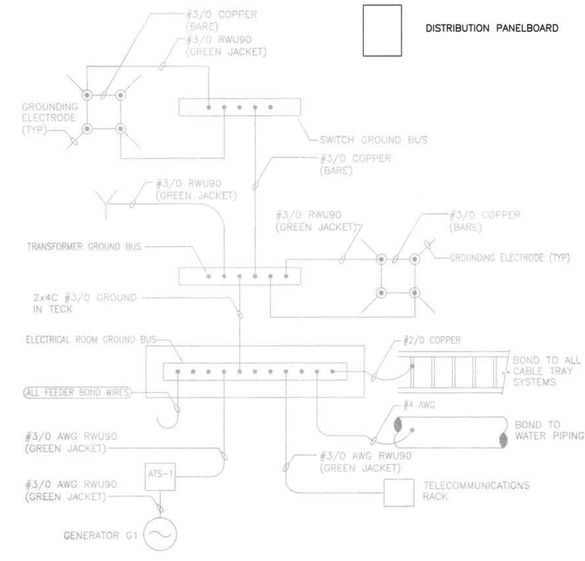


1 – **SINGLE LINE DIAGRAM**
SCALE: NTS



2 – **EXISTING GROUNDING SINGLE LINE DIAGRAM** 4
SCALE: NTS

GENERAL NOTES:

1. GREY SHADE DENOTES EXISTING.
2. MINIMUM 15kAIC INTERRUPTING CAPACITY REQUIREMENT ON ALL 120/208V ELECTRICAL EQUIPMENT.
3. EXISTING DISTRIBUTION EQUIPMENT IS SCHNEIDER/SQUARE D. CONFIRM ALL EQUIPMENT REQUIREMENTS BEFORE PURCHASE.
4. PROVIDE INSULATED GREEN GROUNDING CONDUCTOR WITH EACH CONDUIT RUN.

NOTES:

1. REPLACE EXISTING 250A BREAKER WITH A NEW 400A MAIN BREAKER WITHIN PANEL. NEW BREAKER SHALL MATCH EXISTING.
2. CLOUD INDICATES SCOPE OF WORK FOR THE GREENHOUSE EXTENSION PROJECT. PROVIDE ALL NEW EQUIPMENT, BREAKERS AND FEEDERS AS INDICATED.
3. SEE GREENHOUSE DESIGNER DRAWING GHE-02/03/04.
4. NO NEW GROUNDING SYSTEMS REQUIRED. CONTRACTOR TO BOND NEW GREENHOUSE PANELS AS REQUIRED.
5. NEW FEEDER BREAKER, FEEDER CABLES, TRANSFORMER AND MAIN PANEL BREAKER REQUIRED. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT INCLUDING CABLE, BREAKERS, CONDUIT, PULL BOXES, TRANSFORMER, ETC. OFFER TO AAFC ALL EQUIPMENT. REMOVE FROM SITE ALL REMAINING EQUIPMENT.
6. PROVIDE SINGLE CONDUIT AND PULL BOXES FOR RUN THROUGH EXISTING GREENHOUSE. MINIMIZE SHADING OF GREENHOUSE COMPARTMENT.

LEGEND:

- CIRCUIT BREAKER
- FUSED DISCONNECT SWITCH
- TRANSFORMER
- CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER
- GENERATOR
- M — ELECTRIC METER
- DISTRIBUTION PANELBOARD

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

Design Team Consultant

KGS GROUP | CONSULTING ENGINEERS

Revision	Description	Date
0	ISSUED FOR TENDER	2016/06/27

Client: PUBLIC WORKS & GOVERNMENT SERVICES CANADA

Project: MORDEN, MANITOBA
101 ROUTE 100, UNIT 100

MORDEN RESEARCH AND DEVELOPMENT CENTRE GREENHOUSE EXTENSION

Designed by / Conçu par: CPS
Drawn by / Dessiné par: RAH
Approved by / Approuvé par:
PWGSC Project Manager / Administrateur de Projets TPSGC: BRAD SITARZ

Drawing title / Titre du dessin: ELECTRICAL SINGLE LINE DIAGRAM

APEGM Certificate of Authorization
KGS Group
No. 245

PROVINCE OF MANITOBA — ROBERT SURGENOR — Member — 31106 — REGISTERED PROFESSIONAL ENGINEER

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.076333.001	E01 OF 06	0

PWGSC – B1 – 1000X707

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