

1. TYPICAL OPEN WORK STATION, 1 CIRCUIT PER 2 WORK STATIONS
2. TYPICAL COLLABORATIVE SPACES, 2 CIRCUITS PER 15 SQUARE METERS
3. TYPICAL OFFICE SPACES, 2 CIRCUITS
4. TYPICAL MEDIUM MEETING ROOM, 2 CIRCUITS
5. TYPICAL LARGE MEETING ROOM, 2 CIRCUITS
6. TYPICAL QUIET ROOM, 1 CIRCUIT
7. TYPICAL SMALL MEETING ROOM, 2 CIRCUITS
8. REFER TO MOTOR EQUIPMENT SCHEDULE FOR ALL CIRCUIT NUMBERS OF ALL MECHANICAL EQUIPMENT.
9. RUN WIRES AND CONDUIT TO LOCATION SHOWN. CORE THROUGH EXISTING CONCRETE SLAB. COORDINATE WITH STRUCTURAL PRIOR TO CORING. PROVIDE SEPARATE CONDUITS FOR POWER.
10. TO RUN WIRES AND CONDUIT IN COLUMN FROM JUNCTION BOX/RECEPTABLES TO CEILING MOUNTED JUNCTION BOX. PROVIDE SEPARATE CONDUITS FOR POWER.
11. PROVIDE RACEWAY FOR POWER AND DATA WIRING INTO TWO SEPARATE COMPARTMENTS. RACEWAY TO BE WIREMOLD DS4000 SERIES STEEL RACEWAY.
12. MODULAR FURNITURE C/W BUILT-IN DUPLEX RECEPTABLES BY OTHERS. WIRING AND CONNECTION BY ELECTRICAL CONTRACTOR.

ALL RECEPTACLE IDENTIFICATION SHALL MEET 232-09-01 RULE 5(A.3).

-BASIC CABLE RECEPTABLES INSTALLATION SHALL MEET REQUIREMENTS OF TABLE 6 OF 232-09.

-ALL CIRCUITS IN BASIC CABLE AREAS SHALL COMPLY AND MEET ALL REQUIREMENTS OF C.E.C. RULE 24-100 TO 24-108 AND 24-109 TO 24-112.

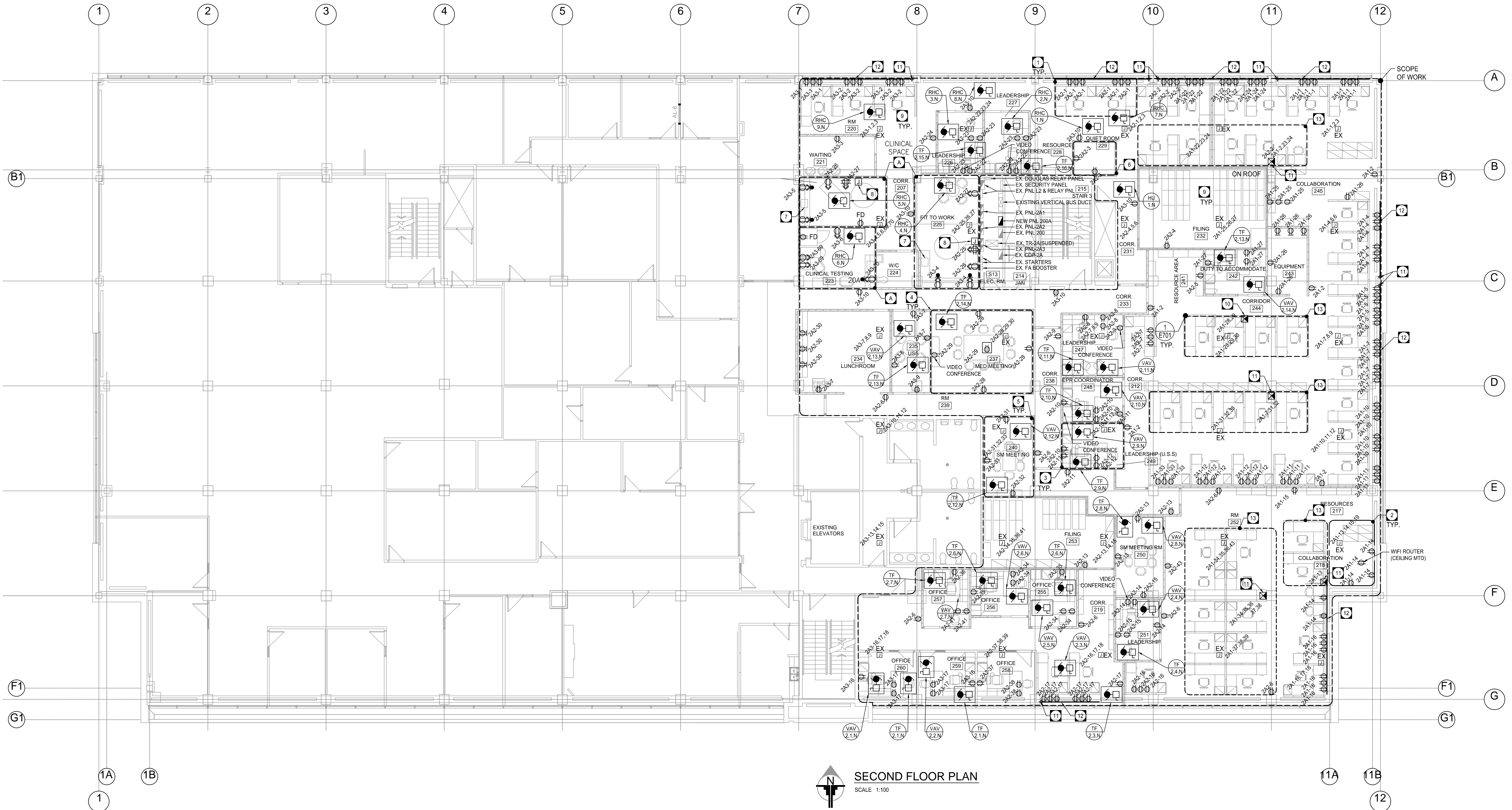
-RECEPTABLES SHALL BE HOSPITAL GRADE TYPE, HUBBELL 82000 SERIES OR APPROVED EQUAL.

-PROVIDE BONDING/GROUNDING UNDER SINKS & FAUCETS (INCLUDING ALL NONE CONDUITING METAL PARTS OF DEVICES/EQUIPMENT/APPLIANCES/DUCT/PIPING/ETC) AS PER CHAPTER 24 OF THE ELECTRICAL CODE (C.E.C.) SECTION 24-4 RULE 24-104 & 24-112. EACH BRANCH CIRCUIT IN PATIENT CARE AREA SHALL HAVE IT ON SEPARATE INSULATED BONDING CONDUCTOR.

-SIZE OF BRANCH CIRCUIT CONDUCTORS SCHEDULED AND/OR SPECIFIED ON THE DRAWINGS ARE MINIMUM SIZES AND MUST BE INCREASED AS REQUIRED TO SUIT LENGTH OF RUN AND VOLTAGE DROP IN ACCORDANCE WITH 232-09-05.1 AND C.E.C. RULE 8-102. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO INCREASE CABLE/WIRE SIZES WITHOUT ANY CHARGE FOR ADDITIONAL COST. MINIMUM SIZE OF WIRE SHALL BE #10AWG RW90.

-THE FOLLOWING TESTS SHALL BE PERFORMED ON THE BRANCH CIRCUITS OF BASIC CABLE RECEPTABLES:

- 1.1. INSULATION RESISTANCE TEST AS PER SECTION 232-09-05.3.2 FOR ALL NEUTRAL AND UNGROUNDED CONDUCTORS.
- 1.2. VOLTAGE DROP TEST AS PER SECTION 232-09-05.4.1 TO 5.4.3.
- 1.3. MECHANICAL OPERATION TEST OF CIRCUIT BREAKERS AS PER SECTION 232-09-05.5.
- 1.4. MECHANICAL TENSION TEST OF ALL NON-LOCKING RECEPTABLES BY MEANS OF A RETENTION TESTER PER SECTION 232-09-05.6.1.
- 1.5. POLARITY TEST OF ALL RECEPTABLES PER SECTION 232-09-05.6.3.
- 1.6. VOLTAGE DIFFERENCE LIMITS TEST AS PER SECTION 232-09-05.9.
- 1.7. GROUND RETURN PATH VOLTAGE RISE TEST AS PER SECTION 232-09-05.10.
- 1.8. SUBMIT TEST RESULTS TO CONSULTANT.



CONSULTANT

These design documents are prepared solely for the use by the party with whom the design professional has entered into a contract and there are no representations of any kind made by the design professional to any party with whom the design professional has not entered into a contract.

Any use of the drawing, data or electronic data without the expressed written permission of Tower Engineering Group is strictly prohibited.

The contractor is responsible to verify all field dimensions with conditions on the site and report discrepancies to Tower Engineering for adjustment.

All prints to be returned.

TOWER PROJECT NO. : 13039

**TOWER ENGINEERING GROUP**

UNIT 1 - 1140 WAYERLEY ST. WINNIPEG, MB R3T 0P4  
TEL: (204) 925-1150 FAX: (204) 925-1155  
EMAIL: towereng@towereng.ca WEB: www.towereng.ca

• WINNIPEG • CALGARY • CAMBRIDGE



Certificate of Authorization  
Tower Engineering Group  
No. 4156 Expiry: April 30, 2014

**DO NOT SCALE DRAWINGS**


0	ISSUED FOR TENDER/CONSTRUCTION	28/11/13
Revision/ Rwision	Description/Description	Date/Date
Client/client		

**PUBLIC WORKS  
GOVERNMENT SERVICES  
CANADA**

100-167 LOMBARD AVENUE  
PO BOX 1408  
WINNIPEG, MANITOBA R3C 2Z2

Project title/Titre du projet

**STANLEY KNOWLES FIT-UP**  
**391 YORK AVENUE**

Approved by/Approuve par  
II

Designed by/Concept per

Drawn by/Dessine par  
**DA**

PWGSC Project Manager/Administrateur de Projets TPSGC

OH

PWGSC, Architectural and Environmental Resources Architectural et d'

Client/client

Drawing title/Titre du dessin

## ELECTRICAL SECOND FLOOR POWER LAYOUT

Project No./No. du projet

**R.056754.002**

Sheet Fossil

**E4-03**

OF 21

Revision no./  
date:

0