



Certificate of Authorization
Epp Siepman Engineering Inc.
No. 4035



Revision	Description	Date
0	ISSUED FOR CONSTRUCTION	2017-04-24

**PUBLIC WORK AND
GOVERNMENT SERVICES
CANADA**

Project Title: **CRA WINNIPEG TAX-CENTRE FIT-UP**

Project Location: **WINNIPEG, MANITOBA**

Designed by: **SV** / Conçu par

Drawn by: **MP** / Dessiné par

Approved by: **Jason Frozza** / Approuvé par

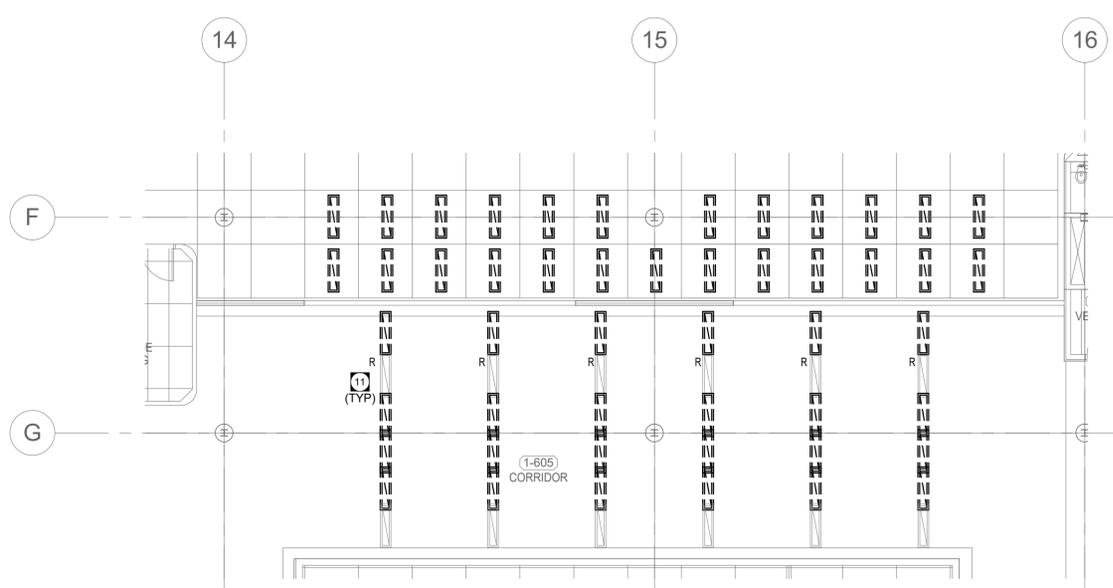
PW/SGC Project Manager: **Jason Frozza** / Administrateur de Projets TPSGC

Drawing Title: **MAIN FLOOR - TRAINING ROOM #2 & #3 - LIGHTING & POWER PLAN - DEMO & RENO**

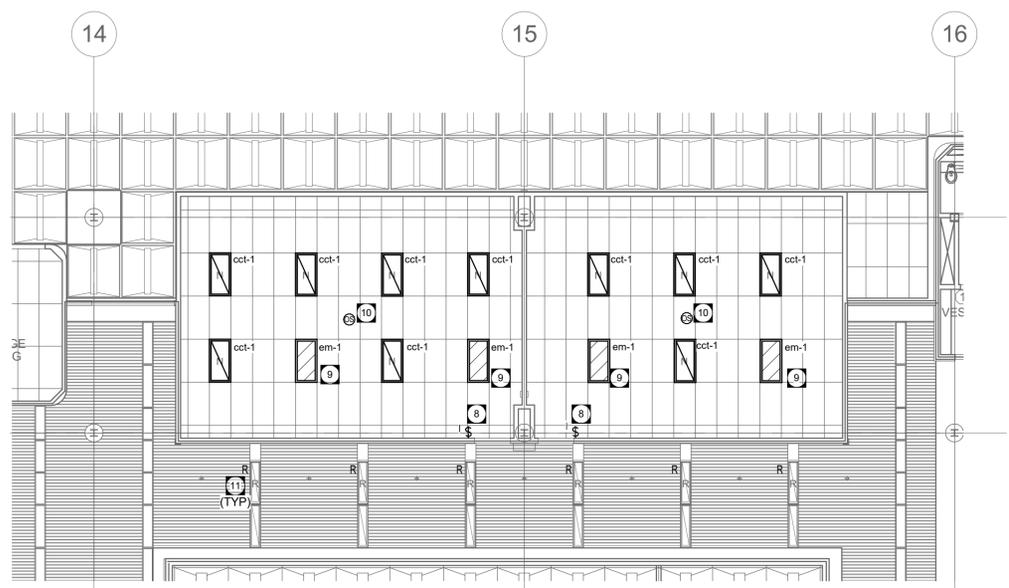
Project no./No. du projet: **R.078618**

Drawing no./No. du dessin: **E2.2**

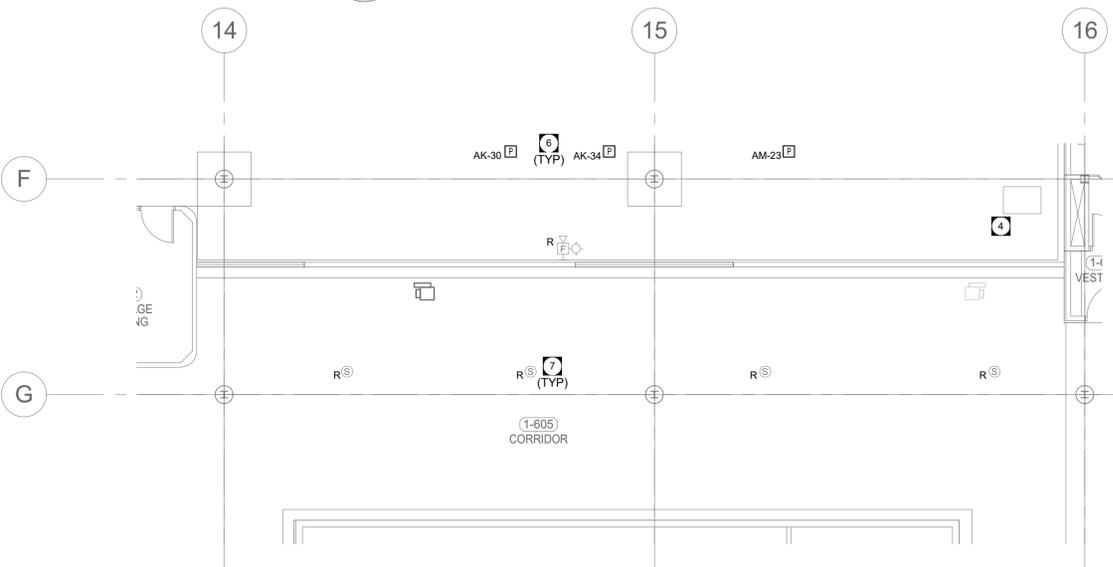
Revision no.: **4 OF 10**



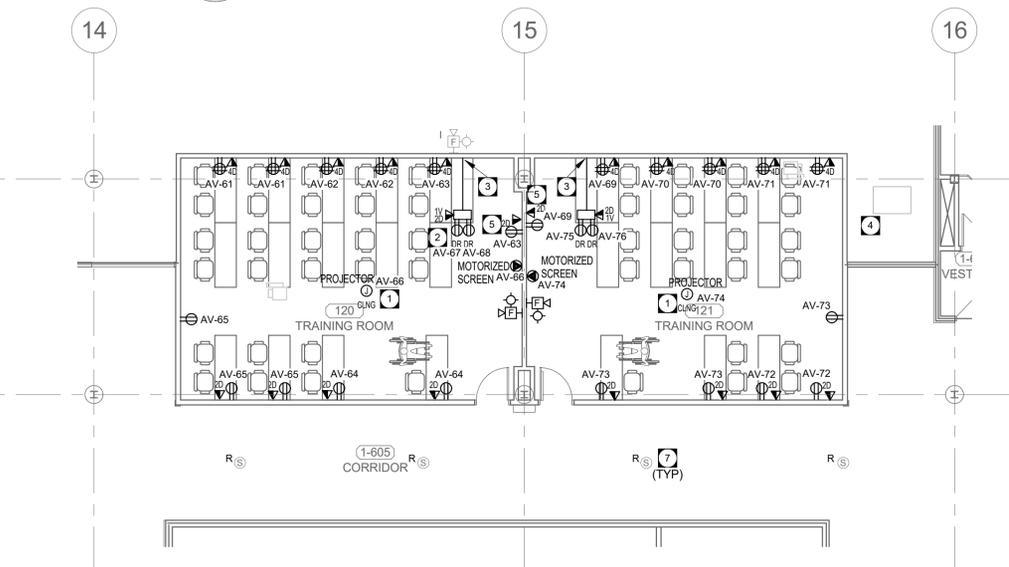
1 TRAINING ROOMS (120, 121) RCP DEMOLITION PLAN
E2.2 SCALE: 1 : 100



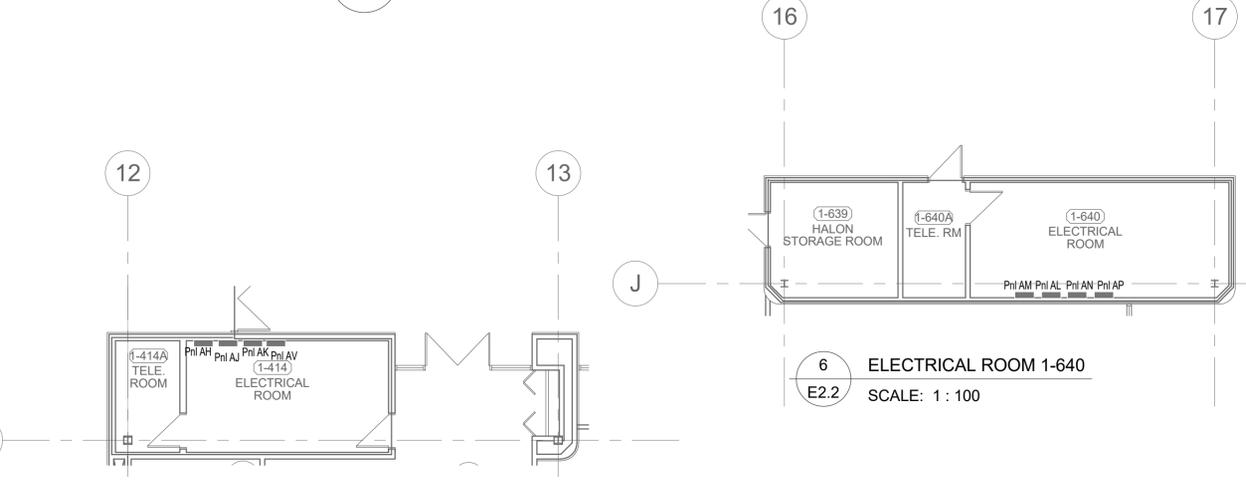
2 TRAINING ROOMS (120, 121) RCP RENOVATION PLAN
E2.2 SCALE: 1 : 100



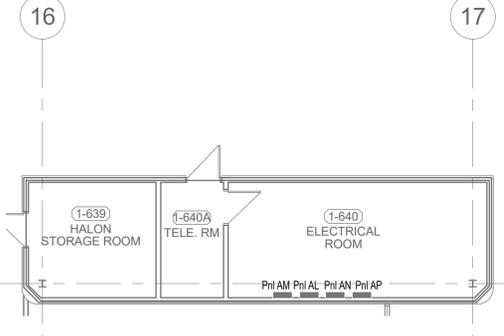
3 TRAINING ROOMS (120, 121) POWER DEMOLITION PLAN
E2.2 SCALE: 1 : 100



4 TRAINING ROOMS (120, 121) POWER/SYSTEMS RENOVATION PLAN
E2.2 SCALE: 1 : 100



5 ELECTRICAL ROOM 1-414
E2.2 SCALE: 1 : 100



6 ELECTRICAL ROOM 1-640
E2.2 SCALE: 1 : 100

GENERAL NOTES

- COORDINATE ALL WORK REQUIRING SHUT-DOWN OF EXISTING SYSTEMS THAT COULD AFFECT EXISTING TENANTS WITH THE BUILDING OWNER AT A TIME AND MANNER SUITABLE TO THEM. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES AND LIGHTING CONTROL IN RENOVATION AREA COMPLETE WITH WIRING BACK TO SOURCE. REUSE EXISTING 347V CIRCUITS FOR NEW LIGHTING FIXTURES WITHIN THE SPACE. PROVIDE TYPEWRITTEN PANEL DIRECTORIES INDICATING UPDATED CIRCUITING. TURN ALL LIGHTING COMPONENTS OVER TO BUILDING OWNER.
- PROVIDE NEW 610MM X1220MM (2'X4') VOLUMETRIC RECESSED LED TROFFER, 347V, 4000LM, 82CRI, 3500K. LIGHT FIXTURE SHALL BE COMPATIBLE WITH DIGITALLY ADDRESSABLE LIGHTING CONTROL SYSTEM. LIGHT FIXTURE SHALL BE RATED TO ALLOW ACOUSTIC BLANKET. CIRCUITING INDICATED IS REPRESENTATIONAL ONLY.
- PROVIDE NEW DIGITALLY ADDRESSABLE LIGHTING CONTROL SYSTEM COMPLETE WITH DIMMERS, OCCUPANCY SENSORS, DAYLIGHT SENSORS AS INDICATED & 347V POWER/REPLAY PACKS & NETWORK BRIDGE AS REQUIRED. PROVIDE LIGHTING CONTROL GATEWAY & CONTROL IN COMMISSIONAIR'S OFFICE (INDICATED IN SITE PLAN) FOR COMPLETE CONTROL OF ALL NEW LIGHT SYSTEM. REFER TO DRAWING E2.8 FOR WIRING DETAIL.
- COMMUNICATIONS OUTLETS SHOWN FOR COORDINATION ONLY. ALL DATA RACKS, CABLING AND TERMINATION BY SSC (NIC). ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PATHWAY AND ROUGH-IN REQUIRED FOR COMMUNICATION OUTLETS.
- CONTRACTOR SHALL REMOVE ALL EXISTING ABANDONED WIRING IN CEILING SPACE BACK TO SOURCE. SECURE ALL EXISTING UN-SUPPORTED WIRING, CONDUIT AND JUNCTION BOXES TO MEET MINIMUM CODE REQUIREMENTS.
- DEMOLISH EXISTING LOW VOLTAGE RELAY LIGHTING CONTROL IN THE RENOVATION AREA. TURN ALL COMPONENTS OVER TO BUILDING OWNER.
- ALL DEVICES INDICATED WITH 'R' SHALL BE RELOCATED. INCLUDE THE COMPLETE RELOCATION OF THE EXISTING ITEM IDENTIFIED IN ITS CURRENT LOCATION ON THE DEMOLITION DRAWINGS, TO THE NEW LOCATION AS INDICATED ON THE RENOVATION DRAWINGS. INCLUDE ALL LABOUR AND MATERIALS TO RELOCATE/EXTEND/REFIT THE EXISTING CIRCUITRY AS REQUIRED TO ACCOMMODATE THE RELOCATION.

KEY NOTES

- PROVIDE ONE (1) (120V / 15A) QUADPLEX RECEPTACLE ON DEDICATED CIRCUIT ABOVE CEILING TILES AT THE LOCATION OF CEILING MOUNTED PROJECTOR. WIRE AND CONNECT MOTORIZED SCREEN COMPLETE WITH SAME CIRCUITING USED FOR QUADPLEX RECEPTACLE. PROJECTOR AND MOTORIZED SCREEN PROVIDED AND INSTALLED BY AV CONTRACTOR (NIC). COORDINATE EXACT LOCATION WITH DEPARTMENTAL REPRESENTATIVE ON SITE.
- PROVIDE TWO (2) (120V / 15A) DEDICATED CIRCUIT RECEPTACLE INSTALLED WITHIN OVERFLOOR RACEWAY BOX. OVERFLOOR RACEWAY PROVIDED AND INSTALLED BY AV CONTRACTOR (NIC). COORDINATE EXACT LOCATION WITH DEPARTMENTAL REPRESENTATIVE ON SITE.
- PROVIDE TWO (2) 27MM CONDUIT FROM THE WALL AND UP IN THE CEILING SPACE ABOVE T-BAR GRID. CONDUITS SHALL TERMINATE AT THE OVERFLOOR RACEWAY WALL TRANSITION BOX AT FLOOR AND SHALL BE OPEN WITH CONNECTOR AND BUSHING ABOVE T-BAR CEILING SPACE. COORDINATE EXACT LOCATION WITH DEPARTMENTAL REPRESENTATIVE ON SITE.
- EXISTING DATA RACK TO REMAIN.
- COORDINATE LOCATION AND MOUNTING HEIGHT OF RECEPTACLE AND DATA OUTLET FOR WALL MOUNTED MONITOR WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO ROUGHIN.
- DEMOLISH EXISTING POWER POLES. RETURN POWER POLES BACK TO OWNER.
- RELOCATE PA SPEAKER TO SUIT NEW LAYOUT. CONTRACTOR SHALL MODIFY LINEAR METAL CEILING AS REQUIRED.
- PROVIDE NETWORKED SYSTEM WALL DIMMER SWITCH. DIMMER SWITCH SHALL HAVE ON/OFF & RAISE/LOWER DIMMING FUNCTIONALITY. DIMMER SWITCH SHALL BE PART OF DIGITALLY ADDRESSABLE LIGHTING CONTROL SYSTEM AND INTEGRATED WITH THE OCCUPANCY SENSOR IN THE ROOM.
- LIGHT FIXTURES SHALL BE PART OF EMERGENCY LIGHTING CIRCUIT. EMERGENCY FIXTURES SHALL BE PART OF DIGITALLY ADDRESSABLE LIGHTING CONTROL SYSTEM AND SHALL BE CONTROLLED BY DIMMER SWITCH AND OCCUPANCY SENSOR IN THE ROOM. FIXTURES SHALL MONITOR CIRCUITING OF OTHER FIXTURES IN THE ROOM, SUCH THAT DURING POWER OUTAGE, EMERGENCY FIXTURES SHALL FULLY (100%) TURN ON. CIRCUITING INDICATED IS REPRESENTATIONAL ONLY. COORDINATE ON SITE LOCATION OF EMERGENCY 600V PANEL. REFER TO SITE PLAN FOR ELECTRICAL ROOM LOCATIONS.
- PROVIDE NETWORKED SYSTEM DUAL TECH CEILING OCCUPANCY SENSOR. OCCUPANCY SENSOR SHALL BE PART OF DIGITALLY ADDRESSABLE LIGHTING CONTROL SYSTEM, EXTENDED RANGE 380 DEGREES, REAR RJ-45 PORT, LOW VOLTAGE. THE ROOM SHALL HAVE MANUAL ON/AUTO OFF FUNCTIONALITY INTEGRATED WITH WALL DIMMER SWITCH.
- RELOCATE LIGHT FIXTURES. RELOCATE WIRING AS REQUIRED TO MAINTAIN CURRENT CORRIDOR LIGHTING CONTROLS FUNCTIONALITY.

