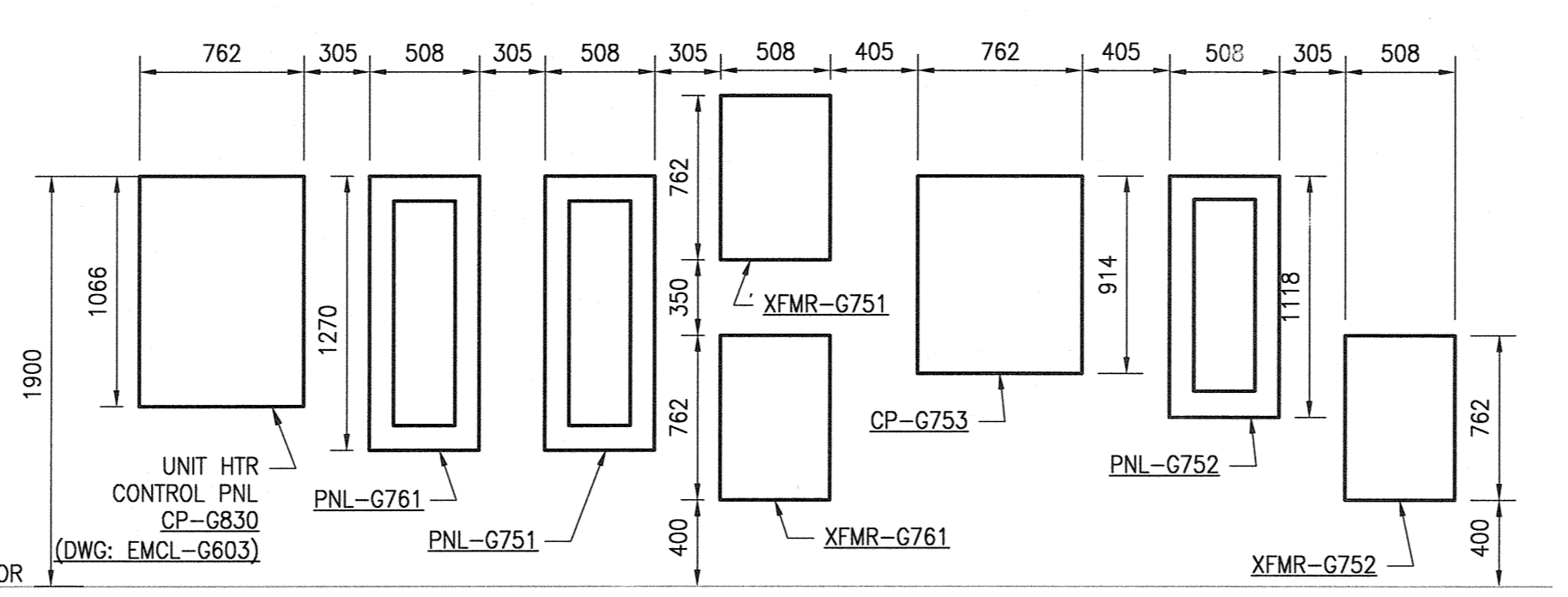


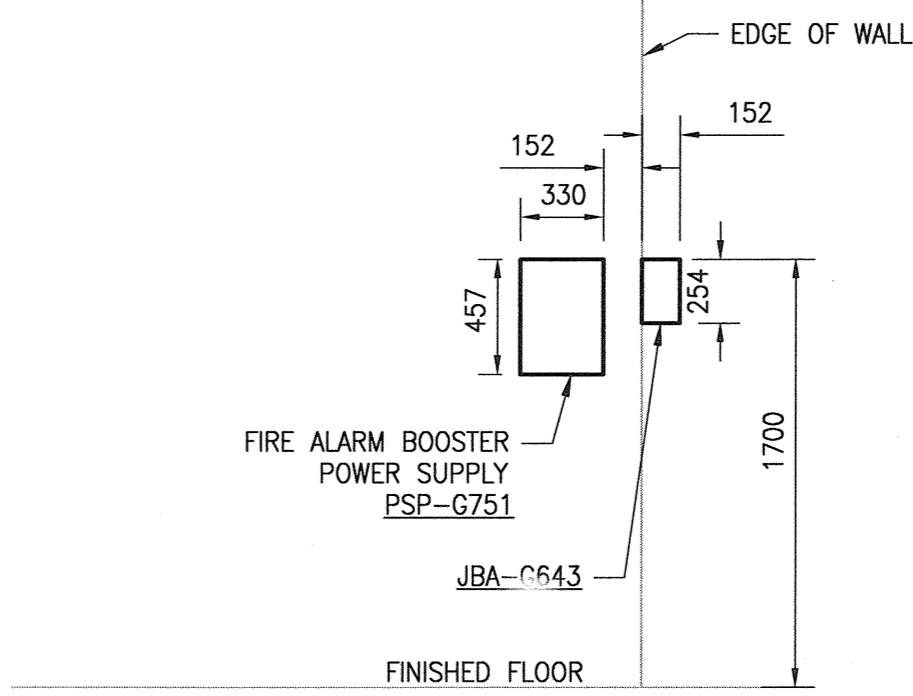
- GENERAL NOTES:**
1. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT SIZE OF ALL ELECTRICAL EQUIPMENT WITH THE VENDOR SHOP DRAWINGS AND THE CONCRETE SUBCONTRACTOR PRIOR TO POURING THE CONCRETE HOUSEKEEPING PADS.
 2. ALL WIRING ASSOCIATED WITH RECEPTACLES WILL BE RUN IN CONDUIT.
 3. THERE ARE STRUCTURAL EXPANSION JOINTS IN THE FACILITY (NOT SHOWN ON ELECTRICAL). PROVIDE EXPANSION COUPLINGS AND FITTINGS FOR ALL CONDUIT CROSSING THE JOINTS. DO NOT LOCATE RIGID DEVICES ACROSS OR ON TOP OF THE EXPANSION JOINTS.
 4. EQUIPMENT WITH NO CIRCUIT NUMBERS SHOWN ARE TO BE FED FROM THE 600VAC MCC. TYPICAL.
 5. ALL CONDUIT SHALL BE RIGID, THREADED ALUMINUM CONDUIT, EXCEPT FOR CONDUIT RUN WITHIN THE ELECTRICAL ROOM WHICH CAN BE EMT. THE ELECTRICAL ROOM IS NON-HAZARDOUS AND PRESSURIZED.
 6. TEST AND ADJUST THE AUDIBILITY OF THE PUBLIC ADDRESS SYSTEM TO BEST SUIT THE SPACE.
 7. FOR SYMBOL LEGEND, REFER TO DRAWING 1-0102-EDTL-A001.
 8. ALL ELECTRICAL DISTRIBUTION EQUIPMENT, INCLUDING 600VAC SWITCHGEAR, DRY TYPE TRANSFORMERS, PANELBOARDS, MCCs, HARMONICS FILTERS, UPS ARE TO BE SCHNEIDER ELECTRIC EQUIPMENT. PHYSICAL SIZES SHOWN ARE BASED ON SCHNEIDER EQUIPMENT.

- SPECIFIC NOTES:**
- 1 PROVIDE HOUSEKEEPING PAD 89mm HIGH, EXTEND 100mm ON EACH SIDE OF THE EQUIPMENT WITH 19mm CHAMFERED EDGES. PROVIDE REINFORCEMENT AND ANCHOR PAD TO FLOOR SLAB.
 - 2 PROVIDE CEILING MOUNTED SPEAKER ASSOCIATED WITH FACILITY PUBLIC ADDRESS SYSTEM. SPEAKER SHALL BE SURFACE MOUNTED COMPLETE WITH BACKBOX. MOUNT SPEAKER CLEAR OF INTERFERENCES. REFER TO DRAWING 1-0102-ESCH-G002 FOR SPEAKER AND BACKBOX MODEL. PROVIDE CABLING AND CONDUIT. CONNECT TO PUBLIC ADDRESS SYSTEM. REFER TO DRAWING EWG-A001.
 - 3 MOUNT TRANSFORMERS ON WALL. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED.
 - 4 RELOCATE THE EXISTING VFD (VFD-G103 ONLY) FOR RAW SEWAGE PUMP P-G103 (OLD TAG RSP-G103) TO THIS LOCATION.
 - 5 THE E.C SHALL ALLOW FOR UN-IMPEDED SPACE FOR FUTURE MCC EXTENSION OUT THIS SIDE OF THE MCCs. ANY CONDUITS FROM EDP-G755 AND EDP-G765 SHALL BE ROUTED UP AND OVER THIS SPACE.
 - 6 THE NETWORK ACCESS POINT (NAP-G912) DEVICE TO BE MOUNTED AT 150mm BELOW THE CEILING. PROVIDE DATA RECEPTACLE FOR NAP-G912 C/W CAT6 CABLING TO ADMIN NETWORKING PANEL NP-G906. PROVIDE UPS RECEPTACLE INSIDE OF CABINET.
 - 7 PROVIDE UNISTRUT SUPPORT BOLTED TO THE CEILING STRUCTURE ABOVE, AND FINISH FLOOR FOR MOUNTING OF PANELS EDP-G755 AND EDP-G765. THE TOP OF THE PANELS TO BE AT 1900mm ABOVE FLOOR FINISH.
 - 8 THE TOP OF PANELS TO BE 1700mm ABOVE FLOOR FINISH.
 - 9 PROVIDE POWER FROM ASSOCIATED CONDENSING UNIT IN CABLE SERVICE ROOM. REFER TO DWG. EWG-G005 FOR WIRING OF ACU-G641, ACU-G642 AND ACU-G643. REFER TO DWG. EGAD-G008 FOR LOCATIONS OF CU-G641, 642, 643.
 - 10 ENSURE DESIGNATED AREA (724mmx648mm) ADJACENT TO NP-G906 IS CLEAR TO ACCOMMODATE SWINGING OF NP-G906.
 - 11 OUTDOOR RECEPTACLE SWITCH. PROVIDE LAMACOID ABOVE SWITCH INDICATING CIRCUIT IDENTIFIER AND RECEPTACLE DESCRIPTION. RECEPTACLE DESCRIPTION WILL INDICATE "EXTERIOR RECEPTACLES".
 - 12 PROVIDE DATA RECEPTACLE C/W CAT6 CABLING TO AUTOMATION NETWORK SWITCH LOCATED IN NETWORK CABINET NP-G900. PROVIDE AND INSTALL RECEPTACLE FED FROM UPS POWER (CIRCUIT SHOWN ON DRAWING).
 - 13 PROVIDE ADMIN NETWORKING PANEL AND INSTALL DUPLEX RECEPTACLE INSIDE OF PANEL FED FROM UPS POWER (CIRCUIT SHOWN ON DWG). PROVIDE OM3 FIBRE PATCH CORDS WITH LC CONNECTORS IN CONDUIT FOR ADMIN AND SECURITY NETWORKS FROM PROCESS NETWORK PATCH PANEL TO ADMIN NETWORKING PANEL NP-G906.

GRIT/SCREENING ELECTRICAL ROOM G144
 SCALE: 1 : 30



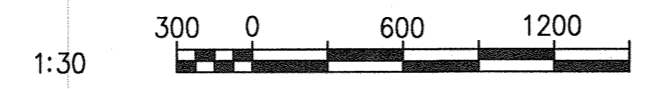
A PANELBOARD & XFMR ELEVATION
 SCALE: 1 : 30



B PANEL ELEVATION
 SCALE: 1 : 30

- 14 PROVIDE 200x200mm HOLES IN THE FLOOR BELOW THE MCC SECTIONS FOR CABLE ENTRY. TYPICAL.
- 15 PROVIDE 200x457 HOLES IN THE FLOOR BELOW THE MCC MAIN BREAKER SECTION FOR CABLE ENTRY.
- 16 INSTALL FIRESTOPPING SYSTEM THAT MEETS THE REQUIREMENTS OF ULC STANDARD CAN/ULC-S115 AFTER CABLE INSTALLATION.

REFERENCE DRAWINGS	DESCRIPTION
1-0102-EGRD-G001	GROUNDING - GRIT AND SCREENINGS BUILDING RISER DIAGRAM
1-0102-ESLD-G006	SINGLE LINE DIAGRAM, MCC-G770 & MCC-G780
1-0102-ESLD-G005	SINGLE LINE DIAGRAM, MCC-G760
1-0102-ESLD-G004	SINGLE LINE DIAGRAM, MCC-G750
1-0102-ESCH-G002	PANEL SCHEDULES
1-0102-EAAA-A001	ELECTRICAL LEGEND AND DETAILS



CH2MHILL		KCS GROUP	
DESIGNED BY: K. OOI/S. JUGANAS	CHECKED BY: E. RYCZKOWSKI	ENGINEER'S SEAL	
DRAWN BY: M.J. PERSSON	APPROVED BY: D. BECKER		
SCALE: 1:30	ISSUED FOR CONSTRUCTION BY: J. SHUMKA		
DATE: 2014/04/24	DATE: 2017/04/05	CONSULTANT NO.: 474248	
01 ISSUED FOR ADDENDUM 1 - 976-2016	2017/05/26	SLJ	DEB
00 ISSUED FOR CONSTRUCTION - 976-2016	2017/04/05	SLJ	DEB
NO. REVISIONS	DATE	DESIGN	CHECK

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
 SEWPPC UPGRADING/EXPANSION PROJECT
 ELECTRICAL - POWER LAYOUT
 HEADWORKS AREA - GRIT AND SCREENINGS BUILDING
 ELECTRICAL ROOM

CITY DRAWING NUMBER: 1-0102-EGAD-G002 SHEET: 001 REV: 01 SIZE: A1