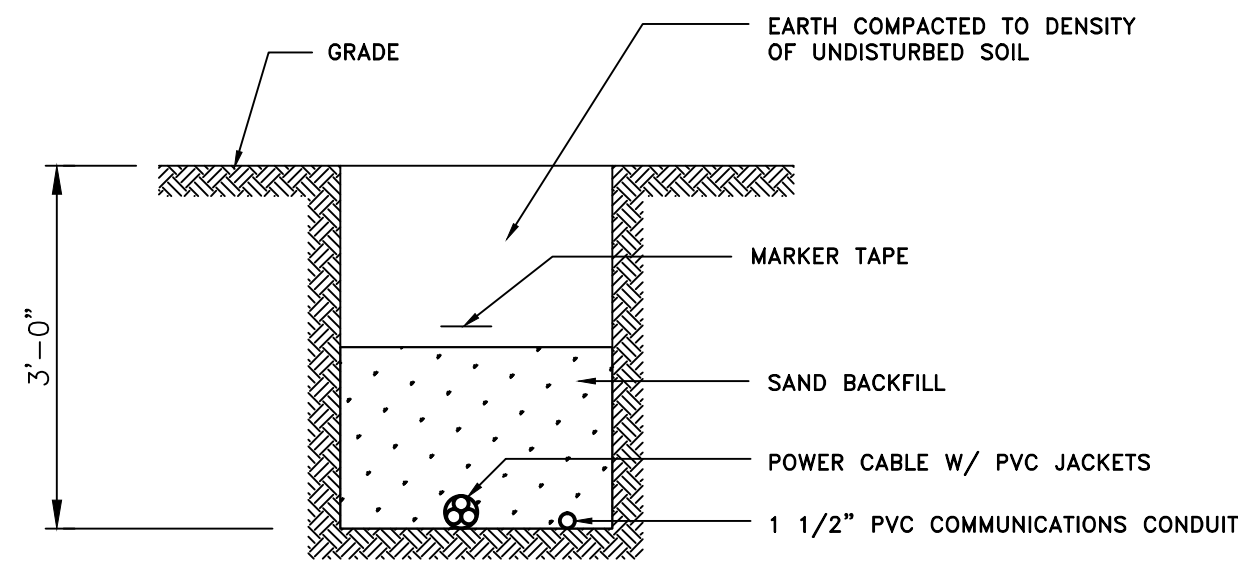
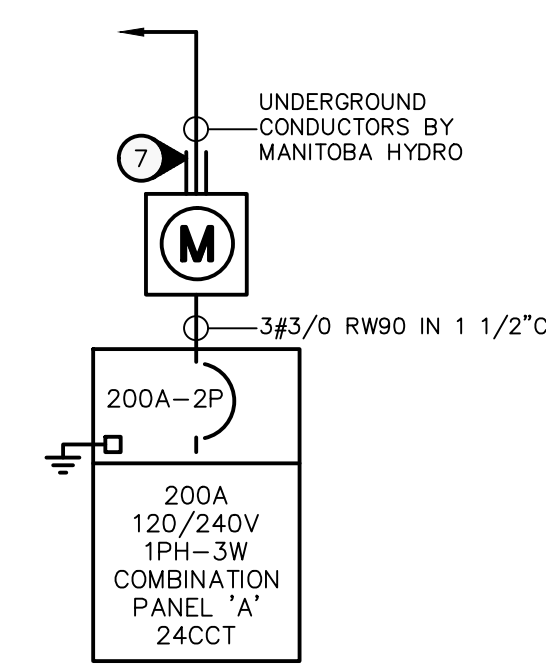


ELECTRICAL SPECIFICATION

- Scope of Work - The contract shall include the furnishing of labour, new material, equipment and services necessary and reasonably implied and incidental to the complete installation of the electrical work shown on the plans and specifications. Supply and install all devices required for the complete approved system, operating to the complete satisfaction of the Contact Administrator.
- Laws, Rules, Ordinances and Inspections - The entire electrical installation shall comply with the latest edition of the Canadian Electrical Code and with all provincial and municipal laws; rules and ordinances. Prepare and submit to the proper authorities all necessary permits and pay all permit fees.
- Electrical work shall be completed in conformance with, and subject to, all cautionary notes available to the reader including those available on the websites of the manufacturers and Contact Administrator.
- Drawings - The Electrical Subcontractor shall carefully examine all drawings relating to the work, to be certain that the work under this contract can be carried out and, prior to the submission of his tender, report at once to the Contact Administrator any defect, discrepancy, omission or interference affecting the work of this section or the guarantee of same.
- Responsibility - Be responsible for any damage caused the owners or their contractors by improperly carrying out this contract.
- Identification - Install designatory lettering on all electrical equipment.
- Guarantee - The Electrical Subcontractor shall guarantee the satisfactory operation of all work and apparatus included and installed under this section for a period of twelve(12) calendar months after the final acceptance of the complete building.
- Existing Work - The Electrical Subcontractor shall take into account items which he/she is responsible for due to the changes and alterations to the existing building and allow for such items that may occur in his/her tendered price.
- Minimum wire size #12 AWG all wiring to be copper.
- Unless otherwise instructed in writing, conceal all wiring.
- Coordinate final location of electrical devices with architectural.



POWER AND TELEPHONE TRENCH DETAIL
SCALE: N.T.S



SINGLE LINE DIAGRAM
SCALE: N.T.S

* SIZE CIRCUIT BREAKER AND WIRING ACCORDING TO THE FINAL NAMEPLATE RATING ON THE EQUIPMENT.

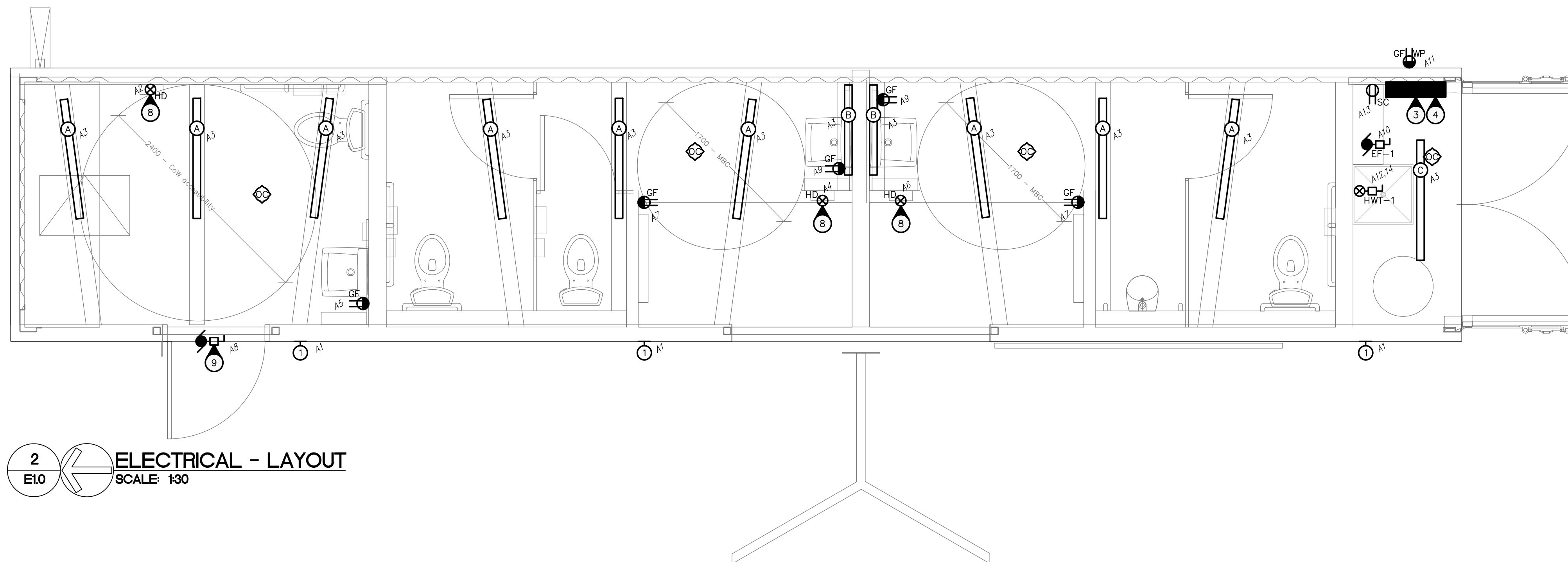
NOTE: DASHED INDICATES EXISTING.



1
E10 **ELECTRICAL - SITE PLAN**
SCALE: 1" = 20'-0"

SPECIFIC ELECTRICAL NOTES

- EXISTING HYDRO POLE C/W SINGLE PHASE 15KVA TRANSFORMER.
- COORDINATE ANY ELECTRICAL WORK REQUIRED FOR THE DEMOLITION WITH MANITOBA HYDRO. COMPLETE ANY WORK DIRECTED BY THE UTILITY. PHASE THE DISCONNECTION OF THE EXISTING WASHROOM SERVICE TO COORDINATE WITH THE CONNECTION OF NEW WASHROOM SERVICE.
- APPROXIMATE LOCATION OF RELOCATED UTILITY METER. SUPPLY AND INSTALL METER SOCKET.
- APPROXIMATE LOCATION OF PANEL 'A'.
- FEED A NEW 200A-120/240V-1PH-3W PANEL FROM EXISTING UTILITY POLE. RUN 3#3/0 TECK UNDERGROUND AND INTALL 1 1/2" PVC COMMUNICATIONS CONDUIT. COORDINATE EXACT REQUIREMENTS WITH MANTOBA HYDRO. REFER TO TRENCH DETAIL.
- RECONNECT EXISTING SHELTER RECEPTACLES TO NEW PANEL 'A'. PROVIDE EXCAVATION AND TRENCHING AS REQUIRED. EXTEND/REROUTE WIRING AS REQUIRED.
- 2" PVC TO 3' BELOW GRADE FROM WEATHER PROOF METER SOCKET.
- PROVIDE 120V POWER SUPPLY FOR XLERATOR HAND DRYER (120V-PH, 12.5A) AS REQUIRED. MODEL #XL-BW-120.
- WIRE AND CONNECT HANDICAPPED DOOR OPERATOR AND ALL ASSOCIATED CONTROLS AS REQUIRED. CONFIRM REQUIREMENTS ON SITE.



2
E10 **ELECTRICAL - LAYOUT**
SCALE: 1/32" = 1'-0"

SYMBOL SCHEDULE

- Linear luminaire, 'B1-a' denotes panel circuit # and switch.
- Wall mounted luminaire. 'A' denotes type.
- Ceiling mounted occupancy sensor. 'W' indicates wall mounted. Auto on/off unless otherwise indicated. Sensorswitch.
- Photocell.
- Duplex receptacle.
- Duplex receptacle weather proof.
- Duplex receptacle on separate circuit. Provide lamacoid label indicating "SC".
- Ground fault duplex receptacle.
- Motor. Refer to mechanical for exact location. For roof mounted equipment, supply and install wire and connect a separate circuit GFI receptacle in accordance with C.E.C. rule 26-704.
- Disconnect switch to suit application. By electrical contractor.
- Junction box.
- XLERATOR hand dryer (120V-PH, 1.4KW).

MOTOR SCHEDULE

NO.	DESCRIPTION	LOCATION	VOLTAGE	HP/W/MCA	C.B.	COND.	STARTER	NOTES
EF-1	EXHAUST FAN	SERVICE CORRIDOR	120V-1PH	1.2 A	15A-1P	#12	TIMECLOCK	1,3
HWT-1	HOT WATER TANK	SERVICE CORRIDOR	240V-1PH	3 KW	20A-2P	#12	-	1

- SPECIFIC NOTES**
- WIRE AND CONNECT AS REQUIRED. REFER TO MECHANICAL.
 - MANUAL STARTER BY ELECTRICAL.
 - TIMECLOCK BY MECHANICAL. WIRED BY ELECTRICAL.
 - WIRE ALL CONTROL ALARMS AS REQUIRED (SEE MECHANICAL).

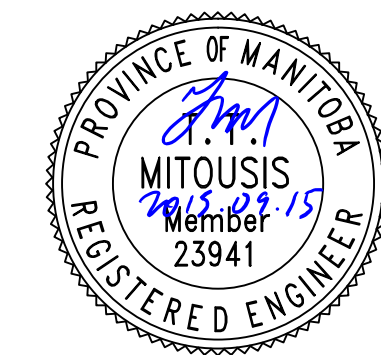
- GENERAL NOTES**
- MANUAL STARTERS TO BE C/W OVERCURRENT PROTECTION.
 - ALL DISCONNECT SWITCHES TO BE SUPPLIED BY DIV. 16
 - ELECTRICAL CONTRACTOR TO PROVIDE CIRCUIT BREAKERS AND WIRING ACCORDING TO THE FINAL NAMEPLATES OF ALL THE MECHANICAL EQUIPMENT.
 - ALL LOW VOLTAGE CONTROL WIRING BY DIV. 15.
 - ALL LINE VOLTAGE CONTROL WIRING BY DIV. 16 - REFER TO MECHANICAL SECTION. CO-ORDINATE EXACT REQUIREMENTS WITH DIV. 15.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	CATALOG NUMBER	LAMPS
A	4' FLUORESCENT LUMINAIRE	WITHIN COVE	LITHONIA Z-232-120-GE10IS-CSA	2-32W T8
B	3' FLUORESCENT LUMINAIRE	WITHIN COVE	LITHONIA Z-225-120-GE10IS-CSA	2-25W T8
C	4' FLUORESCENT STRIP C/W WIRE GUARD	SURFACE	LITHONIA Z-232-120-GE10IS-CSA-WG248	2-32W T8
1	EXTERIOR WALL PACK	SURFACE, VERTICALLY	RAB VXR	LED

- LUMINAIRE SCHEDULE NOTES:**
- ALL FLUORESCENT BALLAST TO BE ELECTRONIC. MB HYDRO "POWER SMART" APPROVED.
 - ALL FLUORESCENT LAMPS TO BE 3500K & 85 CRI, UNLESS OTHERWISE NOTED.
 - PROVIDE PHOTOCCELL CONTROL FOR ALL OUTDOOR LUMINAIRES.
 - COORDINATE FINAL LOCATION OF LUMINAIRES WITH ARCHITECTURAL.

DESCRIPTION	BKR	CIRCUIT	BKR	DESCRIPTION	PANEL 'A'	
					MOUNTING LOCATION	SURFACE MECH ROOM
EXTERIOR LIGHTING	15	1	2	HAND DRYER	VOLTAGE 120/240V-1PH-3W	MAIN BUS 200A
LIGHTING	15	3	4	HAND DRYER	REMARKS -	
GF RECEPTACLE	15	5	6	HAND DRYER		
GF RECEPTACLE	15	7	8	DOOR OPERATOR		
GF RECEPTACLE	15	9	10	EF-1		
GF RECEPTACLE	15	11	12	HWT-1		
SC RECEPTACLE	15	13	14	SPACE		
SPARE	15	15	16	SPACE		
SPARE	15	17	18	SPACE		
SPARE	15	19	20	SPACE		
SPARE	15	21	22	SPACE		
SPARE	15	23	24	SPACE		



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No. Date Revision Notes
1 2015.09.15 ISSUED FOR CONSTRUCTION

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Project
St. Vital Park Washrooms

Drawing
ELECTRICAL LAYOUTS

Drawn By
K.C.
Scale
As Noted
Reviewed By
T.M.
Drawing No.
E1.0

Date 2015.09.15
Project No. 1445
Revision No. 0