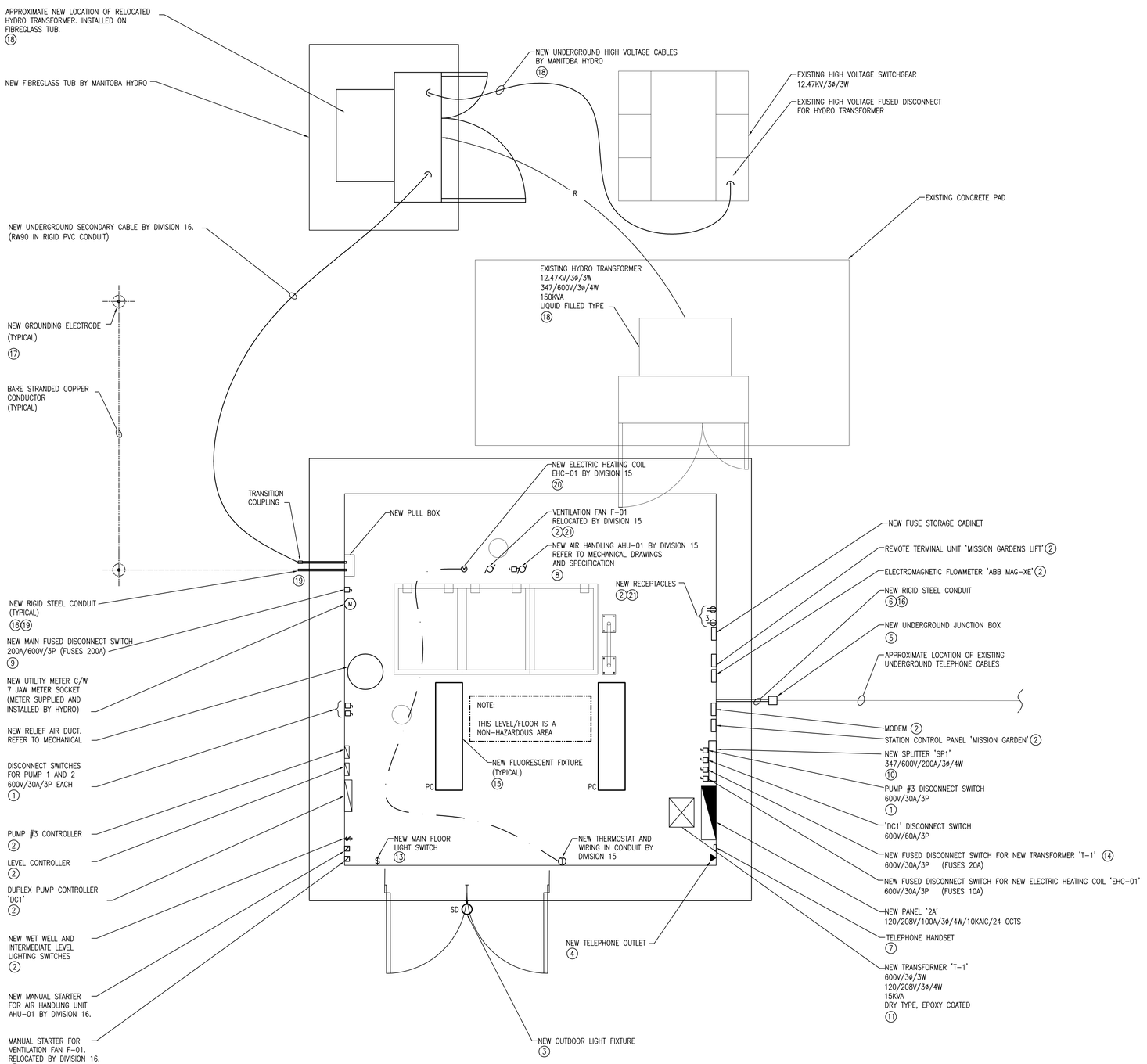

1 E3.0 MAIN FLOOR PLAN - NEW CONSTRUCTION (12)
SCALE: 1:25

GENERAL NOTES

1. PROVIDE TOTALLY NEW WIRING AND ACCESSORIES SUCH AS CONNECTORS, CONDUITS, FITTINGS, JUNCTION BOXES, ELBOWS, ETC. FOR NEW AND EXISTING RELOCATED EQUIPMENT.
2. NEW CABLES, CONNECTORS, CONDUITS, FITTINGS, JUNCTION BOXES, ELBOWS, ETC. THAT ARE USED IN THE WET WELL AND THE INTERMEDIATE LEVEL SHALL BE APPROVED FOR USE IN EXPLOSION HAZARDOUS AREA CLASS 1, ZONE 1, GROUP IIA AND CORROSION CATEGORY 2. TRANSITION OF THE WIRING FROM INTERMEDIATE LEVEL TO THE MAIN FLOOR SHALL BE AS PER DRAWING 4, DETAIL 2.
3. NEW WIRING SHALL BE OF THE SAME CONDUCTOR SIZE, SAME CONFIGURATION (NUMBER OF CONDUCTORS PER CABLE/CONDUIT) AND INSULATION LEVEL AS THE ORIGINAL REMOVED WIRING UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL DETERMINE ON SITE THE SIZE AND THE TYPE OF THE ORIGINAL WIRING THAT IS GOING TO BE REPLACED PRIOR TO REMOVAL.
4. THOROUGHLY EXAMINE EXISTING ELECTRICAL EQUIPMENT AND WIRING. REPORT ANY ELECTRICAL CODE ISSUES AND DAMAGE WITH THE WIRING AND THE EXISTING ELECTRICAL EQUIPMENT TO THE CONTRACT ADMINISTRATOR.
5. REWIRE NEW OR RELOCATED EQUIPMENT TO THE SAME CIRCUIT OR ELECTRICAL EQUIPMENT AS IN ORIGINAL INSTALLATION.

DRAWING NOTES (#)

1. EXTEND EXISTING SALVAGED WIRING AND RE-WIRE EXISTING PUMP AS REQUIRED. SEE DRAWING E4.0.
2. REWIRE TO MATCH EXISTING.
3. PROVIDE NEW LIGHT FIXTURE. WIRE TO SAME CIRCUIT AS MAIN FLOOR FLUORESCENT LIGHTING.
4. PROVIDE NEW TELEPHONE OUTLET. WIRE NEW TELEPHONE OUTLET TO THE EXISTING UNDERGROUND TELEPHONE CABLE.
5. PROVIDE NEW UNDERGROUND JUNCTION BOX TO CONNECT RELOCATED TELEPHONE EQUIPMENT (TELEPHONE HANDSET AND OUTLET) TO THE EXISTING UNDERGROUND TELEPHONE WIRING.
6. NEW RIGID STEEL CONDUIT FOR TELEPHONE SHALL RISE UP OUTSIDE BUILDING AND ENTER BUILDING ABOVE GROUND. EXACT LOCATION OF ENTRANCE INTO BUILDING TO BE DETERMINED ON SITE.
7. RELOCATE EXISTING TELEPHONE HANDSET. WIRE TO THE EXISTING UNDERGROUND TELEPHONE CABLE. PROVIDE NEW WIRING AS REQUIRED.
8. PROVIDE NEW WIRING. REFER TO SINGLE LINE DIAGRAM.
9. REPLACE EXISTING MAIN DISCONNECT SWITCH WITH NEW SERVICE ENTRANCE RATED FUSIBLE DISCONNECT SWITCH.
10. REPLACE EXISTING REMOVED SPLITTER 'SP1' WITH NEW SPLITTER 'SP1'. TEMPORARILY FEED EXISTING SPLITTER 'SP-1' DURING CONSTRUCTION.
11. REPLACE EXISTING REMOVED TRANSFORMER 'T-1' WITH NEW TRANSFORMER 'T-1' AND INSTALL ON WALL BESIDE PANEL '2A'.
12. ALL ELECTRICAL EQUIPMENT SHOWN IS EXISTING TO BE RELOCATED AT LOCATIONS AS SHOWN ON DRAWING UNLESS OTHERWISE NOTED.
13. WIRE TO NEW FLUORESCENT FIXTURE.
14. REPLACE EXISTING REMOVED TRANSFORMER 'T-1' DISCONNECT SWITCH WITH NEW FUSED DISCONNECT.
15. PROVIDE NEW LIGHT FIXTURE (TYPE PC). PROVIDE NEW 15A-1P BREAKER IN PANEL '2A' FOR MAIN FLOOR LIGHTING.
16. SEAL AROUND CONDUIT AND INSIDE TO PREVENT ENTRANCE OF MOISTURE AND VERMIN INTO BUILDING.
17. SPACE ELECTRODES MINIMUM 6 METERS APART. EACH ELECTRODE SHALL BE A MINIMUM 6 METERS LONG. TOP END OF THE ELECTRODE SHALL BE APPROXIMATELY 0.3M BELOW GRADE. INSTALL ROD ELECTRODES PERPENDICULAR TO THE SURFACE.
18. MANITOBA HYDRO TO INSTALL NEW PRIMARY UNDERGROUND CABLES AND TO RELOCATE EXISTING HYDRO TRANSFORMER ON NEW FIBREGLASS TUB.
19. NEW CONDUITS SHALL RISE UP ABOVE GROUND OUTSIDE BUILDING WALL AND ENTER BUILDING AT HIGH LEVEL. EXPOSED VERTICAL CONDUITS FOR SECONDARY AND GROUNDING CONDUCTORS SHALL BE RIGID STEEL. PROVIDE TRANSITION COUPLING FROM RIGID PVC TO RIGID STEEL AS REQUIRED.
20. NEW ELECTRIC HEATING COIL INSTALLED IN DUCTWORK BY DIVISION 15. DIVISION 16 TO WIRE HEATING COIL. REFER TO SINGLE LINE DIAGRAM AND MECHANICAL DRAWINGS. COORDINATE INSTALLATION WITH DIVISION 15.
21. PROVIDE NEW BREAKER IN PANEL '2A' OF THE SAME SIZE AND TYPE AS EXISTING BREAKER.

NOTE:

SITE SERVICES SHOWN ARE FOR INFORMATION PURPOSES ONLY. THE SERVICES SHOWN ARE APPROXIMATE AND MAY NOT BE ACCURATE. CONTRACTOR TO VERIFY ON SITE ALL LOCATIONS THAT MAY AFFECT SCOPE OF WORK. USE "SOFT-DIG" TECHNIQUES WHEN WORKING AROUND EXISTING SERVICES TO MITIGATE THE POSSIBILITY OF DAMAGE. REPLACE ANY EXISTING SERVICES THAT THIS CONTRACTOR DAMAGES.

APEGM
Certificate of Authorization
SMS Engineering Ltd.
No. 166 Expiry: April 30, 2009

G.B.M. ELEV.

No.	REVISIONS	DATE	BY
4	HYDRO CHARGES DELETED	15.04.09	BDL
3	ISSUED FOR BID OPPORTUNITY (REV)	31.03.09	SB
2	ISSUED FOR BID OPPORTUNITY	27.03.09	SB
1	ISSUED FOR 99% OWNER REVIEW	24.02.09	SB

SMS ENGINEERING
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sms@smseng.com

07-213-01

DESIGNED BY	SB	CHECKED BY	SB
DRAWN BY	IN	APPROVED BY	BDL
HOR. SCALE	AS NOTED	RELEASED FOR CONSTRUCTION	
VERT. SCALE	AS NOTED	SIGNED BY: K.ZUREK	
DATE	MARCH 2009	DATE	MARCH 27, 2009

ENGINEER'S SEAL
ORIGINAL CONTRACT DRAWING SIGNED AND SEALED BY S. BLAZEVSKI, P. ENG. MARCH 31, 2009

BID OPPORTUNITY # : 901-2008
PLOT DATE : MARCH 27, 2009

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

REHABILITATION OF BOURNAIS WASTEWATER PUMPING STATION
MAIN FLOOR PLAN ELECTRICAL
NEW CONSTRUCTION

CONSULTANT ACAD DWG. No.: E3.0
SHEET 9 OF 14
CITY DWG. NO. 8754