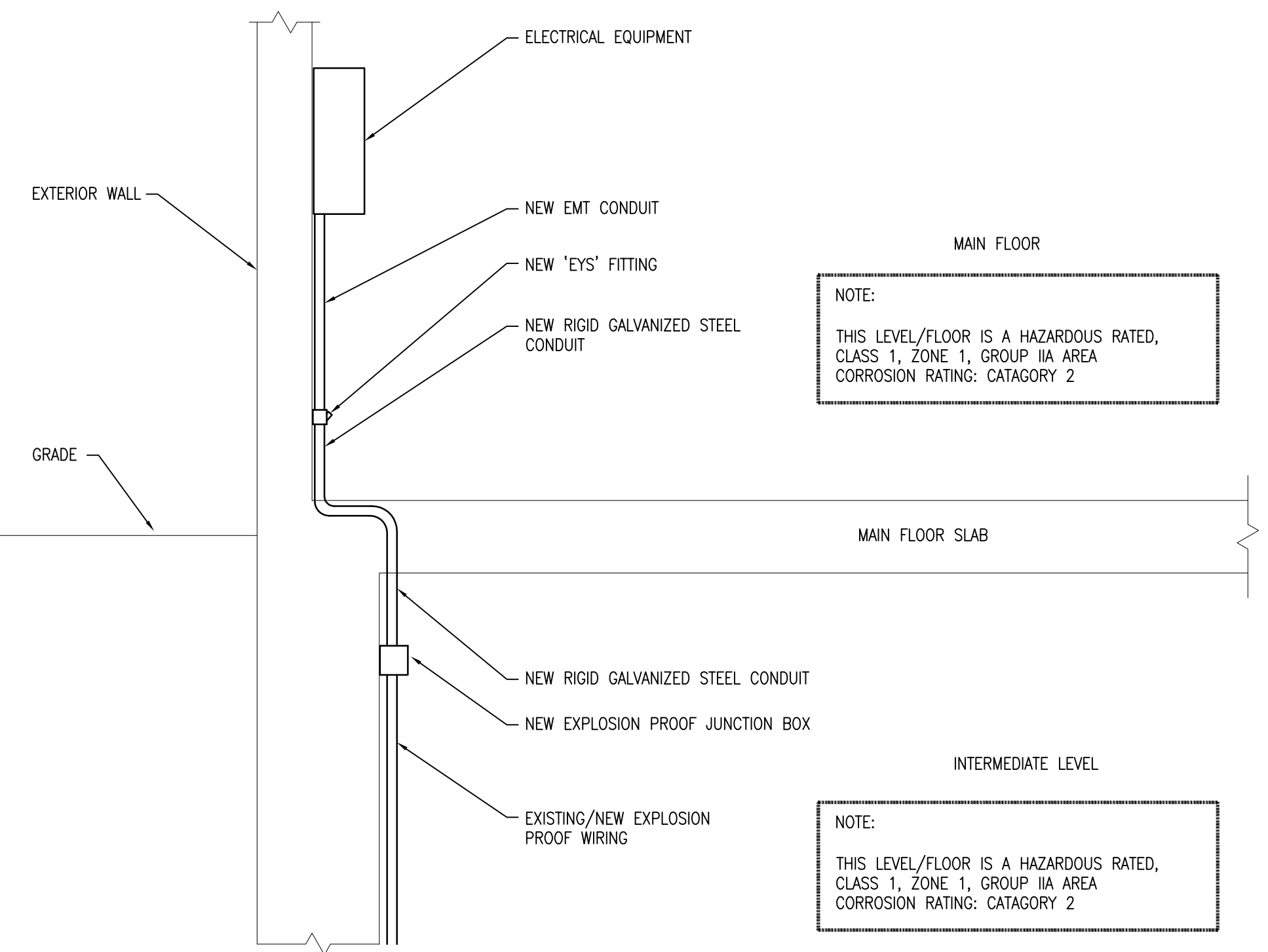


GENERAL NOTES

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 E4.0, 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. EXISTING EQUIPMENT TO BE RETAINED AND RE-USED. RELOCATE AS REQUIRED AFTER NEW STRUCTURE IS BUILT.
2. PROVIDE NEW EXPLOSION PROOF JUNCTION BOXES IMMEDIATELY BELOW MAIN FLOOR SLAB (ON THE WALL OF INTERMEDIATE LEVEL). RUN WIRE IN RIGID STEEL CONDUIT THROUGH THE SLAB. CHIP FLOOR SLAB IN ORDER TO BEND CONDUIT AND RUN TO THE WALL. SEAL AT FLOOR AROUND CONDUIT. PROVIDE 'EYS' FITTING AT 6" ABOVE MAIN FLOOR SLAB. SEE DETAIL 2 ON THIS DRAWING.
3. REPLACE EXISTING CABLES.
4. OPEN NUMBER.
5. PROVIDE ONE 15A-1P BREAKER IN PANEL '2A' FOR AHU-01.
6. FAULT LEVEL AT MAIN DISCONNECT SWITCH: 14.4KA 3 PHASE RMS SYMMETRICAL.
7. RE-WIRE EXISTING RE-USED LOADS TO NEW PANEL AS REQUIRED. PROVIDE NEW BREAKERS OF THE SAME SIZE AND TYPE UNLESS OTHERWISE NOTED. CONTRACTOR TO DETERMINE BREAKER SIZE, TYPE AND QUANTITY ON WALKTHROUGH.
8. CONNECT BUILDING STRUCTURAL STEEL AND METAL WORK TO GROUND BY WELDING COPPER TO STEEL.



1 ELECTRICAL SINGLE LINE DIAGRAM
SCALE: NTS

2 TYPICAL WIRING TRANSITION FROM INTERMEDIATE LEVEL TO MAIN FLOOR
SCALE: NTS

No.	REVISIONS	DATE	BY	DATE	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				
				MARCH 2009			
				MARCH 27, 2009			

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THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

REHABILITATION OF BOURNAIS WASTEWATER PUMPING STATION
 ELECTRICAL SINGLE LINE DIAGRAM AND DETAIL

CONSULTANT ACAD DWG. No.: **E4.0**
 SHEET **10** OF **14**
 CITY DWG. NO. **8755**

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

