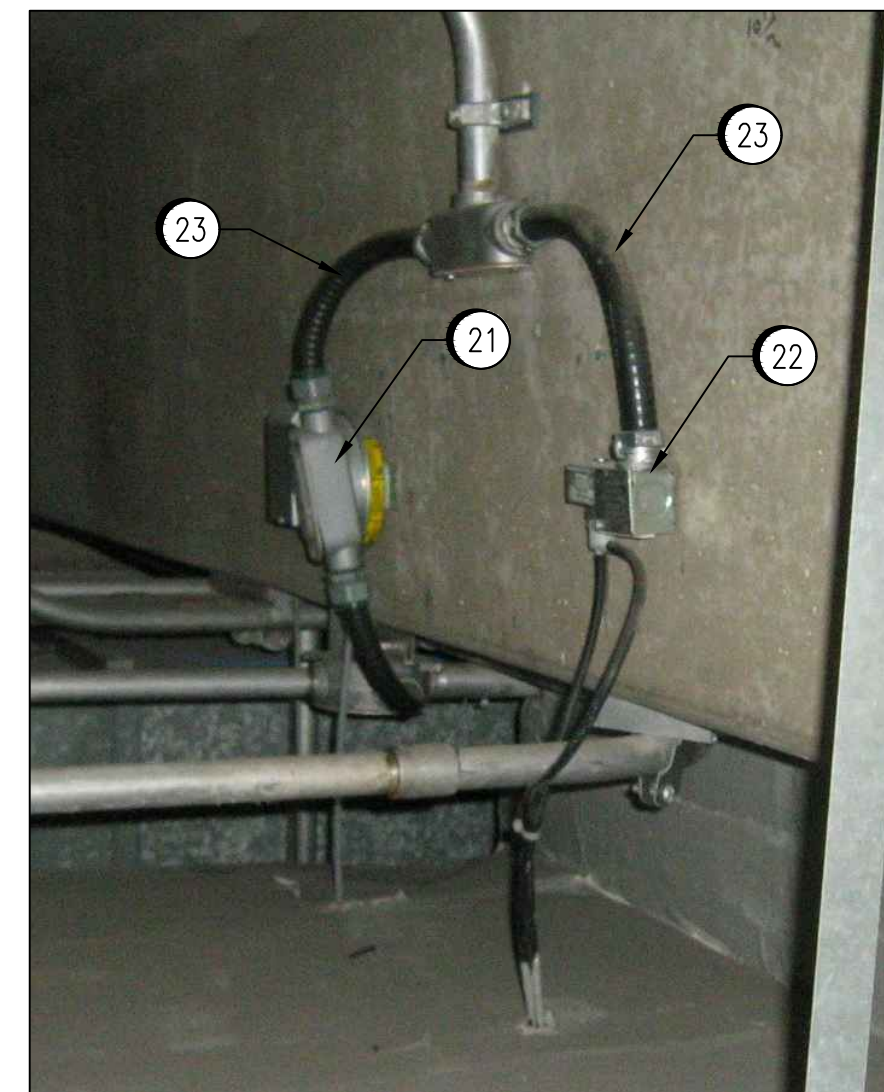


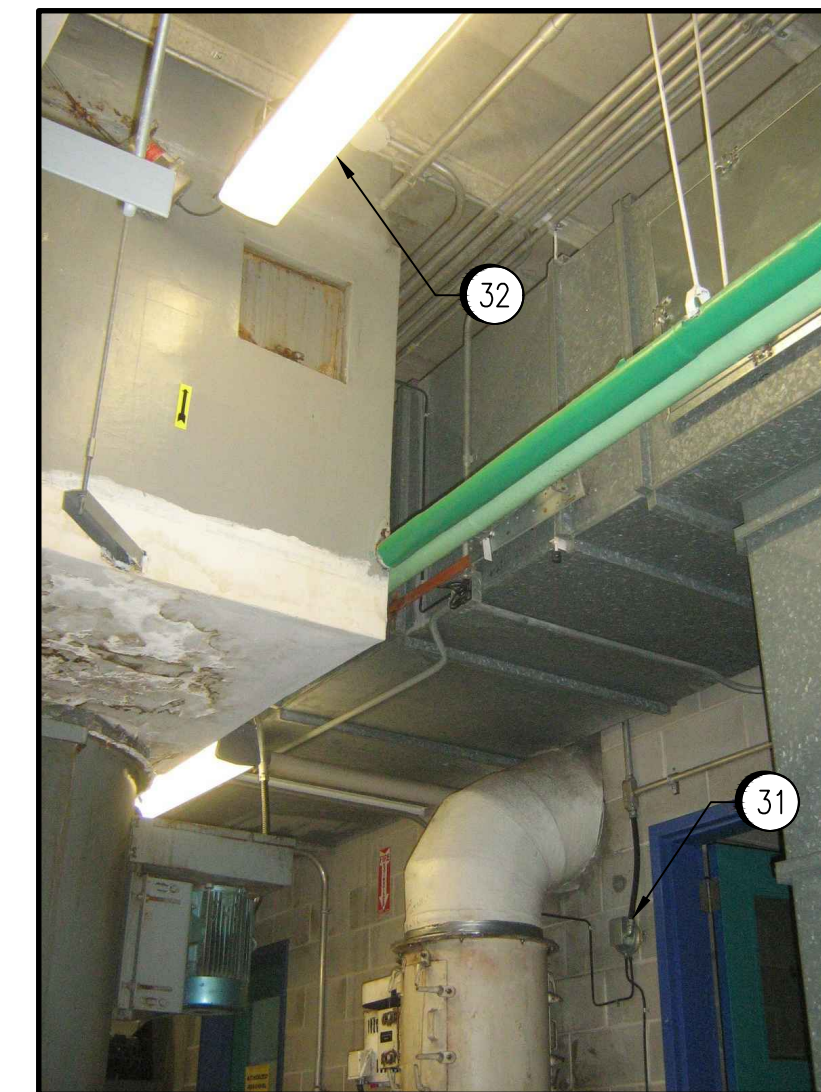
1 DETAIL  
SCALE NTS

- 11 EXISTING LOS SWITCHES TO BE REPLACED UNDER A DIFFERENT PROJECT.
- 12 RELOCATE EXISTING LUMINAIRE OUTSIDE OF THE HAZARDOUS AREA. MOUNT UNDERNEATH DUCTWORK IN LOCATION SHOWN. FEED LUMINAIRE FROM CONDUIT OUTSIDE OF HAZARDOUS AREA.



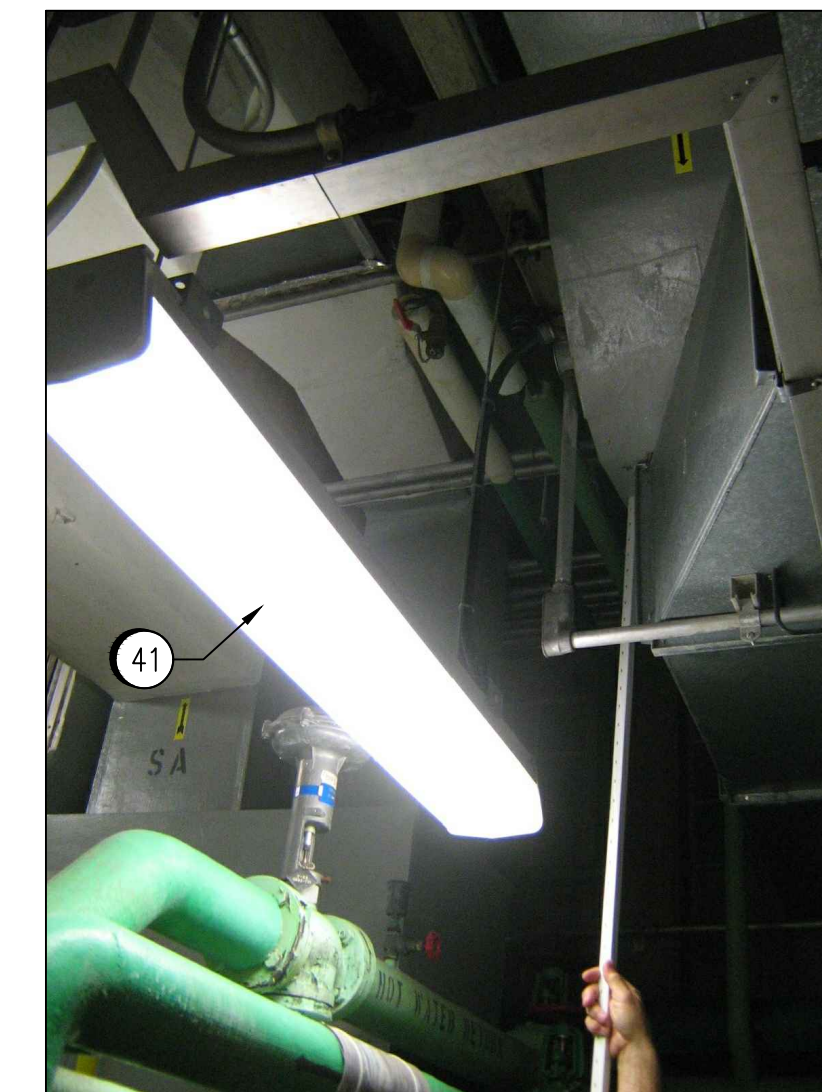
2 DETAIL  
SCALE NTS

- 21 EXISTING PRESSURE SWITCH TO BE REPLACED UNDER A DIFFERENT PROJECT.
- 22 EXISTING E/P DEVICES ARE SUITABLE FOR CLASS I, ZONE 2 LOCATION.
- 23 REPLACE ALL FLEXIBLE CONDUIT WITH RIGID CONDUIT.



3 DETAIL  
SCALE NTS

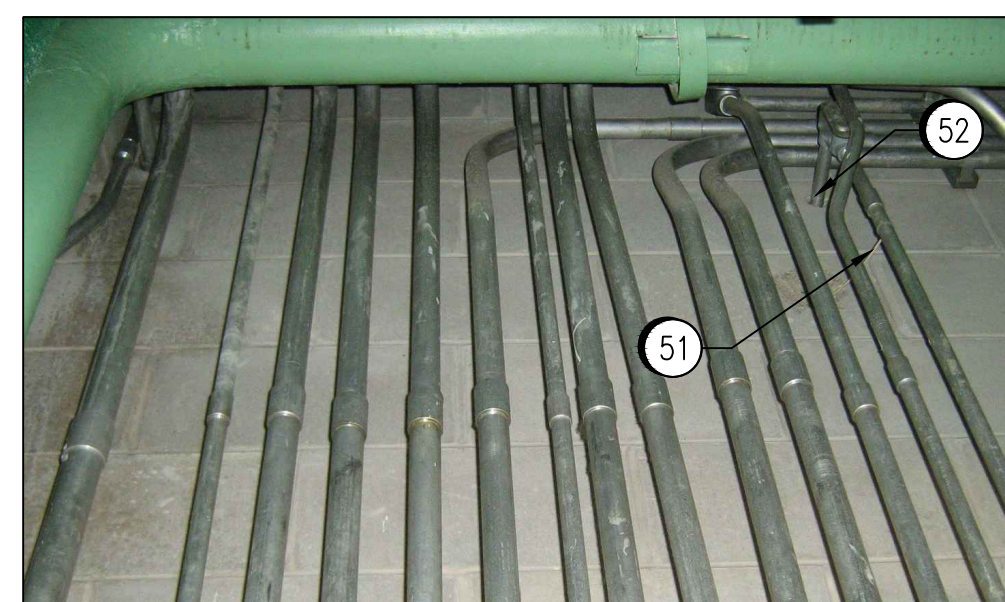
- 31 EXISTING PRESSURE SWITCH TO BE REPLACED UNDER A DIFFERENT PROJECT.
- 32 RELOCATE EXISTING LUMINAIRE OUTSIDE OF THE HAZARDOUS AREA. MOUNT AT SAME HEIGHT AS EXISTING LUMINAIRE. RUN CONDUIT FROM EXISTING JUNCTION BOX TO NEW LOCATION. INSTALL EYS SEAL IN NEW CONDUIT.



4 DETAIL  
SCALE NTS

- 41 REPLACE EXISTING LUMINAIRE WITH HAZARDOUS RATED LUMINAIRE AT SAME HEIGHT. USE UNISTRUT SUPPORTS TO MOUNT LUMINAIRE. PENDANT MOUNTING IS NOT ACCEPTABLE.

SPECIFIC NOTES	
1	INSTALL DUCT SEAL IN EXISTING CONDUIT AT THE FIRST CONDUIT BODY OR JUNCTION BOX WITHIN THE HAZARDOUS AREA (ESTIMATED NUMBER OF LOCATIONS: 20).
2	REPLACE EXISTING LUMINAIRE WITH HAZARD RATED LUMINAIRE AT SAME HEIGHT. USE UNISTRUT SUPPORTS TO MOUNT LUMINAIRE. PENDANT MOUNTING IS NOT ACCEPTABLE.



5 DETAIL  
SCALE NTS

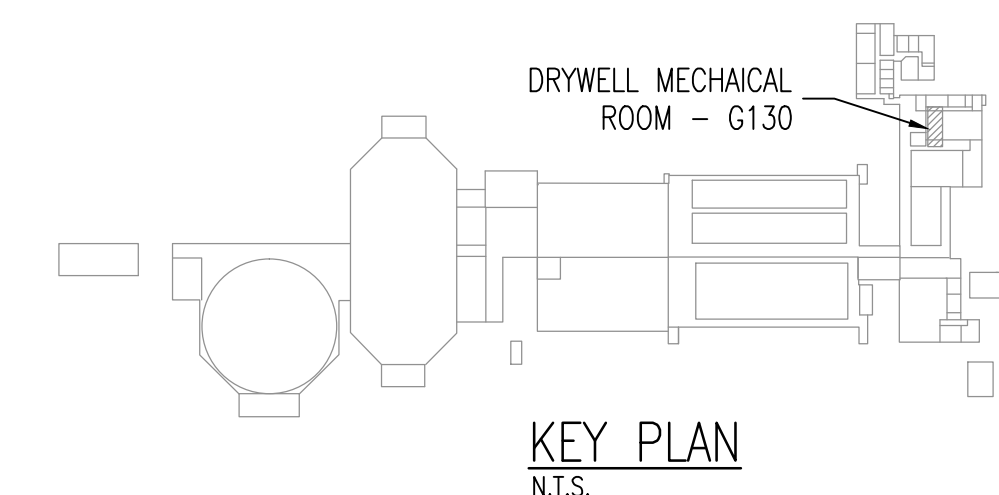
- 51 CORE NEW HOLE IN WALL BELOW EXISTING HOLE FOR ELEVATOR TELEPHONE CABLE SO IT IS OUTSIDE OF HAZARDOUS AREA 900mm FROM WET WELL EXHAUST DUCT. INSTALL CONDUIT FOR THE TELEPHONE CABLE FROM THE DRY WELL MECHANICAL ROOM, THROUGH THE HOLE IN THE WALL, TO THE ELEVATOR CONTROL PANEL IN THE ELEVATOR ROOM.
- 52 FIRE STOP EXISTING CONDUIT OPENINGS IN WALL TO MAKE AIR TIGHT.

GENERAL NOTES:

1. DRAWING AND PHOTOGRAPHS SHOW EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT AND DEVICES. LOCATIONS INDICATED ARE APPROXIMATE.
2. REUSE OF EXISTING CONDUIT AND WIRING FOR NEW DEVICES IS ACCEPTABLE UNLESS OTHERWISE NOTED.
3. PLAN AND SCHEDULE WORK TO MINIMIZE OUTAGES. SCHEDULE ALL SHUTDOWNS WITH PLANT OPERATIONS. REFER TO SPECIFICATIONS FOR DETAILS.

CANADIAN ELECTRICAL CODE NOTES:

1. AREA WITHIN 900mm OF THE WET WELL EXHAUST FANS AND DUCTWORK IS CLASSIFIED AS HAZARDOUS CLASS I, ZONE 2, GROUP IIA. REFER TO DRAWING 1-0102G-E0016.
2. SUPPLY AND INSTALL NEW DEVICES AND CONDUIT TO MEET REQUIREMENTS FOR THE AREA CLASSIFICATION.
3. INSTALLATION TO BE COMPLIANT WITH CEC REQUIREMENTS FOR THE AREA CLASSIFICATION, EXCEPT:  
(a) CONDUIT SEALS ARE NOT REQUIRED ON EXISTING CONDUITS PASSING FROM CLASS I ZONE 2 AREAS TO UNCLASSIFIED AREAS, REF CEC 18-158(a).
4. DO NOT INSTALL ANY NEW WIRING IN EXISTING CONDUITS. ALL NEW WIRING TO BE INSTALLED IN NEW CONDUITS TO MEET CEC REQUIREMENTS, INCLUDING SEALS WHEN PASSING FROM CLASSIFIED AREAS.



NOTES:

1. THIS DRAWING SUPERCEDES PART OF SEP-826 AND SEP-837.

1-0102A-E0011	TYPICAL INSTALLATION DETAILS
1-0102A-E0010	DEVICE AND LUMINAIRE SCHEDULE
1-0102G-E0016	ELECTRICAL CLASSIFICATION PLAN
DRAWING NUMBER	REFERENCE DRAWINGS

**APECM**  
Certificate of Authorization  
SNC-Lavalin Inc.  
No. 4489

NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR TENDER, BID OPP. 7-2012	2012/02/08	TMC	CJR

**SNC-LAVALIN INC.**  
148 Nature Park Way  
Winnipeg, MB, Canada R3P 0X7  
204-798-8080

DESIGNED BY: T. CHURCH  
DRAWN BY: S. FUNK  
SCALE: 1:30  
DATE: 2011/07/06

CHECKED BY: C. REIMER  
APPROVED BY: C. REIMER  
RELEASED FOR CONSTRUCTION BY: N. HARRINGTON  
DATE: 2012/02/15

CONSULTANT NO.: 112577-0113-47DD-0202

ENGINEER'S SEAL

ORIGINAL DRAWING SEALED BY:  
T. M. CHURCH  
SNC-LAVALIN  
MEMBER #32682  
2012/02/15  
REV. 00

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE  
ELECTRICAL CLASSIFICATION UPGRADES  
PLAN LAYOUT  
DRYWELL MECHANICAL ROOM - G130

CITY DRAWING NUMBER: 1-0102G-E0019  
SHEET: 001  
REV: 00  
SIZE: A1