

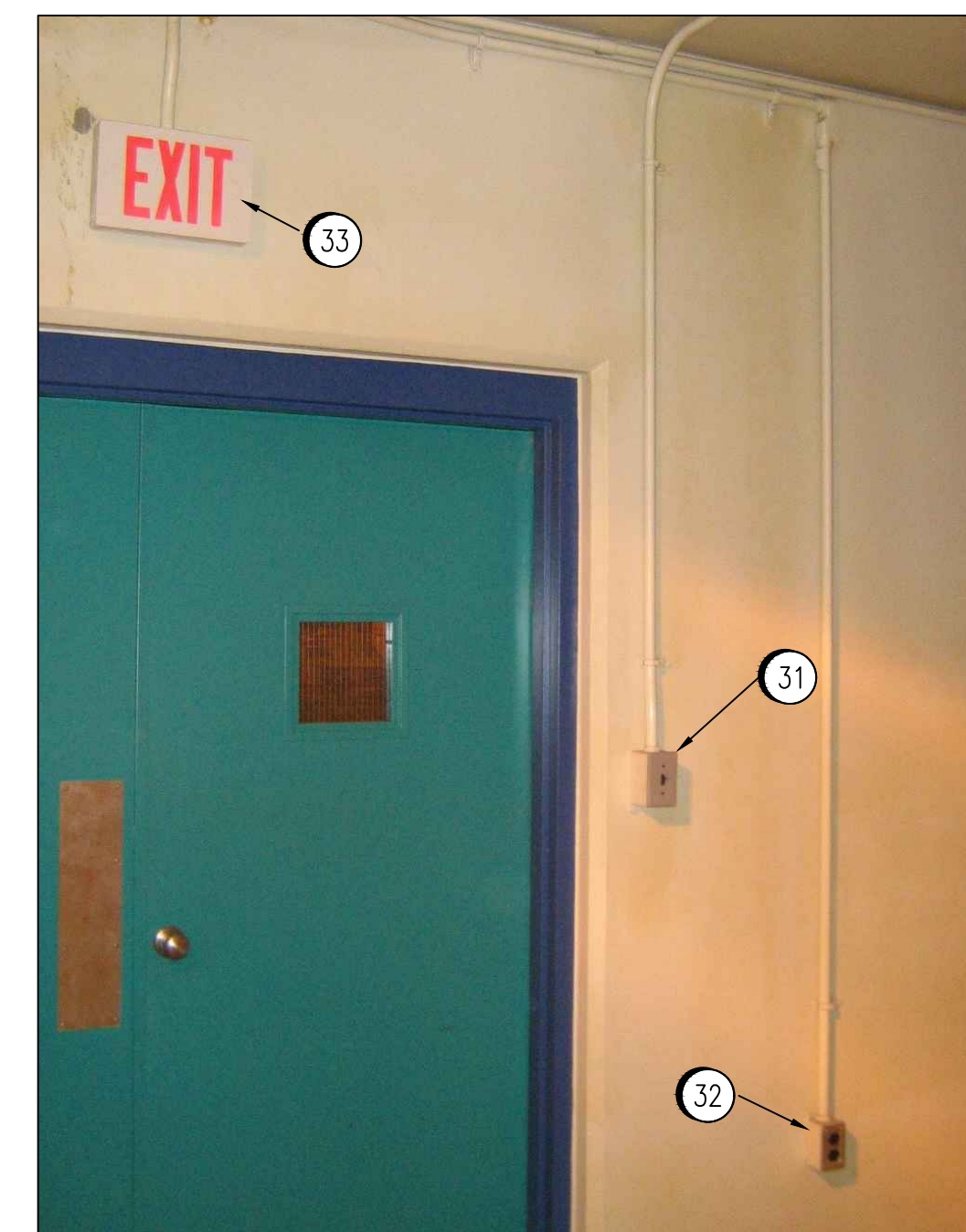
**INSTRUMENTATION**  
**PRIMARY CLARIFIER 3 - EXHAUST FAN ROOM**  
 1 : 30



- 1** **DETAIL**  
 SCALE NTS
- 11** REPLACE EXISTING LOCK-OFF-STOP STATIONS AND BACKBOXES.
  - 12** REMOVE EXISTING LUMINAIRE AND CONDUIT. INSTALL NEW FLUORESCENT FIXTURES (SEE SHEET 002). TYPICAL FOR 3 EXISTING LUMINAIRES IN ROOM.



- 2** **DETAIL**  
 SCALE NTS
- 21** REPLACE EXISTING DIFFERENTIAL PRESSURE SWITCHES AND IMPULSE LINES. REFER TO DETAIL 4 FOR TYPICAL CLOSEUP. SEE DRAWINGS SEP-1193, SEP-1195, AND SEP-1197 FOR WIRING DETAILS.
  - 22** REPLACE EXISTING LIMIT SWITCHES. INSTALL EYS SEAL FOR NEW LIMIT SWITCHES. REFER TO DETAIL 4 FOR TYPICAL CLOSEUP. SEE DRAWINGS SEP-1193, SEP-1195, AND SEP-1197 FOR WIRING DETAILS.



- 3** **DETAIL**  
 SCALE NTS
- 31** REPLACE EXISTING 15A, 347V LIGHT SWITCH AND BOX. INSTALL EYS SEAL IN EXISTING CONDUIT AND WIRING RUN
  - 32** REPLACE EXISTING 15A, 120V RECEPTACLE AND BOX.
  - 33** REPLACE EXISTING EXIT FIXTURE



- 4** **DETAIL**  
 SCALE NTS
- 41** REPLACE ALL FLEXIBLE CONDUIT WITH RIGID CONDUIT.
  - 42** RELOCATE PRESSURE SWITCH TO STRUT AND COVER HOLES IN VENTILATION DUCT.

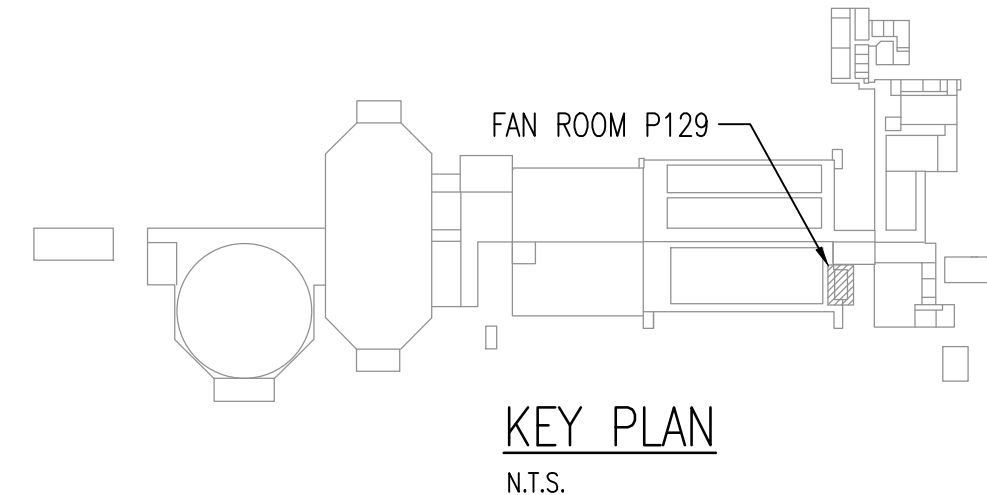
- SPECIFIC NOTES:**
- 1** INSTALL DUCT SEAL IN EXISTING CONDUIT AT THE FIRST CONDUIT BODY OR JUNCTION BOX WITHIN THE HAZARDOUS AREA (ESTIMATED NUMBER OF LOCATIONS : 5).
  - 2** EXISTING PANEL PCP-3 CONTAINS ONLY SOLENOID VALVES AND IS ACCEPTABLE FOR THE NEW AREA CLASSIFICATION.

**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 CLASSIFIED AS HAZARDOUS CLASS I, ZONE 2, GROUP IIA. REFER TO DRAWING 1-0102P-E0014.
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.



1-0102A-E0010	TYPICAL INSTALLATION DETAILS.
1-0102A-E0009	DEVICE AND LUMINAIRE SCHEDULE.
1-0102A-E0008	PARTIAL MAIN FLOOR PLAN AND LEGEND.
DRAWING NUMBER	REFERENCE DRAWINGS

- NOTES:**
1. THIS DRAWING SUPERCEDES PART OF SEP-279 AND SEP-286.



SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080				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 PRIMARY CLARIFIER 3 EXHAUST FAN ROOM - P129
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	CITY DRAWING NUMBER 1-0102P-E0016	SHEET 001	REV. 00	SIZE A1
NO. 00 REVISIONS	DATE 2012/02/08	DESIGN TMC	CHECK CJR	CONSULTANT NO.: 112577-0113-47DD-0401	1-0102P-E0016-001-00.dwg