



ADDENDUM

ADDENDUM#: 1
DATE: 2017-Oct-16
FILE #: 163302290

PROJECT NAME: King City Generator Replacement
CLIENT: Environment and Climate Change Canada

THIS ADDENDUM IS PART OF THE SET OF ORIGINAL PLANS AND SPECIFICATIONS AND MUST BE RECOGNIZED AS AN INTEGRAL PART OF THE CONTRACTUAL DOCUMENTS.

ATTENTION: ALL BIDDERS

The following changes in the tender documents are effective immediately. This addendum will form part of the contract documents.

SCOPE OF WORK

1. **REMOVE** the following from the scope of work:
 - .1 Providing new generator recirculation air control damper c/w related accessories including motorized damper actuator, line voltage temperature sensor and associated power and control wiring.
2. Install generator radiator cooling exhaust air ductwork continuously from generator to existing wall opening as per generator manufacturer's written recommendations.

DRAWINGS

1. **REPLACE** drawing M3 (revision date 2017/07/07) with attached drawing M3 issued on 2017/10/16.
2. **REPLACE** drawing E4 (revision date 2017/08/25) with attached drawing E4 issued on 2017/10/16.
3. **REPLACE** drawing E8 (revision date 2017/08/25) with attached drawing E8 issued on 2017/10/16.

SPECIFICATIONS

1. **REMOVE** Section 23 09 33 from the contract documents.
2. **REMOVE** the following from Section 23 33 15,
 - .1 Paragraphs 2.1 and 2.4.

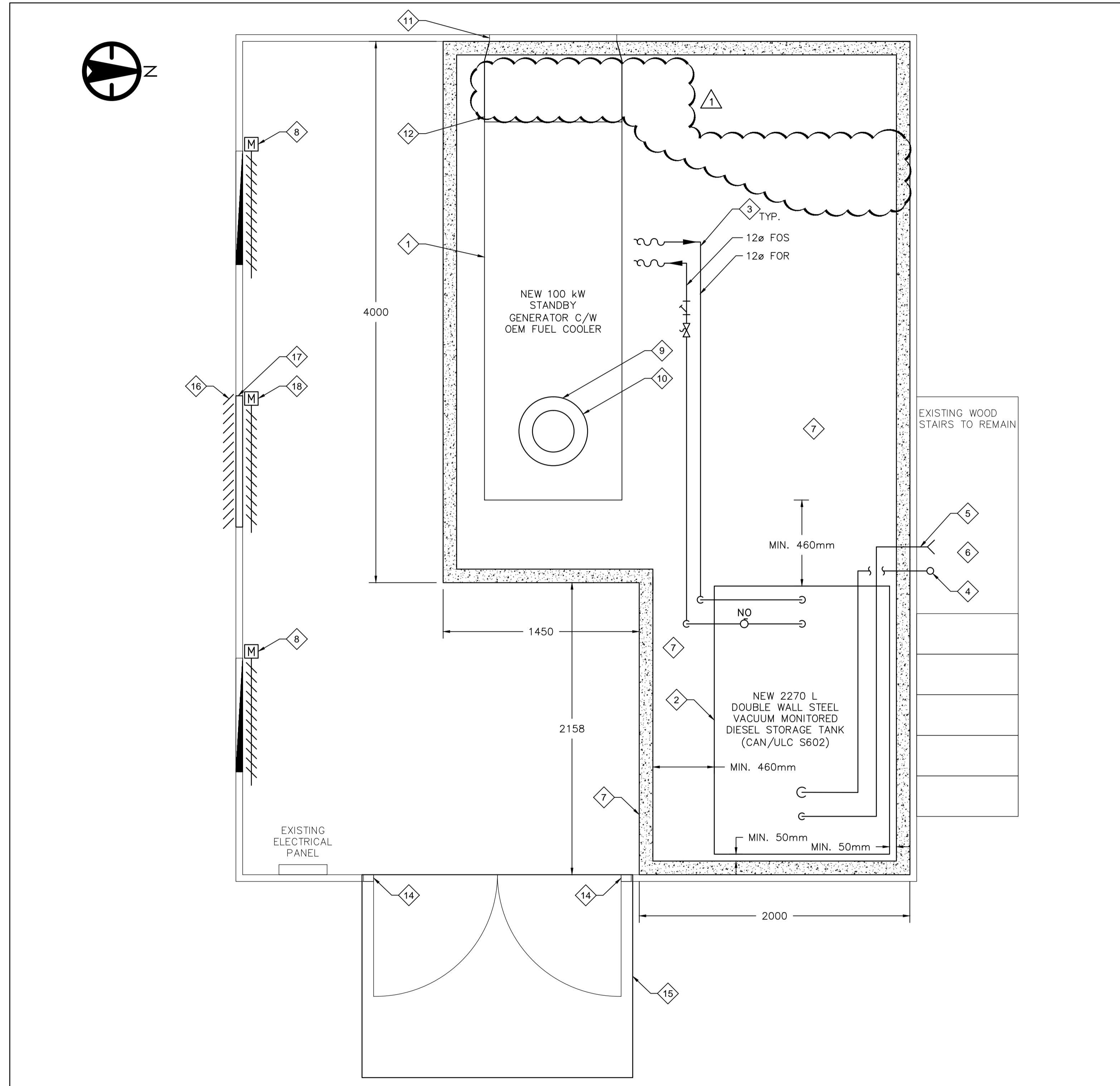
Issued by:

Signature

October 16, 2017

Dated

Attachments: Drawings M3, E4 and E8.



1 KING CITY RADAR WEATHER STATION – APU BUILDING PLAN – NEW WORK
M3 1:20

GENERAL NOTES

- INSTALLATION OF NEW DIESEL STORAGE TANK SYSTEM SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE AND ELECTRICAL TRADE. MINIMIZE CHANGEOVER TIME AND ENSURE NEW GENERATOR SYSTEM IS DISCONNECTED FROM DIESEL STORAGE TANK SYSTEM FOR LEAST AMOUNT OF TIME POSSIBLE.

NEW CONSTRUCTION NOTES

- NEW 100 kW STANDBY GENERATOR C/W INTEGRAL OEM FUEL COOLER AND FUEL FILTER TO BE INSTALLED BY ELECTRICAL. SHOWN HERE FOR COORDINATION AND REFERENCE ONLY.
- PROVIDE NEW 2270 L DOUBLE WALL STEEL VACUUM MONITORED DIESEL STORAGE TANK (CAN/ULC S602) AS INDICATED. PROVIDE PIPING CONNECTIONS, VALVES AND SENSORS AS PER 2/M1. EACH OF FOUR (4) SUPPORT LEGS OF NEW STORAGE TANK SHALL BE ANCHORED TO 100mmØ, 100mm HIGH SCH. 80 STEEL PIPE AS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. RIGIDLY ANCHOR EACH STEEL PIPE TO EXISTING FLOOR WITH EXPANSION-TYPE BOLTS APPROVED BY FUEL STORAGE TANK MANUFACTURER. NEW TANK SHALL BE PROVIDED WITH THE FOLLOWING MINIMUM SERVICE CLEARANCES: MIN. SPACING FROM GENERATOR SHALL BE NO LESS THAN 750 mm. MIN. SPACING BETWEEN FRONT AND ONE SIDE OF TANK FROM WALL AND OTHER INTERFERENCES SHALL BE NO LESS THAN 400 mm. MIN. SPACING FOR TANK FROM BACK WALL AND SECOND SIDE TO WALL SHALL BE NO LESS THAN 50 mm.
- SUPPORT ALL PIPING ON WALLS, FLOOR AND CEILING AS PER DETAILS ON DRAWING M4. TYPICAL FOR ALL FUEL OIL PIPING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE NEW 50ø FILL PIPE TO OUTDOOR TERMINATION AS INDICATED. NEW FILL PIPE SHALL BE EQUIPPED WITH WEATHERTIGHT CAP AND CAN/ULC-S661 CERTIFIED SPILL CONTAINER WITH A MINIMUM CAPACITY OF 28 L. SLOPE FILL PIPING AT MINIMUM 2% TOWARD TANK WITHOUT ANY SAGS OR TRAPS IN WHICH FUEL CAN COLLECT. CONTRACTOR SHALL REUSE EXISTING WALL PENETRATION FROM EXISTING TO BE REMOVED FILL PIPE AND WIDEN AS REQUIRED TO SUIT ROUTING OF NEW PIPING. PATCH, SEAL AND MAKE GOOD TO MATCH EXISTING FINISH AND INTERIOR AND EXTERIOR OF APU BUILDING. REFER TO DETAIL 4/M4 FOR WALL PENETRATION REQUIREMENTS.
- PROVIDE NEW 75ø VENT TO ATMOSPHERE C/W NEW ULC WEATHERPROOF VENT CAP AT TERMINATION OUTSIDE. SLOPE VENT PIPING AT MINIMUM 2% TOWARD TANK WITHOUT ANY SAGS OR TRAPS IN WHICH FUEL CAN COLLECT. CONTRACTOR SHALL REUSE EXISTING WALL PENETRATION FROM EXISTING TO BE REMOVED VENT PIPE AND WIDEN AS REQUIRED TO SUIT ROUTING OF NEW VENT PIPING. PATCH, SEAL AND MAKE GOOD TO MATCH EXISTING FINISH AND INTERIOR AND EXTERIOR OF APU BUILDING. REFER TO DETAIL 4/M4 FOR WALL PENETRATION REQUIREMENTS.
- NEW FUEL FILL AND VENT LINES TO BE ROUTED UP AND OUT OF BUILDING. TERMINATE BOTH PIPES IN APPROXIMATELY THE SAME LOCATION AS CURRENT FILL & VENT CONNECTIONS. CLEARLY LABEL FILL AND VENT PIPES "DIESEL FILL" AND "DIESEL VENT" WITH LAMACOIDS. SUPPLY AND INSTALL "NO SMOKING" AND "TIGHT FILL ONLY" SIGN AT FILL LOCATION. PROVIDE NEW OVERFILL ALARM AT FILL LOCATION AS PER DETAIL ON DRAWING M4.
- PROVIDE NEW 100 mm x 150 mm (W x H) CAST-IN-PLACE CONCRETE CURB SURROUNDING DIESEL STORAGE TANK SYSTEM AND GENERATOR WITHIN APU BUILDING AS INDICATED. SEAL ENTIRE FLOOR AREA LOCATED WITHIN NEW CURB WITH APPROVED SEALANT THAT IS IMPERMEABLE TO FUEL OIL. REFER TO DETAIL 6/M4. PATCH ALL EXISTING CRACKS IN CONCRETE FLOOR OF EXISTING APU BUILDING.
- PROVIDE NEW SPRING-RETURN ACTUATOR C/W END SWITCHES FOR EXISTING COMBUSTION AIR AND VENTILATION AIR MOTORIZED DAMPERS. POWER, CONTROLS AND WIRING BY ELECTRICAL. REFER TO SPECIFICATIONS FOR ACTUATOR REQUIREMENTS. TYPICAL-2.
- PROVIDE NEW APPROVED ULC-LISTED PREFABRICATED GENERATOR EXHAUST STACK DIRECTLY DOWNSTREAM OF NEW APPROVED ULC-LISTED HEAVY DUTY RESIDENTIAL-GRADE GENERATOR SILENCER C/W ALL RELATED ACCESSORIES AS PER SPECIFICATIONS. NEW EXHAUST STACK SHALL BE SIZED TO SUIT NEW 100 kW STANDBY GENERATOR. NEW EXHAUST C/W SILENCER SHALL BE INSULATED FOR FIRST 2450 mm ABOVE GRADE AND THERE SHALL BE A CONDENSATE DRAIN C/W SHUTOFF VALVE PROVIDED TO DRAIN TO A SAFE LOCATION INSIDE THE APU BUILDING. CONTRACTOR SHALL ENGAGE QUALIFIED ROOFING SUBTRADE AND CARRY ALL COSTS ASSOCIATED WITH ROOFING WORK TO CREATING NEW ROOF OPENING FOR EXHAUST. INSTALLATION OF NEW EXHAUST ABOVE ROOF LEVEL. INSTALLATION OF SUPPORTS AND ALL EXHAUST RELATED WORK AT OR ABOVE ROOF LEVEL. WEATHERPROOF, PATCH, SEAL AND MAKE GOOD NEW ROOF OPENING TO MATCH EXISTING ROOF CONDITION. REFER TO DETAILS 9/M4 AND 10/M4. EXACT LOCATION OF NEW EXHAUST STACK AND NEW EXHAUST SILENCER TO SUPPLIED AND INSTALLED BY DIVISION 23 SHALL BE COORDINATED ONSITE WITH DEPARTMENTAL REPRESENTATIVE.
- THE CONTRACTOR SHALL ENGAGE A SEISMIC ENGINEER LICENSED IN THE PROVINCE OF ONTARIO TO CARRY OUT THE DESIGN OF THE SUPPORTS FOR THE PROPOSED GENERATOR EXHAUST INCLUDING, BUT NOT LIMITED TO, THE NEW GENERATOR EXHAUST SILENCER AND CHIMNEY. THE CONTRACTOR SHALL SUBMIT SEALED SHOP DRAWING(S) OF THE SUPPORTS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SCHEDULE OF WORK. THE SHOP DRAWING(S) FOR THE SUPPORTS MUST BE APPROVED BY THE MANUFACTURERS OF BOTH THE APPROVED GENERATOR EXHAUST STACK AND APPROVED EXHAUST SILENCER. THE CONTRACTOR SHALL CARRY ALL COSTS ASSOCIATED WITH DESIGNING AND PROVIDING THE GENERATOR EXHAUST CHIMNEY SUPPORTS.
- MAINTAIN EXISTING WALL OPENING C/W EXISTING 940mm x 1240mm (W x H) LOUVRE AND PROVIDE NEW BIRD SCREEN TO SUIT WALL OPENING SIZE. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO COMPLETING WORK AND NOTIFY DEPARTMENTAL REPRESENTATIVE OF ANY DISCREPANCIES.
- PROVIDE NEW DUCTWORK PLENUM TO SUIT NEW 100 kW STANDBY GENERATOR RADIATOR COOLING AIR REQUIREMENTS (3000 L/s) AND EXISTING 940mm x 1240mm WALL OPENING AS PER MANUFACTURER'S RECOMMENDATIONS. INSULATE PLENUM AS PER SPECIFICATIONS.
- NOT USED.
- PROVIDE NEW MECHANICAL SPRING-ACTUATED DOOR CLOSER TO SUIT EACH SIDE OF EXISTING DOUBLE MAN DOOR TO THE SATISFACTION OF DEPARTMENTAL REPRESENTATIVE. TYPICAL-2.
- APPROXIMATE LOCATION OF NEW CONCRETE RAMP AT APU BUILDING ENTRANCE BY DIVISION 3. COORDINATE DELIVERY AND ROUGH IN OF NEW EQUIPMENT INSIDE APU BUILDING WITH STRUCTURAL TRADE. REFER TO DRAWING S1 FOR NEW CONCRETE RAMP.
- PROVIDE NEW 1220mm (H) x 914mm (W) x 100mm (D) STORMPROOF LOUVRE C/W FLANGED CONNECTION IN NEW ±1220mm x ±970mm (W x H) OPENING CREATED BY REMOVAL OF WINDOW. INSTALL LOUVRE AS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WEATHERSTRIPPING AND CAULKING TO ENSURE THAT LOUVRE IS SEALED TO BE FULLY WEATHERTIGHT. CONTRACTOR IS RESPONSIBLE FOR ENLARGING OPENING AND/OR PROVIDING INSULATED ALUMINUM BLANK-OFF PANELS AS NECESSARY FOR THE INSTALLATION OF THE NEW LOUVRE TO SUIT NEW WALL OPENING CREATED BY THE REMOVAL OF WINDOW. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE NEW 914MM (W) x 1220MM (W x H) THERMALLY BROKEN INSULATED DAMPER C/W FLANGED CONNECTION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE NEW SPRING-RETURN ACTUATOR C/W END SWITCHES FOR NEW COMBUSTION AIR AND VENTILATION AIR DAMPER. POWER, CONTROLS AND WIRING BY ELECTRICAL. REFER TO SPECIFICATIONS FOR ACTUATOR REQUIREMENTS.



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04	ISSUED WITH ADDENDUM 1	2017/10/16
03	ISSUED FOR TENDER	2017/07/07
02	ISSUED FOR 99% REVIEW	2017/06/09
01	ISSUED FOR 50% REVIEW	2017/05/19
revision		date

Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the engineer of all discrepancies.

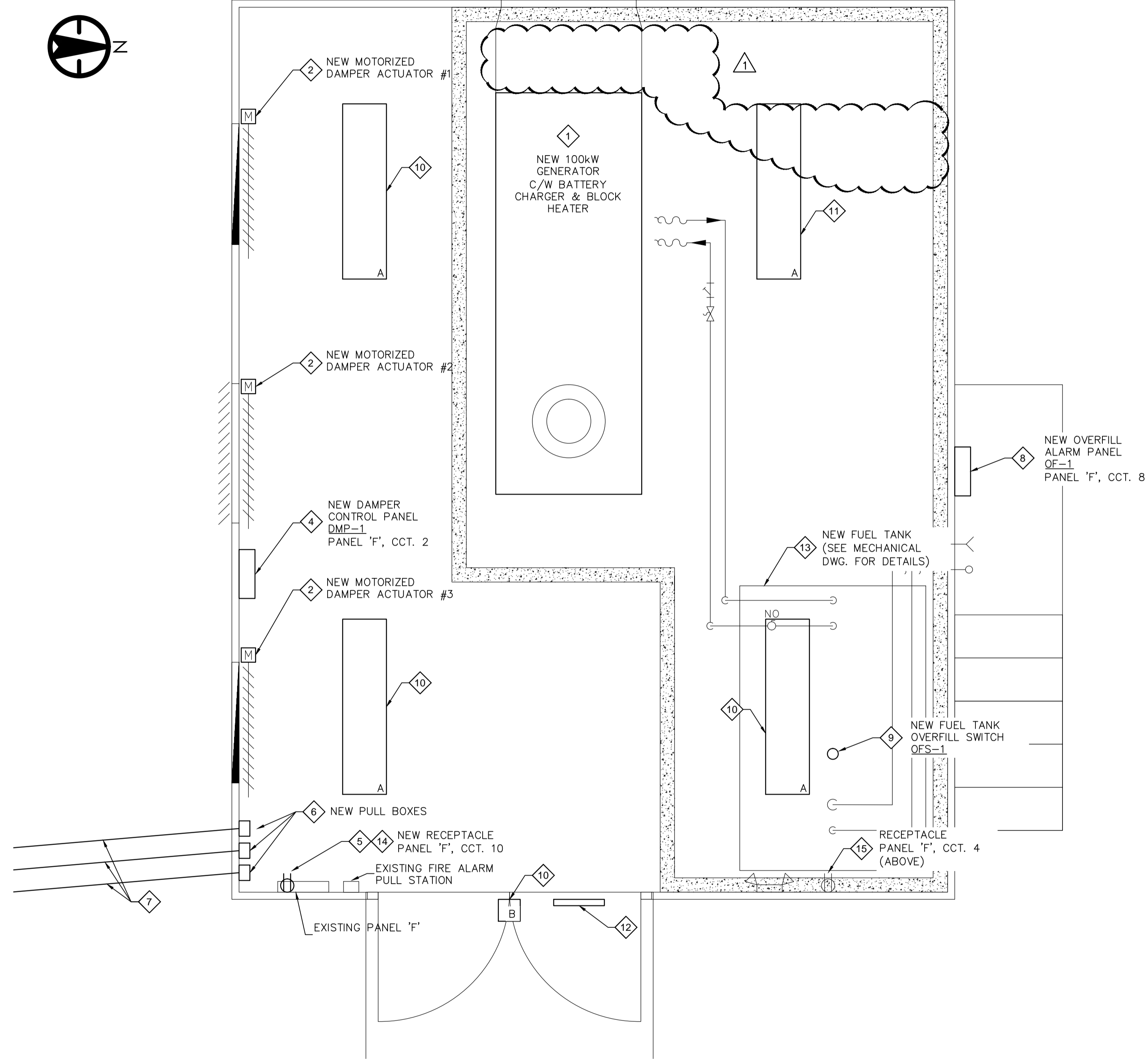
A	Detail No.
B	No. du détail
C	drawing no. - where detail required dessin no. - où détail exigé
	drawing no. - where detailed dessin no. - où détaillé

project title
titre du projet
KING CITY ONTARIO
ENVIRONMENT AND CLIMATE CHANGE CANADA
14780 JANE STREET
KING CITY, ON

GENERATOR REPLACEMENT

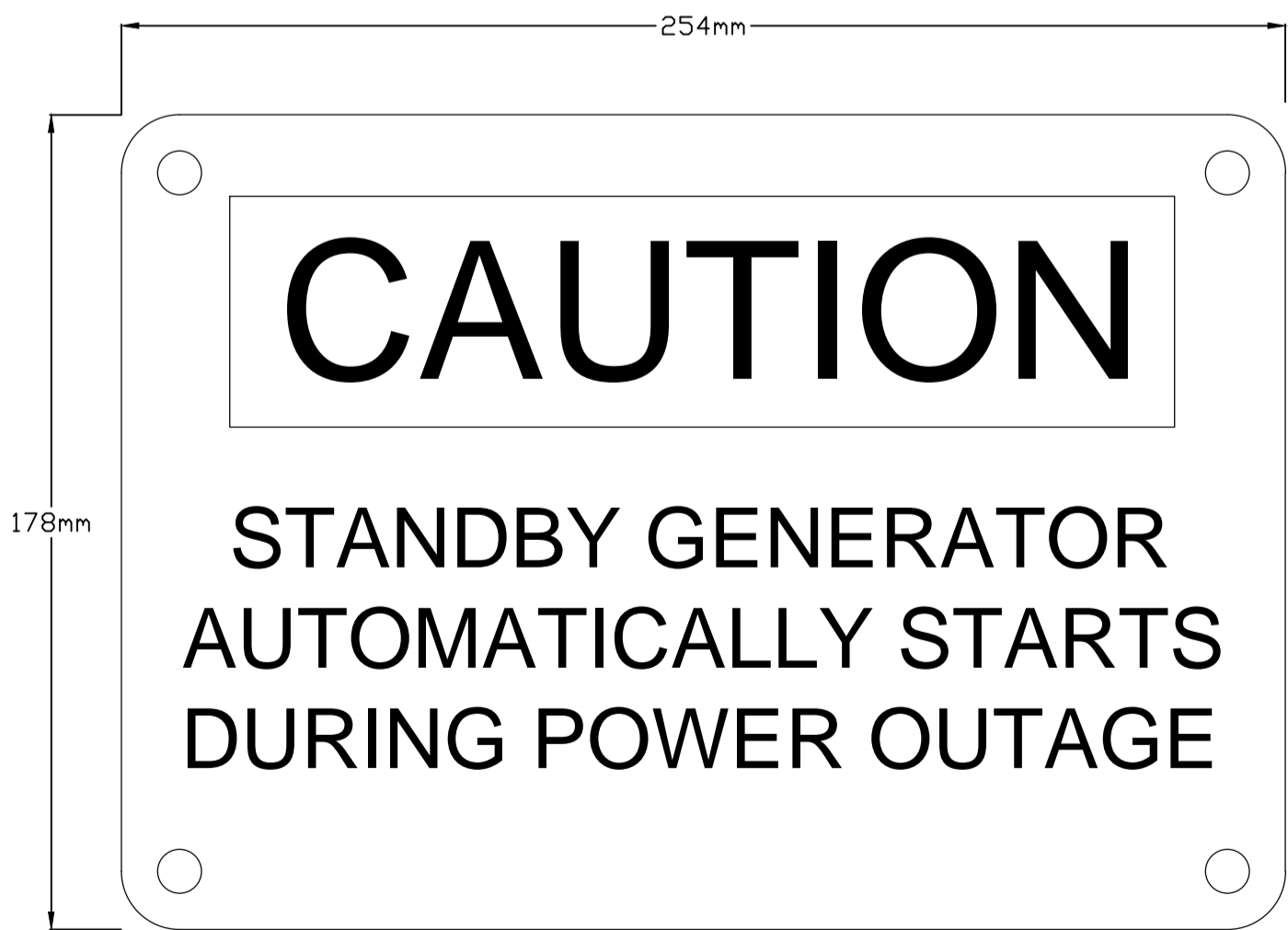
drawing title
titre du dessin
MECHANICAL
APU BUILDING PLAN
NEW WORK

drawn by dessiné par	C. LOBO	project manager administrateur de projets
designed by conçue par	C. LOBO	
approved by approuvé par	C. McGEE	
tender soumission	DANIEL VENTURA	
project date date du projet	2017/05/09	
project no. no. du projet	163302290	
drawing no. dessiné no.	M3	



1 NEW CONSTRUCTION – APU BUILDING
E4 1:20

NEW CONSTRUCTION NOTES	
1	PROVIDE AND INSTALL NEW 100kW GENERATOR C/W ALL ASSOCIATED WIRING AND CONDUIT. REFER TO SINGLE LINE DIAGRAM - NEW CONSTRUCTION FOR MORE DETAILS. FEED NEW BATTERY CHARGER FROM EXISTING PANEL 'F', CCT. 5. FEED NEW GENERATOR ENGINE BLOCK HEATER FROM EXISTING PANEL 'F', CCT. 6.
2	PROVIDE AND INSTALL WIRING AND EMT CONDUIT FROM NEW MOTORIZED DAMPER TO NEW CONTROL PANEL DMP-1.
3	NOT USED.
4	PROVIDE AND INSTALL NEW MOTORIZED DAMPER CONTROL PANEL DMP-1. NEW PANEL TO BE FED FROM EXISTING PANEL 'F', CCT. 2.
5	PROVIDE AND INSTALL NEW RECEPTACLE BELOW EXISTING PANEL 'F'. FEED NEW RECEPTACLE FROM PANEL 'F', CCT. 10.
6	PROVIDE AND INSTALL NEW PULL BOXES FOR INCOMING CONDUITS FROM MAIN BUILDING MECH/ELEC ROOM B101.
7	PROVIDE AND INSTALL NEW DIRECT BURIED CONDUIT FROM APU BUILDING TO MAIN BUILDING B101 MECH/ELEC ROOM AS PER DIRECT BURIED CONDUIT SCHEDULE. REFER TO DWG. E1 FOR DETAILS.
8	PROVIDE AND INSTALL NEW OVERFILL ALARM PANEL OF-1. NEW OVERFILL ALARM PANEL TO BE MOUNTED ON EXTERIOR WALL OF APU BUILDING. FEED NEW PANEL FROM EXISTING PANEL 'F', CCT. 8.
9	PROVIDE AND INSTALL NEW FUEL TANK OVERFILL SWITCH OFS-1 ON NEW FUEL TANK. CONNECT TO NEW OVERFILL ALARM PANEL OF-1.
10	PROVIDE AND INSTALL NEW LED INTERIOR AND EXTERIOR APU BUILDING LIGHTING. CONNECT TO EXISTING WIRING.
11	PROVIDE AND INSTALL NEW LED INTERIOR LIGHT, TO BE FED FROM EXISTING LIGHTING CIRCUIT 1 IN PANEL 'F'.
12	PROVIDE AND INSTALL CAUTIONARY SIGNAGE ON ENTRANCE DOOR TO APU BUILDING SUITABLE FOR OUTDOOR USE. SEE DETAIL 2 FOR PREFERRED SIGN.
13	BOND NEW FUEL TANK TO NEW GENERATOR.
14	PROVIDE CIRCUIT ID LABELS ON ALL RECEPTACLES TO INDICATE SOURCE CIRCUIT.



2 CAUTION SIGN DETAIL – APU BUILDING
E4 N.T.S



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- GENERAL NOTES:
- THICK DASHED LINES INDICATE REMOVALS.
 - THICK SOLID LINES INDICATE NEW CONSTRUCTION.
 - THIN SOLID LINES INDICATE EXISTING.

revision	date
04	ISSUED WITH ADDENDUM 1 2017/10/16
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14780 JANE STREET
KING CITY, ON

GENERATOR REPLACEMENT

drawing title
titre du dessin
ELECTRICAL
APU BUILDING –
NEW CONSTRUCTION

drawn by
dessiné par J.CZYZEWSKI

designed by
conçu par T. BIRO

approved by
approuvé par O. JAN

tender
soumission DANIEL VENTURA project manager
administrateur de projets

project date
date du projet 2017/05/09

project no.
no. du projet 163302290

drawing no.
dessiné no. E4






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GENERAL NOTES:

1. THICK DASHED LINES INDICATE REMOVALS.
2. THICK SOLID LINES INDICATE NEW CONSTRUCTION.
3. THIN SOLID LINES INDICATE EXISTING.

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KING CITY ONTARIO
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14780 JANE STREET
KING CITY, ON

GENERATOR REPLACEMENT

drawing title
titre du dessin
ELECTRICAL
APU BUILDING
PANEL 'F' SCHEDULE

drawn by
dessiné par **J.CZYZEWSKI**

designed by
conçu par **T. BIRO**

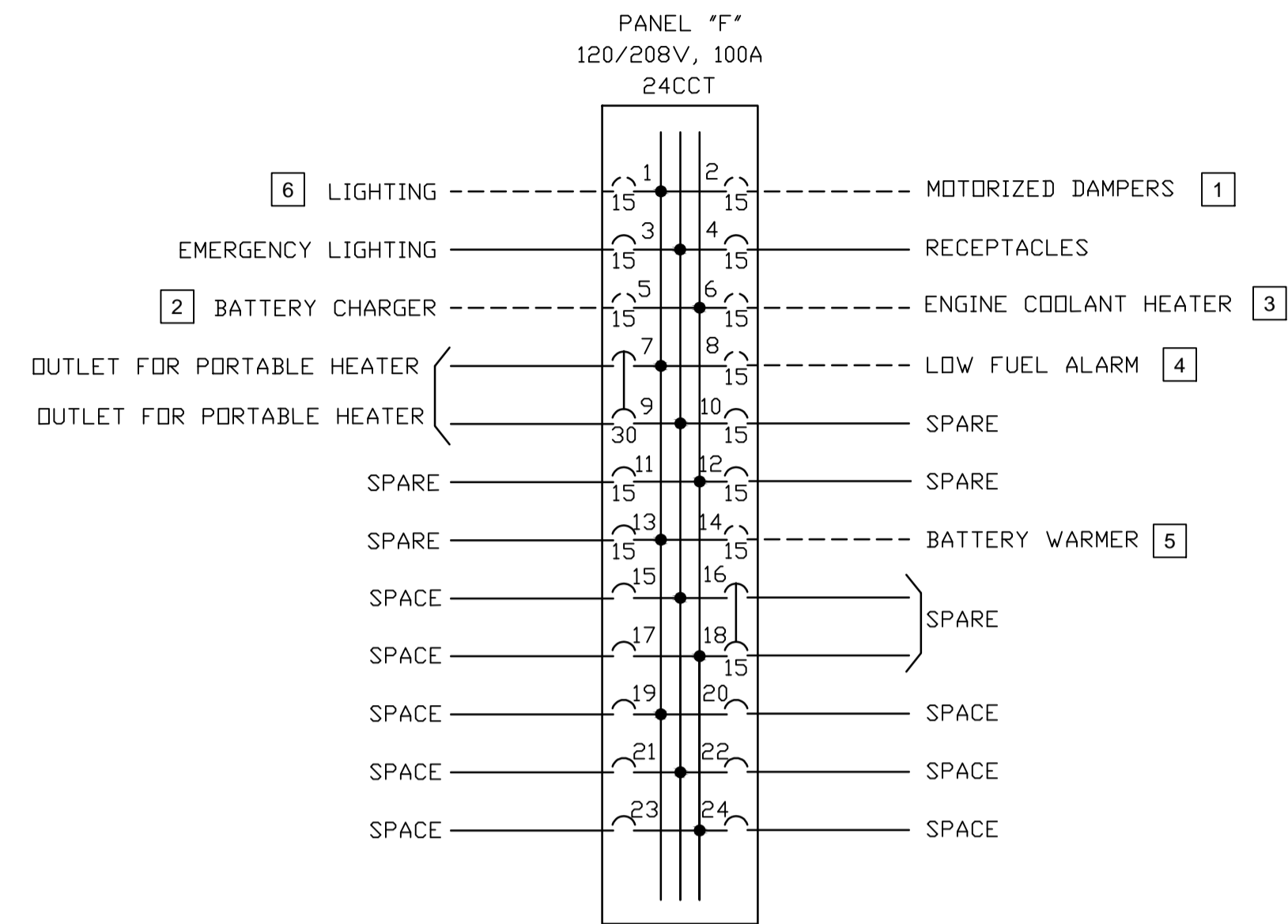
approved by
approuvé par **O. JAN**

lender
soumission **DANIEL VENTURA** project manager
administrateur de projets

project date
date du projet **2017/05/09**

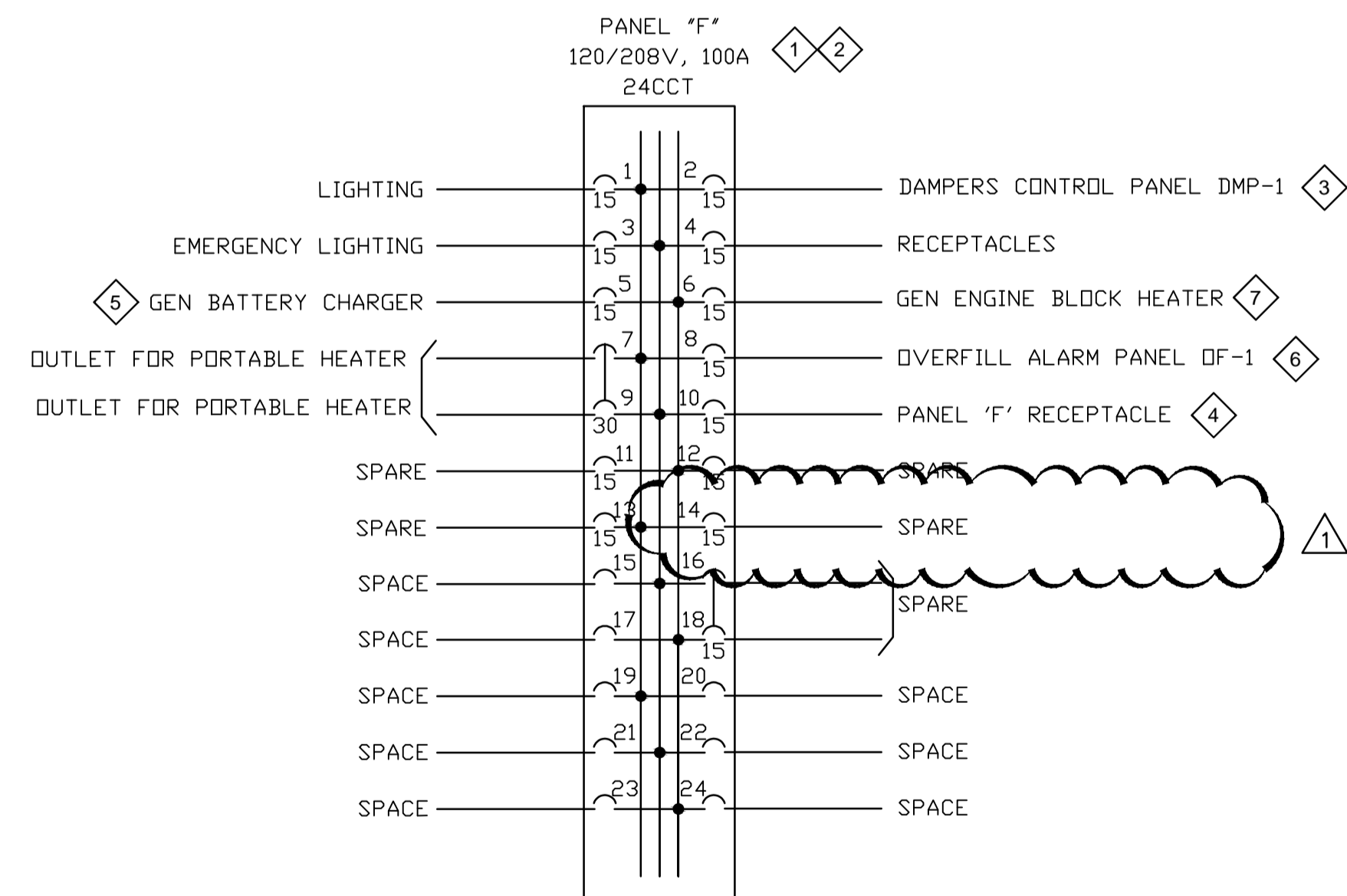
project no.
no. du projet **163302290**

drawing no.
dessiné no. **E8**



1	REMOVE EXISTING POWER FEED TO EXISTING MOTORIZED DAMPERS.
2	REMOVE EXISTING POWER FEED TO EXISTING WALL MOUNTED BATTERY CHARGER.
3	REMOVE EXISTING POWER FEED TO EXISTING ENGINE COOLANT HEATER.
4	REMOVE EXISTING POWER FEED TO EXISTING LOW FUEL ALARM SYSTEM.
5	REMOVE EXISTING POWER FEED TO EXISTING BATTERY WARMER.
6	APU BUILDING INTERIOR AND EXTERIOR LIGHTS TO BE REPLACED. EXISTING WIRING AND CONDUIT TO REMAIN.

1
E8 **DEMOLITION - GENERATOR SHED - PANEL F SCHEDULE**
N.T.S



1	UPDATE TYPE WRITTEN PANEL SCHEDULE TO AS-BUILT CONDITION AND PROVIDE COPY IN PANELBOARD.
2	PROVIDE CIRCUIT ID LABEL ON ALL RECEPTACLES TO INDICATE SOURCE CIRCUIT.
3	PROVIDE NEW 2#14AWG T90 + BOND IN 21mm EMT FROM EXISTING CIRCUIT BREAKER IN PANEL 'F' TO NEW MOTORIZED DAMPER CONTROL PANEL DMP-1.
4	PROVIDE NEW 2#14AWG T90 + BOND IN 21mm EMT FROM EXISTING CIRCUIT BREAKER IN PANEL 'F' TO NEW RECEPTACLE.
5	PROVIDE NEW 2#14AWG T90 + BOND IN 21mm EMT FROM EXISTING CIRCUIT BREAKER IN PANEL 'F' TO NEW GENERATOR BATTERY CHARGER.
6	PROVIDE NEW 2#14AWG T90 + BOND IN 21mm EMT FROM EXISTING CIRCUIT BREAKER IN PANEL 'F' TO NEW OVERFILL ALARM PANEL OF-1.
7	PROVIDE NEW 2#14AWG T90 + BOND IN 21mm EMT FROM EXISTING CIRCUIT BREAKER IN PANEL 'F' TO NEW GENERATOR ENGINE BLOCK HEATER.
8	NOT USED

2
E8 **NEW CONSTRUCTION - GENERATOR SHED - PANEL F SCHEDULE**
N.T.S