

MOUNT FIRE ALARM DETECTORS TO UNDERSIDE OF CEILING JOISTS. TYPICAL. SEE NOTE 2.

1 LAYOUT — LIGHTING AND FIRE DETECTION
E01 SCALE : 1:50

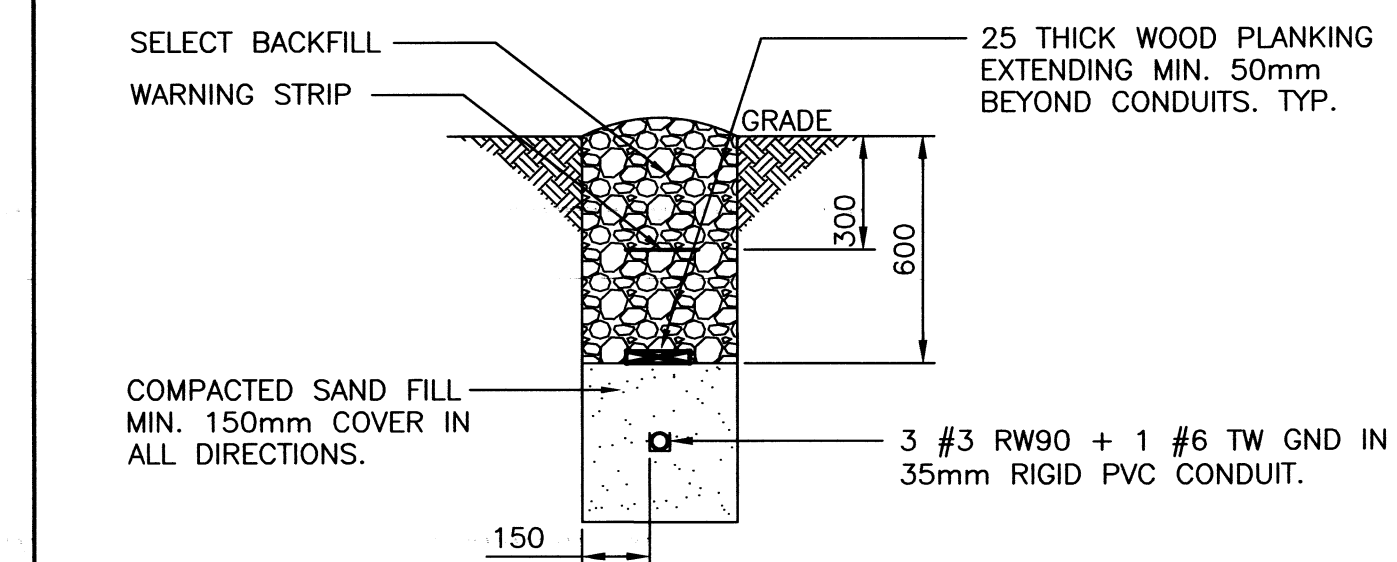
MOUNT AT 1200mm AFF.
MANUAL STARTER FOR PUMP.
30A, 240V, 3P DISCONNECT FOR HOT WATER TANK.

SEE DETAILS 1 & 2 ON DRAWING E02 FOR DISTRIBUTION LAYOUTS.

2 LAYOUT — POWER AND HEATING
E01 SCALE : 1:50

NOTES:

- ALL ELECTRICAL DEVICES AND CONDUIT TO BE SURFACE MOUNTED C/W FS BOXES.
- PROVIDE 2C #14 AC90 FOR INTERCONNECTION OF SMOKE AND COMBINATION SMOKE ALARMS.
- 3 COPPER CLAD STEEL GROUND RODS (19mm x 3M) SPACED MINIMUM 3M APART. RESISTANCE TO GROUND SHALL NOT EXCEED 10 OHMS. TEST AND PROVIDE DEPARTMENTAL REPRESENTATIVE WITH RESULTS. LOCATE NEAR SERVICE, COORDINATE ON SITE. CONNECTION TO BE BY EXOTHERMIC PROCESS. LOCATE IN OPTIMUM AREA FOR GROUNDING. IF BEDROCK IS ENCOUNTERED USE GROUND ENCASEMENT MATERIAL AROUND CONDUCTORS AND RODS. SEE NOTE 4.
- PROVIDE #3/0 BARE COPPER CONDUCTOR BETWEEN RODS. PROVIDE #6 BARE COPPER CONDUCTOR TO ELECTRICAL SERVICE SWITCH C/W 21mm PVC CONDUIT ABOVE GRADE.
- PROVIDE 21mm PVC CONDUIT STUB THROUGH FLOOR FOR FUTURE CATV/TELEPHONE WIRING. PROVIDE PVC SLEEVE FOR FLOOR PENETRATIONS. SEAL AND MAKE WATER TIGHT. PROVIDE SCREW CAP ON BOTH ENDS OF CONDUIT.
- PROVIDE LOW VOLTAGE CONTROL WIRING IN 21mm EMT CONDUIT FROM HRV CONTROLLER TO HRV. COORDINATE REQUIREMENTS WITH SYSTEM VENDOR.



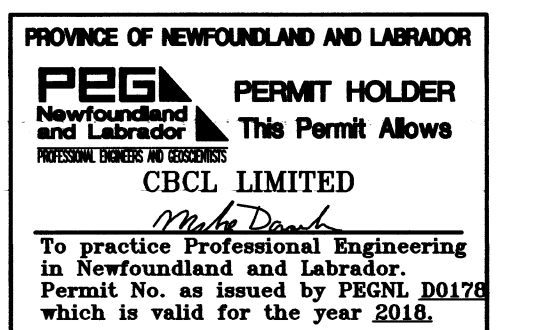
A DETAIL — TRENCH SECTION
E01 NTS.

LIGHTING FIXTURE SCHEDULE

SYMBOL	LIGHT SOURCE	MOUNTING	VOLTS	LUMENS	WATTAGE	MANUFACTURER	CAT. NO.	REMARKS
A	LED	CEILING SUSPENDED	120V	3800	28W	METALUX	4SNLED-LD5-37SL-LN-UNV-L830-CD1-U	SUSPEND FIXTURE USING AIRCRAFT CABLE TO 2500mm AFF.
B	LED	WALL EXTERIOR SURFACE	120V	2200	31W	COOPER ALL-PRO	MST1890LW	MOUNT FIXTURE 600mm ABOVE DOOR.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
DEVICES		LIGHTING	
[Symbol]	SURFACE MOUNTED PANELBOARD.	[Symbol]	SUSPENDED LED STRIP LIGHT FIXTURE
[Symbol]	DUPLEX RECEPTACLE, 125V, 15A	[Symbol]	EXTERIOR WALL MOUNT LIGHT FIXTURE
[Symbol]	DUPLEX RECEPTACLE, 125V, 15/20A	[Symbol]	SINGLE POLE LIGHT SWITCH
[Symbol]	GFI DUPLEX RECEPTACLE, 125V, 15/20A	[Symbol]	TWO POLE LIGHT SWITCH
[Symbol]	SIMPLEX RECEPTACLE, 125/250V	[Symbol]	EMERGENCY BATTERY UNIT. SEE NOTE 1.
[Symbol]	JUNCTION BOX	[Symbol]	EMERGENCY DOUBLE REMOTE HEAD. SEE NOTE 2.
[Symbol]	DIRECT CONNECTION TO EQUIPMENT	ANNOTATIONS	
[Symbol]	ELECTRICAL DISCONNECT SWITCH	CT	INSTALLED ABOVE COUNTER TOP
[Symbol]	TOGGLE TYPE MANUAL STARTER SWITCH	CL	CEILING MOUNTED
HEATING		GFI	GROUND FAULT INTERRUPTER
[Symbol]	LINE VOLTAGE THERMOSTAT	F	REFRIGERATOR
[Symbol]	ELECTRIC BASEBOARD HEATER. WATTAGE AS INDICATED.	NOTES:	
FIRE ALARM AND DETECTION		1. BATTERY UNIT TO BE C/W STRAIGHT BLADE RECEPTACLE FOR AC CONNECTION. REMOTE HEADS TO BE 2-12V, 4W LED. BATTERY UNIT WATTAGE TO BE 72W.	
[Symbol]	SMOKE ALARM	2. REMOTE HEADS TO BE 2-12V 4W MR16 LED.	
[Symbol]	COMBINATION SMOKE/CARBON MONOXIDE ALARM		



0	ISSUED FOR TENDER	AUG 08 2018
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date	JANUARY 2018	
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