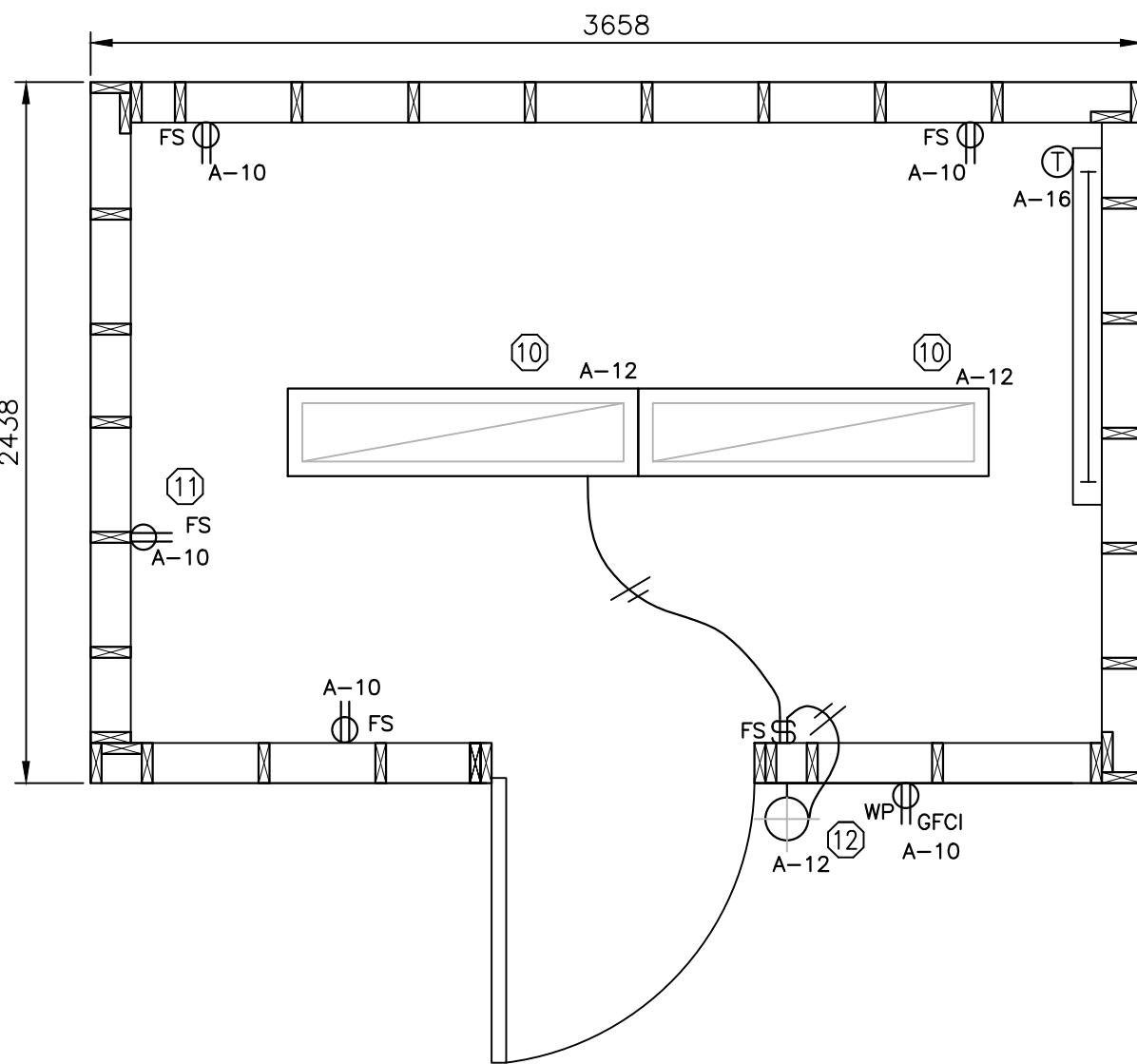


ELECTRICAL BUILDING - EQUIPMENT LAYOUT

NOTE:

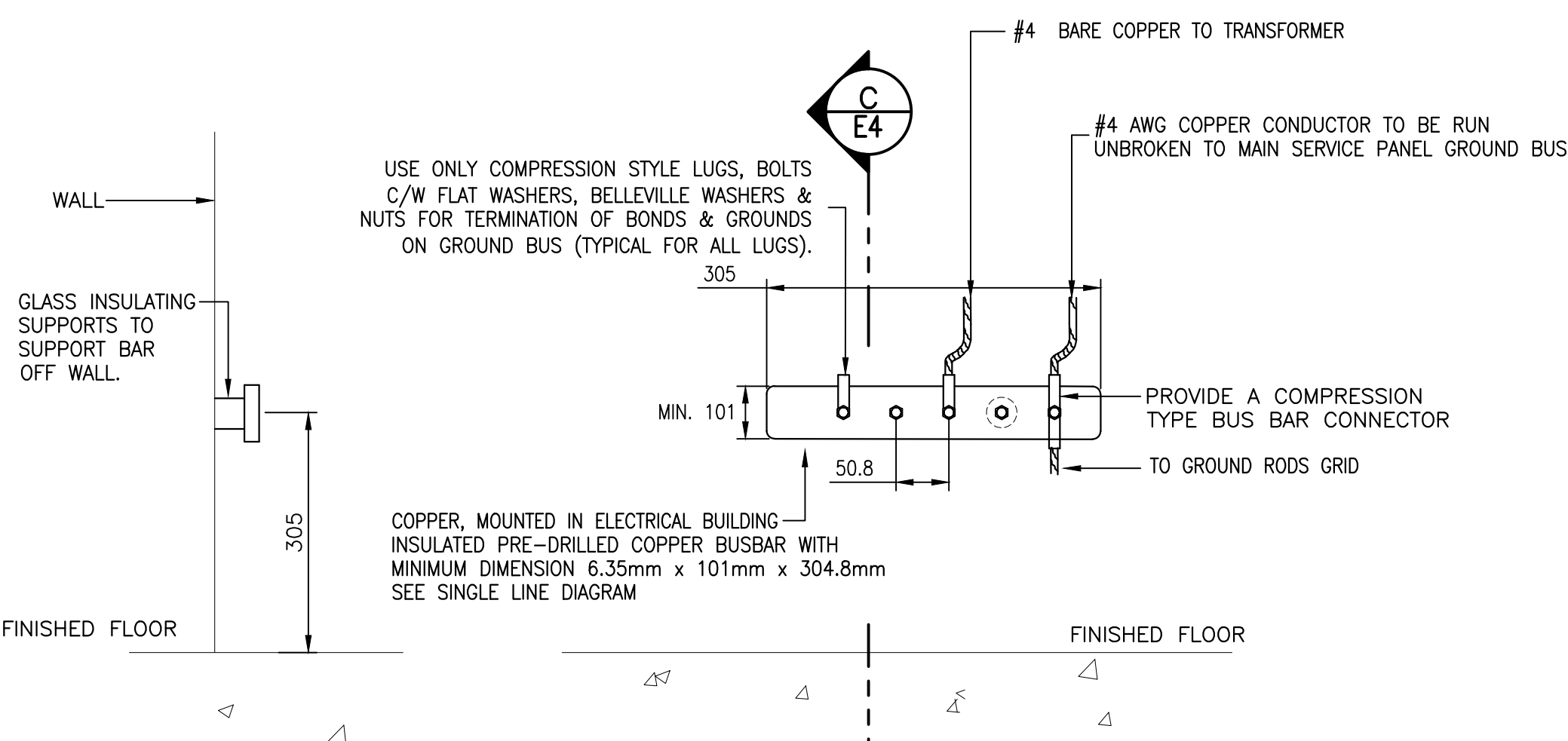
- ALL EQUIPMENT/WIRING ETC.... IN ELECTRICAL SHED TO BE SURFACE MOUNTED.



ELECTRICAL BUILDING - POWER & LIGHTING LAYOUT

NOTE:

- ALL EQUIPMENT/WIRING ETC.... IN ELECTRICAL SHED TO BE SURFACE MOUNTED.
- ALL DIMENSIONS ARE IN MILLIMETERS.



SECTION C

ELEVATION

DETAIL - GROUNDING BAR

SCALE: 1:25

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS

FACIAS, SOFFITS AND INTERIOR TRIM:

- ALL TRIM CLEAR PINE BOARDS
- PRIMER PLUS TWO COATS
- WHITE LATEX SEMI-GLOSS
- ALL WORK BACK PRIMED
- STAINLESS STEEL NAILS
- CONTINUOUS SLOT VENT WITH INSECT SCREEN TO LOW AND HIGH SOFFIT

DOOR:

- ELECTRICAL BUILDING TO HAVE STANDARD SIZE INSULATED GALVANIZED STEEL DOOR 914MM X 2032MM C/W STEEL FRAME AND LOCKABLE STAINLESS STEEL HARDWARE. DOOR TO BE PAINTED PRIMER + 2 COATS, LATEX SEMI-GLOSS, COLOR WHITE. PVC WEATHER STRIPPING TOP, BOTTOM & BOTH SIDES. KEYS TO DEPARTMENTAL REPRESENTATIVE'S KEYING SYSTEM.

NOTES:

- WALLS TO BE CONSTRUCTED WITH 2-38 x 140 TOP PLATES AND 1-38 x 140 BOTTOM PLATE TO BE PRESSURE TREATED ON SILL GASKET. BOLT WALLS TO FOUNDATION WITH 12mm ANCHOR BOLTS @ 600 c/c (HOT DIPPED GALVANIZED).
- ALL MATERIAL AND CONSTRUCTION TO COMPLY WITH NATIONAL BUILDING CODE OF CANADA 2015 PART 9.

SECTION - BUILDING MATERIALS

SCALE: 1:25

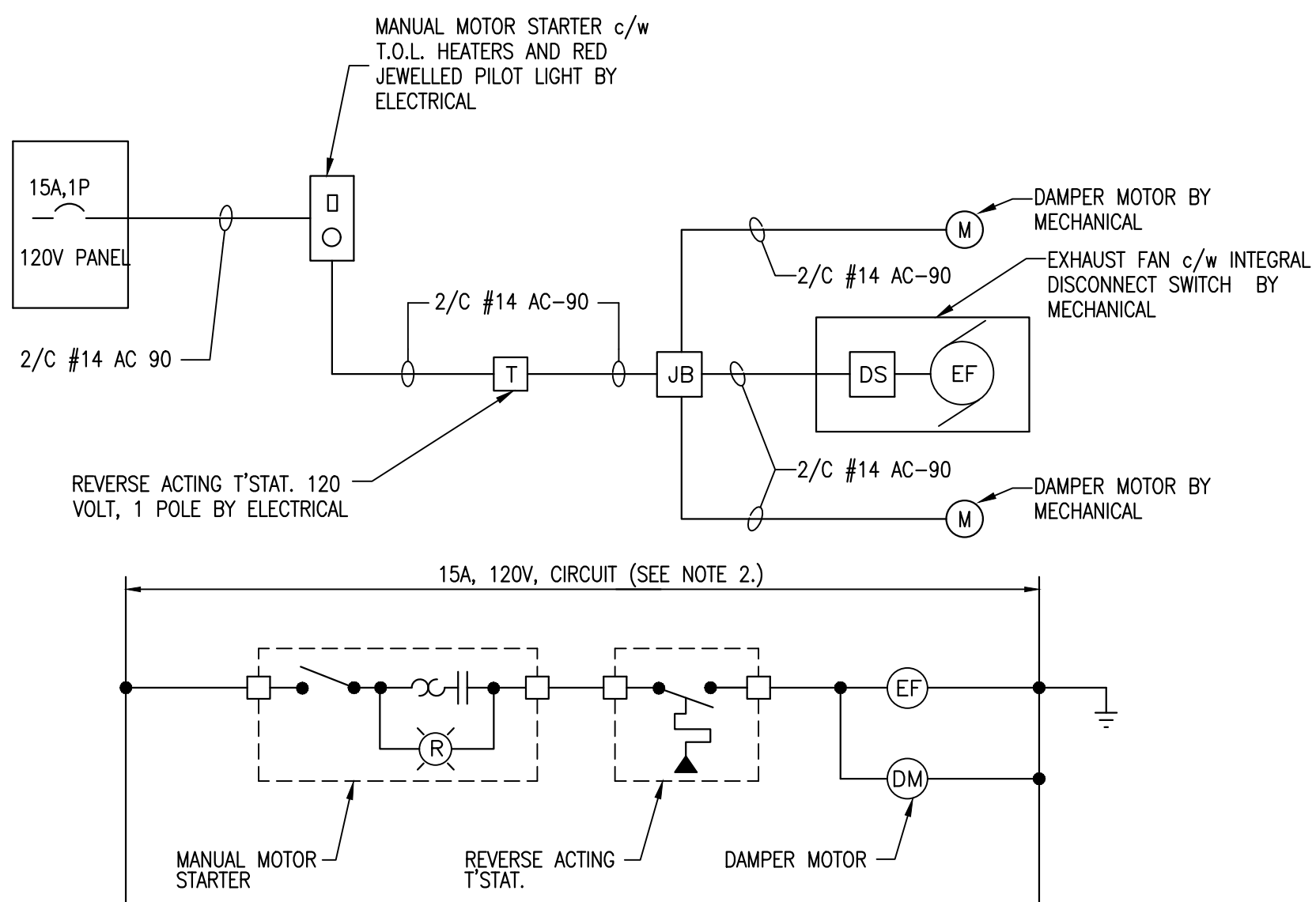
0mm 500mm 1000mm 1500mm 2000mm 2500mm

LEGEND - ELECTRICAL BUILDING EQUIPMENT

- 100 AMP, 600 VOLT, 3 POLE, 3 ϕ , 4 WIRE SERVICE ENTRANCE RATED MAIN CIRCUIT BREAKER c/w NEUTRAL KIT.
- 100 AMP, 600 VOLT, 7 JAW METER SOCKET c/w INSULATED NEUTRAL. EEMAC 3R ENCLOSURE.
- PANEL 'A': 100 AMP, 347/600 VOLT, 3 PHASE, 4 WIRE DISTRIBUTION PANELBOARD. 18 CIRCUIT, 100 AMP MAINS. COPPER INTERIOR C/W BRANCH BREAKERS AS REQUIRED.
- COPPER GROUND BAR. 101mm (h) x 3.2mm (tk) x 300mm (l) MOUNTED 300mm A.F.F. ON GLASS INSULATORS.
- 75 kVA, 600-120/208 VOLT, DRY TYPE 3 ϕ DISTRIBUTION TRANSFORMER. DELTA-WYE CONNECTED. FLOOR MOUNTED.
- CUSTOMER SUBMETERING INTERFACE
- PANEL 'B': 400 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE PANELBOARD. 42 CIRCUIT, c/w BOLT ON CIRCUIT BREAKERS, CUSTOMER SUBMETERING COMPARTMENT AND REQUIRED CT'S AND PT'S.
- 3 POLE LIGHTING CONTACTOR, 120V COIL; 20A, 120V CONTACTS
- PHOTO CELL
- LED SURFACE AMBIENT LUMINAIRE, 120V, 90 CRI SUSPENDED @ 2.5m A.F.F., 44W, 4000 LUMENS @ 4000K, LED SUPPLIED WITH FIXTURE.
- 1000W, 120V SLOPE TOP ELECTRIC BASEBOARD HEATER, c/w INTEGRAL THERMOSTAT.
- OUTDOOR LED WALL MOUNT LUMINAIRE, CRI WALL MOUNTED @ 2.5m A.F.F., 120V, 70 CRI, TYPE 3 DISTRIBUTION, CSA APPROVED, 42W, 4100 LUMENS @ 4000K, LED SUPPLIED WITH FIXTURE.

LEGEND:

- 15A, 120V, DUPLEX U-GROUND RECEPTACLE. SURFACE MOUNTED IN AN "FS" CAST BOX.
- 15A, 120V, DUPLEX U-GROUND GFCI RECEPTACLE. c/w WEATHERPROOF COVER.
- DOUBLE GANGED 15A, 120V TOGGLE SWITCHES. SURFACE MOUNTED IN AN "FS" CAST BOX.
- MANUAL MOTOR STARTER c/w THERMAL OVERLOAD HEATERS AND RED JEWELLED PILOT LIGHT
- 120V, 1 POLE REVERSE ACTING THERMOSTAT



EXHAUST FAN WIRING DIAGRAM & CONTROL SCHEMATIC

SCALE: 1:25

0mm 500mm 1000mm 1500mm 2000mm 2500mm

EXHAUST FAN NOTES:

- EXHAUST FAN (EF-1) TO BE SIDE WALL CENTRIFUGAL TYPE, c/w NEMA-1 DISCONNECT SWITCH, 120V MOTORIZED DAMPER, ALUMINUM HOUSING, ALUMINUM B.I. WHEEL, ALUMINUM BIRD SCREEN. ALL INTERIOR STEEL COMPONENTS (INCLUDING DAMPERS) TO BE COMPLETE WITH CORROSION RESISTANT COATING. FAN AIR FLOW-165 L/S AT 0.375" H O STATIC PRESSURE. DIRECT DRIVE, 120V 1/20 HP MOTOR. FAN TO BE SIMILAR TO GREENHECK MODEL CW-085. FOR FAN CONTROL DETAIL REFERENCE DETAIL 5, THIS DRAWING.
- ALL NEW DUCTWORK (INCLUDING WEATHER HOOD) TO BE ALUMINUM CONSTRUCTION, MINIMUM 16 GA. CONSTRUCTION FOR THE WEATHER HOOD.
- FRESH AIR DAMPER TO BE ALUMINUM CONSTRUCTION c/w 120V ACTUATOR.
- FRESH AIR DAMPER AND EXHAUST FAN OPERATION CONTROL BY REVERSE ACTING THERMOSTAT.
- ALL EQUIPMENT/WIRING ETC.... IN ELECTRICAL SHED TO BE SURFACE MOUNTED.

ROOF TYPICAL:

- 25 YR ASPHALT SHINGLES (TILE RED COLOR) C/W ADHESIVE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTION FOR LOW SLOPE COLD WEATHER APPLICATION.
- PRE-PAINTED WHITE METAL STARTER STRIP FULL PERIMETER OF ROOF.
- SELF-ADHESIVE ROOFING MEMBRANE (ICE AND WATER SHIELD) PURPOSE MADE FOR LOW SLOPE APPLICATION AND EAVE PROTECTION INSTALLED OVER ENTIRE ROOF.
- 19mm T&G PLYWOOD SHEATHING C/W ROOF CLIPS AT SQUARE EDGES.
- 38 x 189 JOISTS @ 400 c/c
- R28 INSULATION WITH VENT PANELS LOW TO HIGH EAVE.
- VAPOR BARRIER
- 16mm PLYWOOD JOINTS CAULKED, PAINTED WITH PRIMER AND TWO COATS OF INTERIOR LATEX WHITE.

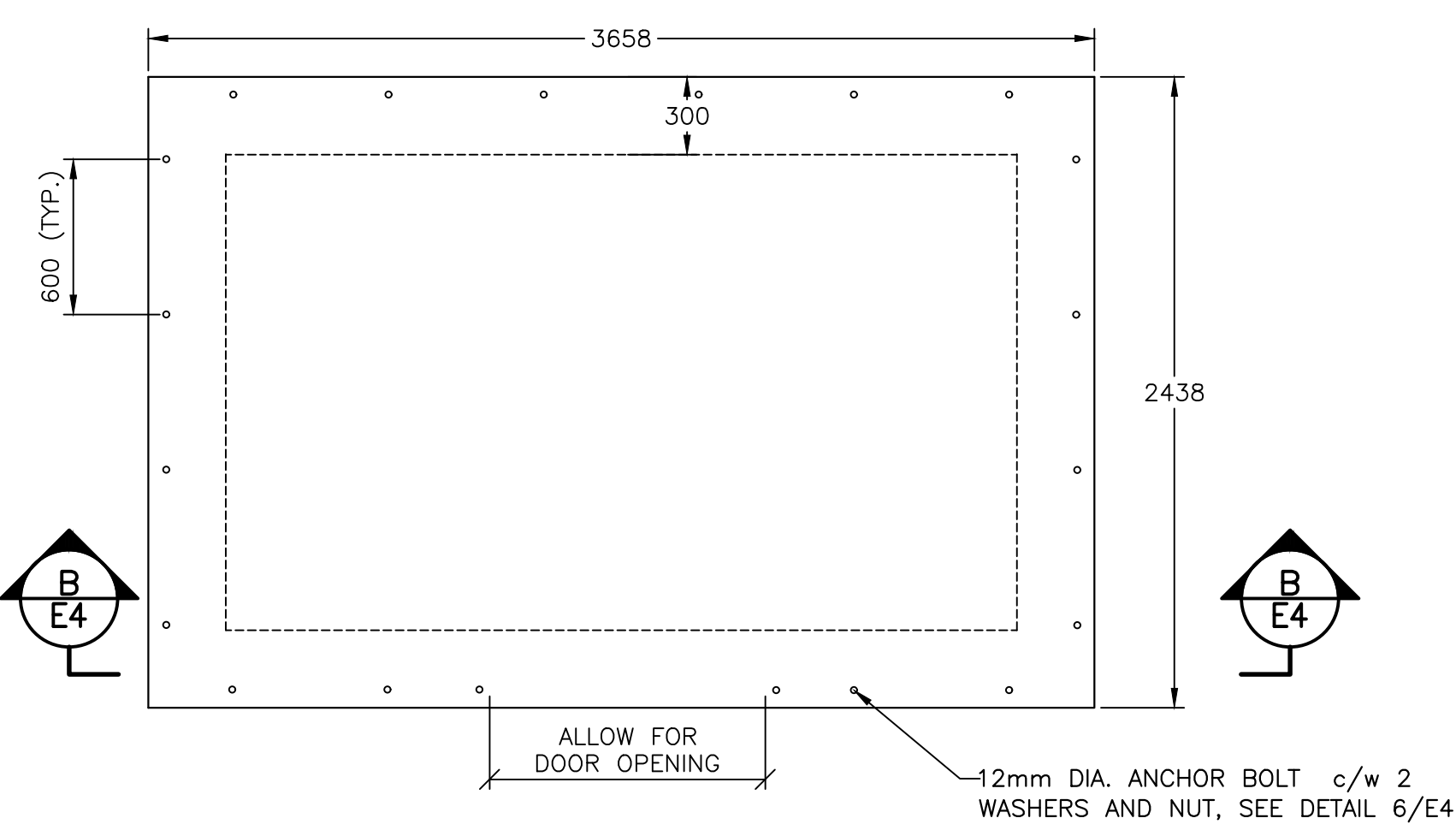
WALLS TYPICAL:

- EASTERN WHITE CEDAR SHINGLES 103mm TO WEATHER DIPPED IN WEATHERING STAIN PRIOR TO INSTALLATION. STAINLESS STEEL NAILS, WOVEN CORNERS.
- CONTINUOUS SHEET SEMI-PRIVACY P.T. LATTICE PANELS
- BUILDING PAPER
- 19mm PLYWOOD SHEATHING
- 38 x 140 STUDS @ 400 c/c
- R20 FIBERGLASS BATT INSULATION.
- VAPOR BARRIER
- 16mm PLYWOOD JOINTS CAULKED, PAINTED WITH PRIMER AND 2 COATS OF INTERIOR LATEX, WHITE

EXTEND SHEATHING AND WALL FINISH 50mm BEHIND TOP OF CONCRETE SLAB.

ELECTRICAL AND STRUCTURAL NOTES:

- EXHAUST FAN (EF-1) TO BE SIDE WALL CENTRIFUGAL TYPE, c/w NEMA-4X DISCONNECT SWITCH, 120V MOTORIZED DAMPER, ALUMINUM HOUSING, ALUMINUM B.I. WHEEL, ALUMINUM BIRD SCREEN. ALL INTERIOR STEEL COMPONENTS (INCLUDING DAMPERS) TO BE COMPLETE WITH CORROSION RESISTANT COATING. FAN AIR FLOW-165 L/S AT 0.375" H O STATIC PRESSURE. DIRECT DRIVE, 120V 1/20 HP MOTOR. FAN TO BE SIMILAR TO GREENHECK MODEL CW-085. FOR FAN CONTROL DETAIL REFERENCE DETAIL 5, DRAWING E4. SUBMIT EXHAUST FAN AND RELATED COMPONENTS SHOP DRAWING FOR REVIEW.
- ALL NEW DUCTWORK (INCLUDING WEATHER HOOD) TO BE ALUMINUM CONSTRUCTION, MINIMUM 16 GA. CONSTRUCTION FOR THE WEATHER HOOD.
- FRESH AIR DAMPER TO BE ALUMINUM CONSTRUCTION c/w 120V ACTUATOR.
- FRESH AIR DAMPER AND EXHAUST FAN OPERATION CONTROL BY REVERSE ACTING THERMOSTAT.
- PROVIDE 3 ADDITIONAL SPARE SLEEVES FOR FUTURE ADDITION. TERMINATE ALL CONDUIT SLEEVES 1000mm FROM THE EXTERIOR WALL. COORDINATE CONDUIT STUB UP LOCATIONS WITH ELECTRICAL EQUIPMENT LAYOUT.
- CONFIRM EXACT LOCATION OF SERVICE WEATHERHEAD AND METER BASE WITH NB POWER BEFORE INSTALLATION.
- PROVIDE 2/12 AWG + #12 BOND IN 21mm FROM THE BASEBOARD HEATER TO THE THERMOSTAT.
- STRUCTURE NOTES:
 - 35MPa CONCRETE. CSA A23.1.
 - 400MPa REINFORCED BARS.
 - ALL LUMBER SPF No. 2 OR BETTER.
 - SILL PLATES TO BE PRESSURE TREATED C/W SILL GASKETS.
 - PROVIDE 75mm CLEAR COVER TO ALL REINFORCED STEEL, UNLESS NOTED OTHERWISE.
 - INTERIOR PLYWOOD TO BE GOOD-ONE-SIDE, FILLED, SANDED AND PAINTED TO PROVIDE FINISHED INTERIOR WALL SURFACE.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

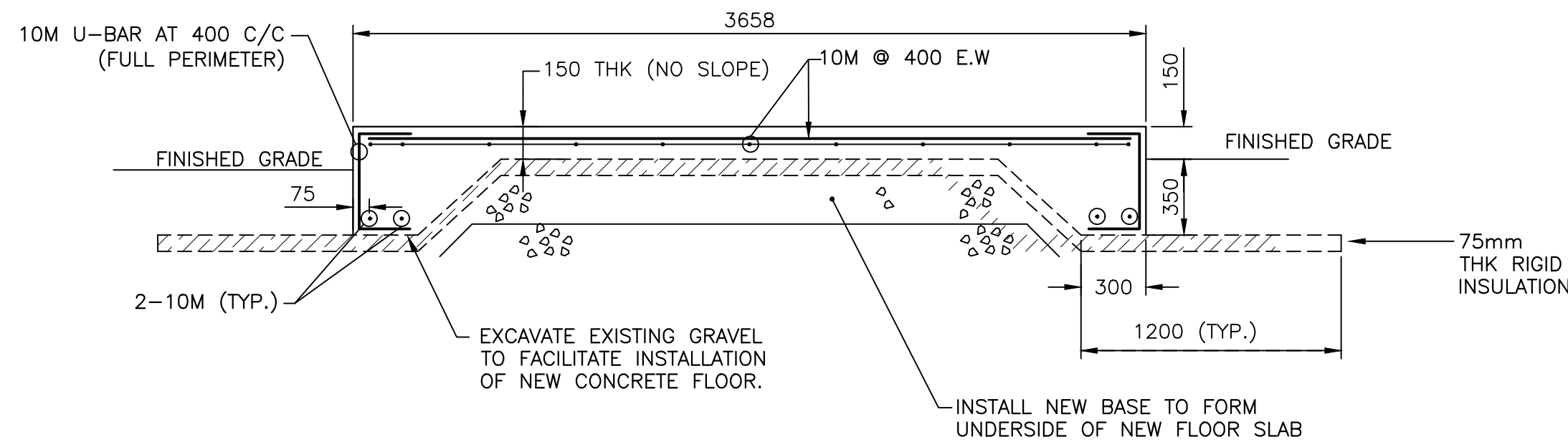


FLOOR SLAB DETAIL - PLAN VIEW

SCALE: 1:25

0mm 500mm 1000mm 1500mm 2000mm 2500mm

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS

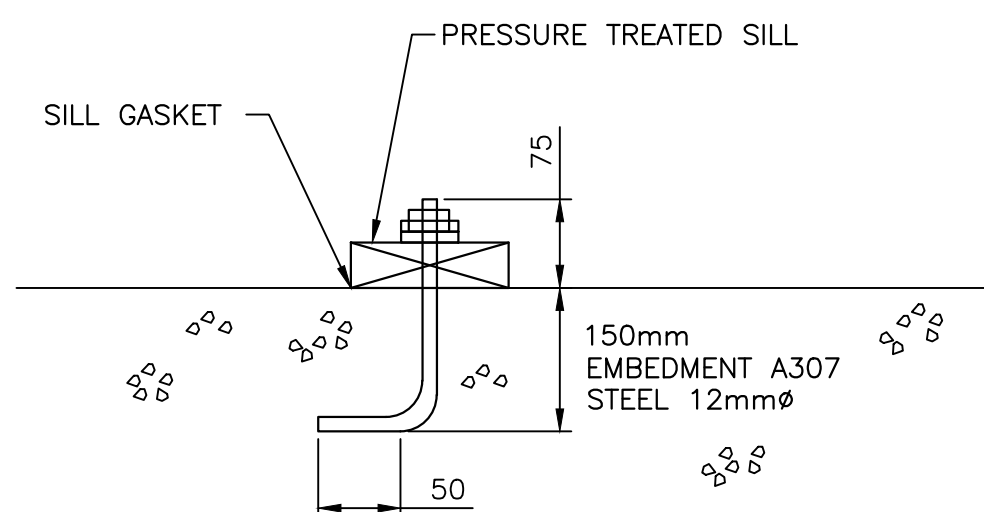


SECTION - FLOOR SLAB

SCALE: 1:25

0mm 500mm 1000mm 1500mm 2000mm 2500mm

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS



ANCHOR BOLT

SCALE: 1:25

0mm 500mm 1000mm 1500mm 2000mm 2500mm

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS

0	ISSUED FOR TENDER	SEPT. 2018
revisions		date

project UPPER PORT LATOUR HARBOUR IMPROVEMENTS

SHELBURNE COUNTY NOVA SCOTIA

drawing design

ELECTRICAL BUILDING DETAILS

designed K. WOLFE conçu

date SEPTEMBER 2018

drawn K. WOLFE dessiné

date SEPTEMBER 2018

approved approuvé

date

Tender Submission

IPWSC Project Manager Administrateur de projets IPWSC

project number no. du projet

R.097709.001

drawing no. no. du dessin

E4