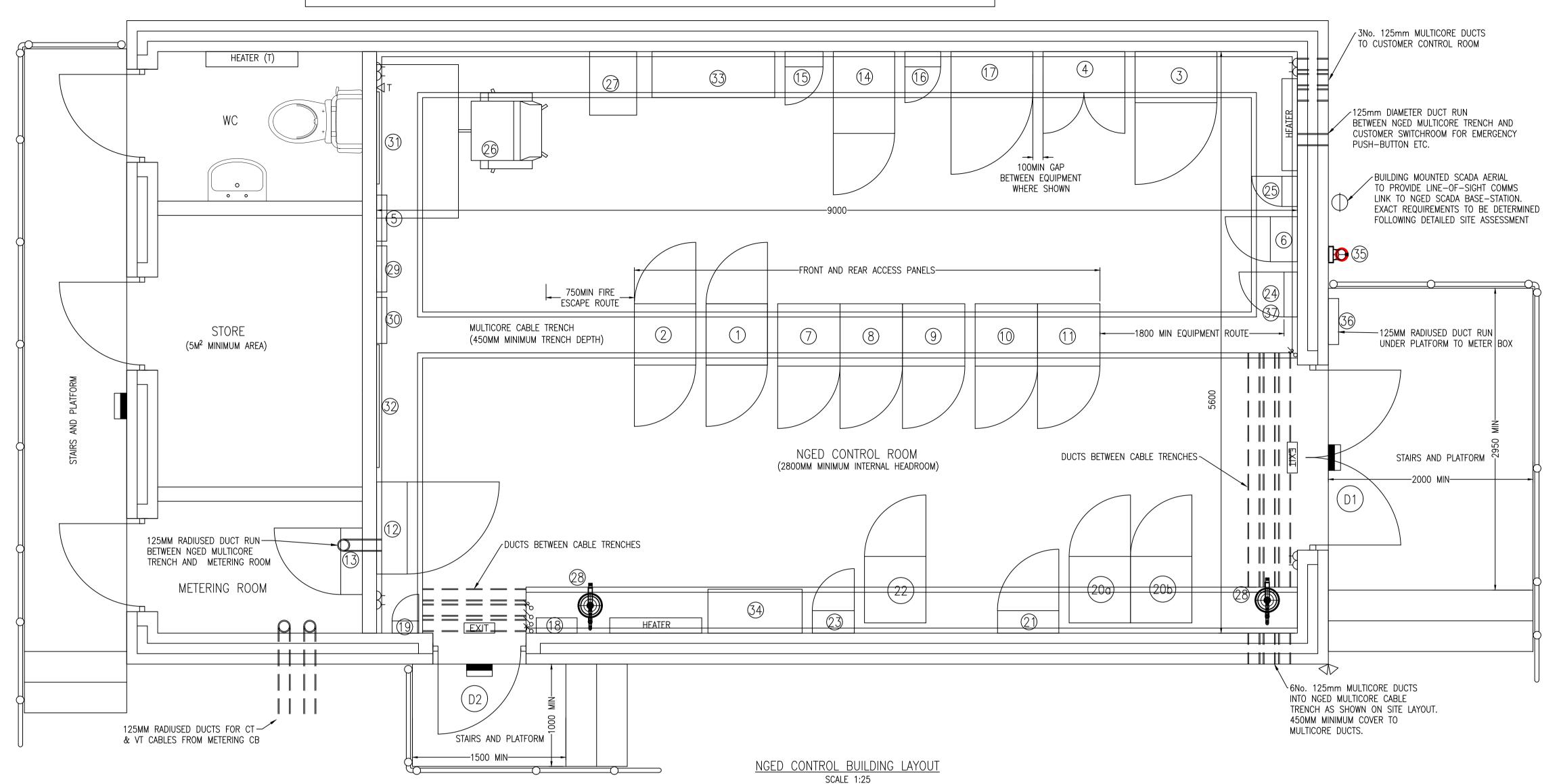
#### NOTE: TYPICAL NGED CONTROL BUILDING LAYOUT PROVIDED FOR GUIDANCE ONLY -THIS MAY BE SUBJECT TO CHANGE IN SITE SPECIFIC DETAILED DESIGN. NOT TO BE USED FOR CONSTRUCTION PURPOSES

FINISH FLOOR LEVEL FINISHED FLOOR LEVEL OF NGED CONTROL BUILDING SHALL BE RAISED TO MINIMISE FLOOD RISK. THIS IS A MINIMUM OF 500MM ABOVE GROUND LEVEL AND AT LEAST 500mm ABOVE THE 1 IN 1000 YEAR FLUVIAL FLOOD LEVEL OR 1 IN 1000 YEAR PLUVIAL FLOOD LEVEL AND 1 IN 200 YEAR TIDAL FLOOD LEVEL. LANDING PLATFORM/STEP DETAILS ADDRESSED

### <u>WC TO INCLUDE:</u>

- WC SUITE WASH HAND BASIN WITH COLD TAP AND INSTANTANEOUS
- ELECTRIC HOT WATER HEATER SEPARATE BIB TAP WITH DOUBLE CHECK VALVE FOR HOSE
- CONNECTION STOP TAP FOR INCOMING WATER SUPPLY
- WARM AIR HAND DRYER TOILET ROLL HOLDER
- COAT HOOK
- EXTRACTOR FAN WITH OVER -RUN TIMER CONNECTED TO LIGHTING CIRCUIT
- DOOR MATT WITH NON-SLIP BACKING





RELATE TO THOSE OF NGED VARIANTS & MAY BE DISCOUNTED IF NOT APPLICABLE

NOTE: TYPICAL EQUIPMENT SCHEDULE PROVIDED FOR GUIDANCE ONLY -

THESE MAY BE SUBJECT TO CHANGE IN SITE SPECIFIC DETAILED DESIGN

LVAC SUPPLY CUTOU \*WEIGHTS ARE INDICATIVE AND WHERE SPECIFIED FOR CONTESTABLE APPARATUS, THEY

# LEGEND — BUILDING SERVICES: ILLUMINATED EMERGENCY EXIT SIGN.

PIR ACTIVATED LED FLOOD LIGHT TWIN-HEAD LED FLOOD LIGHT

 $\Delta$ 

HEATER

SINGLE GANG 1 WAY SWITCH. SURFACE MOUNTED. METAL CLAD. (1NO. FOR BUILDING EXTERNAL LIGHTING, 1NO. FOR COMPOUND LIGHTING).

> SINGLE GANG 2 WAY SWITCH. SURFACE MOUNTED, METAL CLAD (2NO. SWITCHING ALL INTERNAL LIGHTING).

INTERNAL LIGHTING EMERGENCY LIGHTING KEY TEST SWITCH SURFACE MOUNTED, METAL CLAD.

BT MASTER SOCKET (DEDICATED EXT LINE)  $\triangleleft$ T

> 13A TWIN SWITCHED, SURFACE MOUNTED METAL CLAD SOCKET OUTLET WALL MOUNTED HEATER — RATED TO PROVIDE ROOM

> > ACTUATION FOR ALL NATIONAL GRID DOORS.

TEMPERATURE LIFT OF  $0-18^{\circ}$ C. (T) = BUILT IN THERMOSTAT INTRUDER ALARM (SINGLE ZONE) WITH DOOR CONTACT

BUILDING LVAC DISTRIBUTION BOARD WITH 4NO. SPARE 20A MCB WAYS RESERVED FOR NATIONAL GRID USE.

NOTE: EXACT REQUIREMENTS FOR NGED CONTROL, AND ASSOCIATED SCADA (AND POTENTIALLY INTERTRIPPING EQUIPMENT) ARE TO BE AGREED ON A PROJECT SPECIFIC BASIS

#### BUILDING SERVICES NOTES:

DOOR DETAILS

LIGHTING.

PUSH TO OPEN .

EXTERNAL DOOR ELEVATION INTERNAL DOOR ELEVATION

ACTIVE ← ↑ ← PASSIVE

1810

STRUCTURAL OPENING WIDTH

- PROVIDE INTERNAL LIGHTING WITH A MINIMUM ILLUMINANCE OF 300 LUX AVERAGE AT FLOOR LEVEL IN CONTROL ROOM AND METER ROOM, 200 LUX MINIMUM FOR WC & STORE ROOM. INTERNAL LIGHTING SHALL HAVE INTEGRAL EMERGENCY
- ALL EMERGENCY LIGHTING SHALL BE 3-HOUR DURATION SELF-CONTAINED, NON-MAINTAINED AND SHALL COMPLY WITH
- ALL INTERNAL LUMINAIRES SHALL HAVE A MINIMUM LUMINOUS EFFICACY OF 60 LUMEN / CIRCUIT WATT.

STRUCTURAL OPENING WIDTH

EXTERNAL DOOR

<u>ELEVATION</u>

- PUSH TO OPEN

<u>INTERNAL DOOR</u>

<u>ELEVATION</u>

#### CONTROL ROOM CONSTRUCTION NOTES:

- 1. DO NOT SCALE THIS DRAWING 2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE PROPOSED NGED TEE CONNECTION SITE LAYOUTS AND THE 132kV
- CONNECTION GUIDE DOCUMENT. 3. DETAILED CIVIL DESIGN IS THE RESPONSIBILITY OF THE CUSTOMER, BUT THE INFORMATION PROVIDED ON THIS DRAWING MAY BE INCORPORATED INTO THE CUSTOMERS OVERALL DETAILED CIVIL DESIGN DRAWINGS AS NECESSARY (ASSUMING THAT THE CUSTOMER HAS CHECKED THE VIABILITY OF THE INFORMATION TO THE PRESENTED SITE CONDITIONS).
- 4. GROUND INVESTIGATION, FLOOD SURVEY AND STRUCTURAL CALCULATIONS TO BE CARRIED OUT BY THE CUSTOMER.
- 5. EXTERNAL BUILDING FABRIC TO PROVIDE A U VALUE BETWEEN 0.18W/m²K AND 0.35W/m²K. 6. BUILDING TO PROVIDE 1 HOUR MINIMUM FIRE RATING.
- 7. TOLERANCES FOR FINISHED FLOOR IN NGED CONTROL ROOM TO BE =/- 3mm OVER 3.0m, OVERALL =/- 3mm 8. CONCRETE NGED CONTROL ROOM FLOORS TO RECEIVE POWER-FLOAT FINISH AND TREATED WITH WATCO CEMTECH ETCHING PRIMER,
- FOLLOWED BY TWO COATS OF WATCO SAFETY COAT, LIGHT GREY, 2ND COAT TO BE APPLIED AFTER INSTALLATION OF CONTROL EQUIPMENT, ALL TO MANUFACTURERS RECOMMENDATIONS (OR SIMILAR APPROVED). 9. PROVIDE ONE MIST COAT AND TWO TOP COATS OF BRILLIANT WHITE EMULSION TO INTERNAL WALLS AND CEILINGS.
- 10. WHERE THERE IS ANY RISK OF GROUND-WATER INGRESS, A SUMP OF INTERNAL DIMENSIONS 300x300x300mm SHALL BE PROVIDED WITHIN THE MULTICORE CABLE TRENCH FLOOR.
- 11. EARTHING CONNECTIONS TO REINFORCEMENT AND/OR PILES NEED TO BE IDENTIFIED ON STEEL REINFORCEMENT CIVIL DESIGN. 12. CABLE DUCTS TO BE 'EMTELLE' POWER PRODUCT, CLASS 1-SOLID, SMOOTH WALL PVC-U DUCT TO BE USED THROUGHOUT.
- 13. NGED APPROVED CABLE DUCT SEALING PRODUCTS EITHER 'ROXTEC', CSD RISE' OR 'HAUFTECNIK' TO BE USED THROUGHOUT. 14. AN UNOBSTRUCTED PASSAGEWAY OF 750MM WIDTH MUST BE PROVIDED ALONG FIRE ESCAPE ROUTES.

## DOOR NOTES:

ALL DOORS SHALL BE LPS1175 SR2 RATED & MIN 1 HOUR FIRE RATED. TO BE OUTWARD OPENING & CONSTRUCTED USING MAINTENANCE FREE MATERIALS. 2 NO. EARTH STRAPS PER DOORLEAF (ALIGNED WITH TOP & BOTTOM HINGES). LOW PROFILE DOOR THRESHOLD.

DOORS TO BE PROTECTED DURING INSTALLATION AND DURING INSTALLATION OF ELECTRICAL EQUIPMENT

THRESHOLD TO BE SEALED AGAINST THE DOOR TO PREVENT AGAINST COLD AND WEATHER INGRESS.

#### DOOR HARDWARE:

SINGLE POINT LOCKING SYSTEM WITH AUTO DEADLOCKING

SINGLE ACTION ESCAPE VIA PANIC BAR OVERRIDE

EXTERNAL ACCESS VIA HIGH SECURITY CYLINDER GUARD. KEYED EXTERNALLY VIA ABLOY RIM CYLINDER (CY405-PT-SC-MK) SUPPLIED FITTED AND LEVER HANDLE

PASSIVE LEAF RECEIVER AND 2NO. HEAVY DUTY TOWER BOLTS. TOP BOLT TO EXTEND DOWN TO 1750mm ABOVE FINISHED FLOOR LEVEL.

HEAVY DUTY DOOR STAY FITTED TO BOTH ACTIVE AND PASSIVE LEAF. STAYS TO BE CAPABLE OF HOLDING THE DOORS OPEN AT 90 DEGREES FITTED WITH EXTENDED HANDLES FOR RELEASE.

**Electricity** Engineering Design Department (East Midlands) national**grid Distribution** Pegasus Business Park, Castle Donington, DE74 2TU. Drg. No. NGED 145KV STANDARDS Rev No. A PJB KRS CH ---- CCP AND CCP INTERFACE RELOCATED ADJACENT TO METERING ROOM. TEED CONNECTION GCS0019-5 O JS KRS CH ---- FOR INFORMATION AS SHOWN@A1 TEE OFF SUBSTATION CONTROL ROOM LAYOUT Rev | Drawn | Chk'd | App'd | Date Revision Note

> DO NOT SCALE DRAWING. ONLY USE STATED DIMENSIONS. IF IN DOUBT, ASK. ALL RIGHTS ARE RESERVED TO NGED (EAST MIDLANDS) PLC. NO PART OF THIS DRAWING MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, INCLUDING PHOTOCOPYING AND RECORDING, OR STORED IN A RETRIEVAL SYSTEM OF ANY NATURE, WITHOUT PERMISSION.