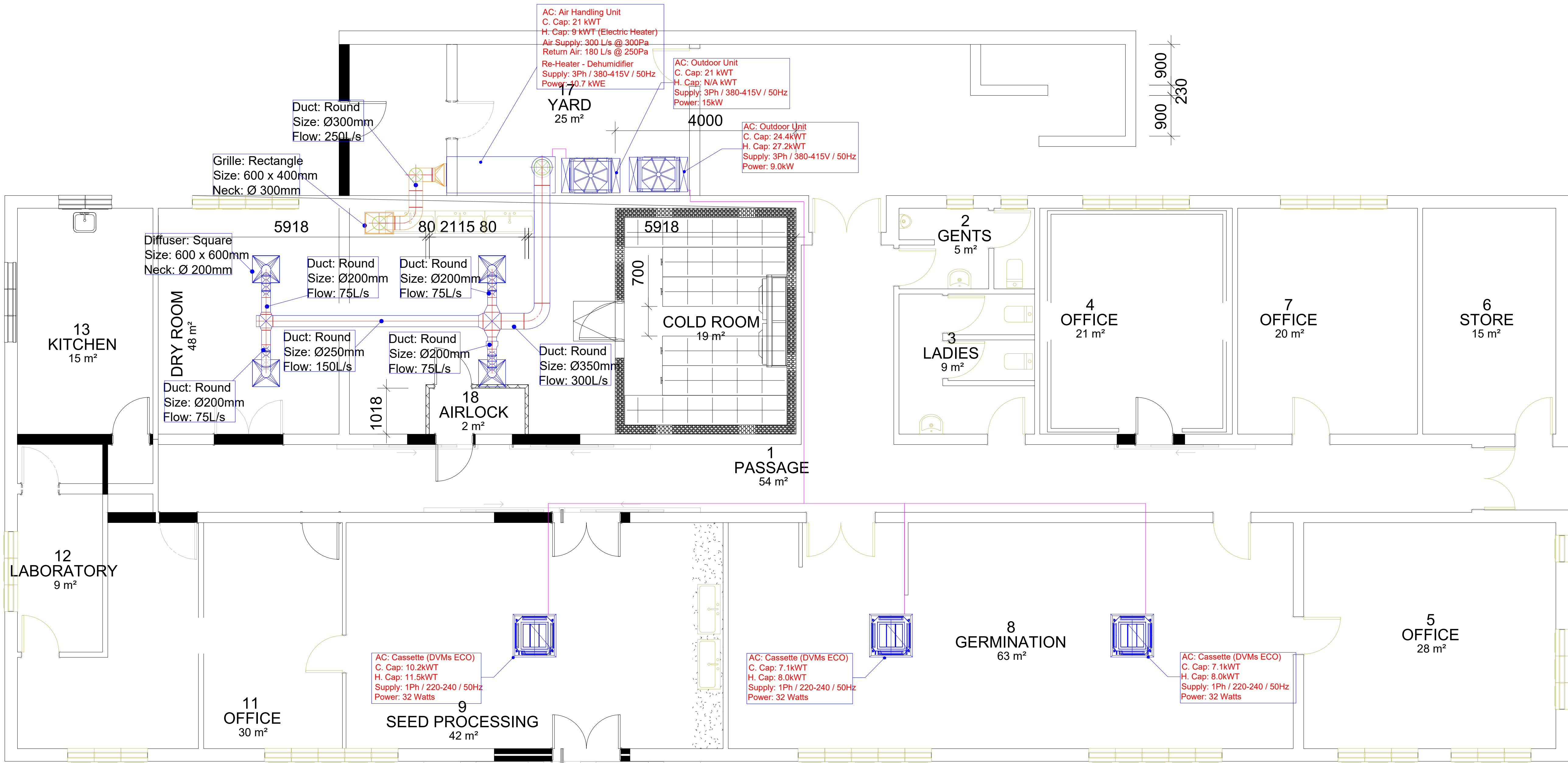




GENERAL NOTES

1. All dimensions are in millimeters unless otherwise stated.
2. Dimensions are to be READ and not scaled off from the drawing.
3. Contractor(s) are to confirm all dimensions on site prior to commencement of construction and any discrepancies are to be reported to the Mechanical Engineer

SPECIFIC INSTRUCTIONS

NOTES:

1. DUCTING TO BE MANUFACTURED IN ACCORDANCE TO SMACNA STANDARDS
 2. ALL DUCT DIMENSIONS INCLUDING DIMENSIONS FOR INSULATED DUCTS REFERS TO THE SHEET METAL SIZE.
 3. ALL DUCT PASSING THROUGH CONCRETE OR BRICK WALLS SHALL BE ISOLATED FROM THE WALLS BY MEANS OF A HIGH DENSITY GLOSS FIBRE COLLAR OF AT LEAST 25mm IN THICKNESS.
 4. GALVANISED STEEL SHALL BE USED FOR ALL AIR-CONDITIONING AND VENTILATION DUCTING
 5. ALL DUCTING SHALL BE PROVIDED WITH MEZZ FLANGES.
 6. ALL SUPPLY AND RETURN AIR DUCTING EXPOSED TO OUTDOORS SHALL BE EXTERNALLY DOUBLE CLADDED AND INSULATED AGAINST DIRECT SOLAR HEAT GAINS.
 7. ALL OPEN END DUCTS TO BE CAPPED OFF WITH PLASTIC PRIOR TO DELIVERY TO SITE.
 8. DUCT HANGERS
- | LONGEST DUCT DIMENSION (mm) | ROUND HANGER STRIP HANGERS (mm) | GALVANISED HANGERS (mm) | SHELF ANGLES | HANGER SPACING (m) |
|-----------------------------|---------------------------------|-------------------------|--------------|--------------------|
| UP TO 160 | 8 | 25x16 | 38x50x3 | 3.0 |
| 161 TO 1000 | 10 | 25x16 | 50x50x3 | 3.0 |
| 1000 TO 2100 | 10 | 25x16 | 50x50x3 | 2.4 |
| 2100 TO 2400 | 10 | 25x16 | 50x50x6 | 2.4 |
| 2401 TO ABOVE | 12 | 25x16 | 50x50x6 | 2.4 |
9. ALL DIFFUSER SUPPLY FLEXIBLE TO COME c/w JUBILEE CLAMPS AND SEALED WITH DUCT TAPE ON FINAL INSTALLATION.
 10. ALL SUPPLY AIR DUCTING TO BE INSULATED EXTERNALLY WITH 25mm FOIL FACED FIBREGLASS TYPE FRK - ONLY AC DUCT
 11. ALL FLEXIBLES TO BE THERMALLY INSULATED - ONLY AC DUCT

LEGEND

- T AMBIENT SENSOR MOUNTED DUCT
- W WALL MOUNTED THERMOSTAT MOUNTED @ 1450mm A.F.F.L
- DOOR UNDERCUT - 40mm
- P PRESSURE DISPLAY UNIT ABOVE DOOR

ELECTRICAL LEGEND

- 1P 1 PHASE ELECTRICAL EQUIPMENT
- 3P 3 PHASE ELECTRICAL EQUIPMENT
- SA PLUG COMPLETE WITH SHAVED EARTH PINS
- AC-DB
- P 8000 UNISTRUT 2 OFF

client:
SANBI - KIRSTENBOSCH

consultant:

OPTIMUM
ENGINEERING
CONSULTANTS

Unit 46
Derby Ranch
182 Derby Ranch
Northriding
2169

project description:
SANBI - SEED BANK

drawing:
MECHANICAL
HVAC SYSTEMS

design: T. C MANGO - 201521281

drawn: T. C MANGO - 201521281

checked: P. D MANJONJO

approved: P. D MANJONJO

scale: NOT TO SCALE

drawing number: OP23/M07/HVAC01
revision: 03

DETAILED DESIGN

ORIGINAL PAGE PLOT SIZE A1

2025/11/10