



LEVEL 8 - LOW LEVEL PART PLAN - M-200  
1:50

**LEGEND**

- UNINSULATED DUCTWORK. DUCT SIZES ARE SHEET METAL SIZES.
- G.S.S. DUCTWORK WITH 40mm THICK INTERNAL PERF FOIL FACED INSULATION. (R=1.2)
- G.S.S. DUCTWORK WITH 40mm THICK EXTERNAL FOIL FACED INSULATION. (R=1.2)
- G.S.S. DUCTWORK WITH 75mm THICK INTERNAL PERF FOIL FACED INSULATION. (R=2.0)
- G.S.S. DUCTWORK WITH 75mm THICK EXTERNAL FOIL FACED INSULATION. (R=2.0)
- G.S.S. DUCTWORK WITH 40mm THICK EXTERNAL Fyre WRAP & 40mm THICK INTERNAL PERF FOIL FACED INSULATION. (R=1.2)
- G.S.S. DUCTWORK WITH 100mm THICK INTERNAL PERF FOIL FACED INSULATION. (R=3.0)
- FLEXIBLE DUCTWORK WITH 38mm THICK EXTERNAL INSULATION AND VAPOUR BARRIER. (R=1.0) MAXIMUM DUCTWORK LENGTH: 3 METRES.
- AIR DIFFUSION SYMBOL. REFER SCHEDULE.
- U/S 2850 HEIGHT OF DUCT ABOVE AFL.
- 53.3.1 DUCT NUMBER.
- C CONTROL STATION MOUNTED AT 1500 AFL.
- T TEMPERATURE SENSOR MOUNTED AT 1500 AFL. CW WITH 10M OF COIL LEFT ON TOP OF VAV. PUSH BUTTON MOUNTED AT 1500 AFL.
- TD DRAINED TUNDISH BY OTHER TRADES.
- A 600x600 ACCESS PANEL UNLESS NOTED OTHERWISE.

**DUCT CONSTRUCTION NOTES.**

1. ALL DUCTWORK SIZES ARE SHEETMETAL SIZES.
2. ALL RADIUS BENDS AND TRANSITIONS SHALL HAVE THE FOLLOWING MINIMUM STRAIGHTS: BARE AND EXTERNAL INSULATION - 50mm. 50 INTERNAL INSULATION - 50mm. 75 INTERNAL INSULATION - 75mm. 100 INTERNAL INSULATION - 100mm.
3. ALL THROATS ON SQUARE BENDS SHALL BE 100 LONG UNLESS NOTED OTHERWISE.
4. DUCT ID LABELS ON TOP OF THE DUCT (NOT TO BE SEEN WHEN INSTALLED).
5. REFER TO REFLECTED CEILING PLAN FOR SET OUT LOCATIONS OF DIFFUSERS.
6. EXPOSED DUCTWORK TO BE HUNG WITH 'Z' BRACKET.
7. SPIRAL DUCTWORK SERVING C/H'S TO BE 200mm LONGER TO ALLOW FOR ON SITE ADJUSTMENTS.

**470 Dia FACE SWIRL DIFFUSER SCHEDULE - DWG ENV-M-L8-200**

| QTY | Mark | DESCRIPTION                        | SWIRL NECK DIA | SPIGOT | C/H HEIGHT |
|-----|------|------------------------------------|----------------|--------|------------|
| 6   | SW2  | KRANTZ - SUPPLY AIR SWIRL DIFFUSER | 350            | 200    | 350        |
| 6   | SW3  | KRANTZ - SUPPLY AIR SWIRL DIFFUSER | 350            | 250    | 400        |
| 4   | SW4  | KRANTZ - SUPPLY AIR SWIRL DIFFUSER | 350            | 300    | 450        |

**DOOR GRILLE SCHEDULE - DWG ENV-M-L8-200**

| QTY | TAG | DESCRIPTION | NECK WIDTH | NECK HEIGHT | DOOR THICKNESS |
|-----|-----|-------------|------------|-------------|----------------|
| 1   | DG1 | DOOR GRILLE | 450        | 150         | TBC            |

**SUPPLY AIR DIFFUSION SCHEDULE - DWG ENV-M-L8-200**

| QTY | TAG | DESCRIPTION             | CH HEIGHT | NECK LENGTH | NECK WIDTH | SPIGOT SIZE | COMMENTS   |
|-----|-----|-------------------------|-----------|-------------|------------|-------------|------------|
| 1   | LB4 | 2 SLOT LINEAR BOOT ONLY | 400       | 700         | 100        | 200         |            |
| 1   | LR5 | 2 SLOT LINEAR SLOT ONLY |           | 5000        | 96         |             | RELIEF AIR |
| 1   | LR6 | 2 SLOT LINEAR SLOT ONLY |           | 6500        | 96         |             | RELIEF AIR |
| 1   | LS4 | 2 SLOT LINEAR SLOT ONLY |           | 700         | 96         |             |            |

**RETURN AIR DIFFUSION SCHEDULE - DWG ENV-M-L8-200**

| QTY | TAG | DESCRIPTION       | CH HEIGHT | FACE LENGTH | FACE WIDTH | NECK LENGTH | NECK WIDTH | COMMENTS |
|-----|-----|-------------------|-----------|-------------|------------|-------------|------------|----------|
| 2   | RA1 | LINEAR BAR GRILLE |           |             |            | 3000        | 250        |          |

**TRANSFER AIR DIFFUSION SCHEDULE - DWG ENV-M-L8-200**

| QTY | TAG | DESCRIPTION         | CH HEIGHT | FACE LENGTH | FACE WIDTH | NECK LENGTH | NECK WIDTH | SPIGOT SIZE | COMMENTS |
|-----|-----|---------------------|-----------|-------------|------------|-------------|------------|-------------|----------|
| 2   | TA2 | HALF CHEVRON GRILLE | 350       | 295         | 295        | 250         | 250        | 200         |          |

**EXHAUST AIR DIFFUSION SCHEDULE - DWG ENV-M-L8-200**

| QTY | TAG | DESCRIPTION         | CH HEIGHT | FACE LENGTH | FACE WIDTH | NECK LENGTH | NECK WIDTH | SPIGOT SIZE | COMMENTS    |
|-----|-----|---------------------|-----------|-------------|------------|-------------|------------|-------------|-------------|
| 1   | TE1 | HALF CHEVRON GRILLE | 300       | 245         | 245        | 200         | 200        | 150         | CW WITH OBD |
| 2   | TE3 | HALF CHEVRON GRILLE | 350       | 295         | 295        | 250         | 250        | 200         | CW WITH OBD |

**FIRE DAMPER SCHEDULE - DWG ENV-M-L8-200**

| TAG     | MAKE    | MODEL | TYPE        | STYLE   | HEIGHT | WIDTH | COMMENTS |
|---------|---------|-------|-------------|---------|--------|-------|----------|
| FD.L8.1 | BULLOCK | 4900  | DUCT - DUCT | CURTAIN | 300    | 600   |          |
| FD.L8.2 | BULLOCK | 4900  | DUCT - DUCT | CURTAIN | 150    | 150   |          |

**MSD SCHEDULE - DWG ENV-M-L8-200**

| TAG      | MAKE    | MODEL | STYLE      | WIDTH | HEIGHT | LENGTH | COMMENTS |
|----------|---------|-------|------------|-------|--------|--------|----------|
| MSD.L8.4 | BULLOCK | 6700  | MULTIBLADE | 1400  | 800    | 165    |          |
| MSD.L8.5 | BULLOCK | 6700  | MULTIBLADE | 250   | 200    | 165    |          |
| MSD.L8.6 | BULLOCK | 6700  | MULTIBLADE | 150   | 200    | 165    |          |

**VAV SCHEDULE - DWG ENV-M-L8-200**

| TAG       | MAKE    | MODEL                  | MAX FLOW | MIN FLOW | MAX INTLET VELOCITY | MIN INTLET VELOCITY | HEATING kW | COMMENTS |
|-----------|---------|------------------------|----------|----------|---------------------|---------------------|------------|----------|
| VAV-L8-L1 | JOHNSON | TSS-7T-000-00-12-R-30A | 450 L/s  | 180 L/s  | 6.3                 | 2.5                 | -          |          |
| VAV-L8-L2 | JOHNSON | TSS-7T-000-00-10-R-30A | 340 L/s  | 136 L/s  | 6.9                 | 2.7                 | -          |          |
| VAV-L8-L3 | JOHNSON | TSS-7T-000-00-10-R-30A | 430 L/s  | 172 L/s  | 8.7                 | -                   | -          |          |
| VAV-L8-S1 | JOHNSON | TSS-7T-000-E1-10-R-30A | 375 L/s  | 150 L/s  | 7.6                 | 3.0                 | 15         |          |
| VAV-L8-S2 | JOHNSON | TSS-7T-000-E1-10-R-30A | 365 L/s  | 146 L/s  | 7.4                 | 3.0                 | 15         |          |

| REV | DESCRIPTION             | DATE     | DRN | CHK |
|-----|-------------------------|----------|-----|-----|
| 2   | AS CONSTRUCTED          | 8.11.19  | IW  | PC  |
| 1   | ISSUED FOR CONSTRUCTION | 13.09.19 | CO  | PC  |
| A   | ISSUED FOR REVIEW       | 17.07.19 | CO  | PC  |

CONTRACTOR:

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TITLE:  
**125 MURRAY STREET  
125 MURRAY STREET, PERTH  
LEVEL 8 LOW LEVEL PART LAYOUT  
MECHANICAL SERVICES**

|                  |                          |                     |          |
|------------------|--------------------------|---------------------|----------|
| DATE:<br>8.11.19 | SCALE:<br>AS INDICATED @ | DRAWING NO.:        | REV.:    |
| DRAWN:<br>CO     | CHECKED:<br>PC           | <b>ENV-M-L8-200</b> | <b>2</b> |