

S-1 CONTROLS SCHEMATIC

| PUMP SCHEDULE |             |       |     |         |      |      |                |
|---------------|-------------|-------|-----|---------|------|------|----------------|
| TAG           | MODEL       | SIZE  | GPM | HEAD FT | HP   | RPM  | REMARKS        |
| P-1           | SERIES H    | H32   | 20  | 9       | 0.17 | 1750 | ARMSTRONG INC. |
| P-2           | SERIES H    | H32   | 20  | 9       | 0.17 | 1750 | ARMSTRONG INC. |
| P-3           | SERIES 4300 | 2X2X6 | 49  | 28      | 1.0  | 1740 | ARMSTRONG INC. |
| P-4           | SERIES 4300 | 2X2X6 | 49  | 28      | 1.0  | 1740 | ARMSTRONG INC. |


| DIFFUSERS AND GRILLES SCHEDULE |                     |             |              |              |
|--------------------------------|---------------------|-------------|--------------|--------------|
| TAG                            | DESCRIPTION         | SIZE INCHES | MODEL        | MANUFACTURER |
| A                              | SUPPLY AIR DIFFUSER | 24X24       | ASCD         | EH PRICE     |
| B                              | SUPPLY AIR DIFFUSER | 12X12       | ASCD         | EH PRICE     |
| C                              | RETURN AIR GRILLE   | 24X24       | 80-EGG CRATE | EH PRICE     |

| CONDENSING UNIT SCHEDULE |          |                  |         |              |            |         |
|--------------------------|----------|------------------|---------|--------------|------------|---------|
| TAG                      | MODEL    | AMBIENT TEMP. °F | SST, °F | CAPACITY MBH | EER BTU/kW | REMARKS |
| CU-1                     | RAUC-C40 | 95               | 45      | 480          | 11.5       | TRANE   |

| FAN SCHEDULE |                      |              |             |              |          |                      |            |      |          |              |
|--------------|----------------------|--------------|-------------|--------------|----------|----------------------|------------|------|----------|--------------|
| TAG          | AREA SERVED          | LOCATION     | MODEL       | AIR FLOW CFM | S.P. "WG | OUTLET VELOCITY, FPM | MOTOR SIZE |      | VOLTAGE  | MANUFACTURER |
|              |                      |              |             |              |          |                      | RPM        | HP   |          |              |
|              | COMMON SUPPLY        | S-1          | CA-210      | 11,600       | 4.31     | 2500                 | 1800       | 15   | 575/3/60 | COOK INC.    |
| RF-1         | COMMON RETURN        | MECH.ROOM    | CA-210      | 10,370       | 1.1      | 2400                 | 1300       | 5    | 575/3/60 | COOK INC.    |
| EF-1         | ELECTRICAL ROOM #112 | ELEC. RM     | SWD, 10S15D | 210          | 0.3      | -                    | 1350       | 1/20 | 120/1/60 | COOK INC.    |
| EF-2         | MECH. ROOM #121      | MECH.ROOM    | SWD, 24S10D | 850          | 0.5      | -                    | 850        | 1/2  | 120/1/60 | COOK INC.    |
| EF-3         | LUNCH ROOM           | LUNCH ROOM   | 120VCR2B    | 420          | 0.4      | -                    | -          | 1/6  | 120/1/60 | COOK INC.    |
| EF-4         | DARK ROOM #102, 103  | DARK RM.     | 90SQ10D     | 350          | 0.25     | -                    | 1075       | 1/6  | 120/1/60 | COOK INC.    |
| EF-5         | WASHROOMS #117, 118  | ROOF MOUNTED | 90C10DH     | 210          | 0.25     | 2478                 | 1050       | 1/25 | 120/1/60 | COOK INC.    |

NOTE: MANUFACTURER: LOREN COOK INC.

|                      |  |      |    |
|----------------------|--|------|----|
| Issued for:          | No.  | Date | By |
| Revisions to drawing |  |      |    |
| LEGEND               |  |      |    |
|                      | - HEATING (REHEAT) COIL                    |      |    |
|                      | - COOLING COIL                             |      |    |
|                      | - THERMISTAT OR TEMPERATURE SENSOR         |      |    |
|                      | - CONTROL WIRE                             |      |    |
|                      | - BASEBOARD HEATER                         |      |    |
|                      | - HOT WATER SUPPLY                         |      |    |
|                      | - HOT WATER RETURN                         |      |    |
|                      | - HOT WATER REVERSE RETURN                 |      |    |
|                      | - REFRIGERANT SUCTION PIPE                 |      |    |
|                      | - REFRIGERANT DISCHARGE PIPE               |      |    |
|                      | - COLD WATER PIPE                          |      |    |
|                      | - GAS PIPE                                 |      |    |
|                      | - STRAINER                                 |      |    |
|                      | - DIFFERENTIAL PRESSURE-REDUCING REGULATOR |      |    |
|                      | - PRESSURE-REDUCING VALVE                  |      |    |
|                      | - CIRCUIT BALANCING VALVE                  |      |    |
|                      | - 3-WAY VALVE                              |      |    |
|                      | - 2-WAY VALVE                              |      |    |
|                      | - GATE VALVE                               |      |    |
|                      | - BALL VALVE                               |      |    |
|                      | - BUTTERFLY VALVE                          |      |    |
|                      | - CHECK VALVE OR BACK FLOW PREVENTER       |      |    |
|                      | - ANALOG INPUT AND OUTPUT SIGNALS          |      |    |
|                      | - DIGITAL INPUT AND OUTPUT SIGNALS         |      |    |
|                      | - STARTER                                  |      |    |
|                      | - AVERAGING TEMPERATURE SENSOR             |      |    |
|                      | - AVERAGING RH SENSOR                      |      |    |
|                      | - MOTORIZED DAMPER                         |      |    |



The Academy of HVAC Engineering Ltd.

|               |             |                              |  |
|---------------|-------------|------------------------------|--|
| Project title |             | BUILDING OF GENERAL SERVICES |  |
| Checked by    | Scale       | N.T.S.                       |  |
| ID            | Date        |                              |  |
| Sheet title   | Drawing no. | SCHEDULES, SCHEMATICS M-2B   |  |