

ELECTRIC HUMIDIFIER SCHEDULE

| UNIT NO. | LOCATION | SERVICE | TYPE | CAPACITY LB/H | HEATER | | | | MANUFACTURER/ MODEL NO. | REMARKS |
|----------------|----------------|---------------|----------|---------------|--------|-----|----|----|-------------------------|---|
| | | | | | KW | V | PH | HZ | | |
| W-CS-107-HU-01 | CORNER STATION | LVEA | ELECTRIC | 75 | 26 | 460 | 3 | 60 | NORTEC NH-075 | DOMESTIC WATER W/ BLOWDOWN CYCLE |
| W-CS-107-HU-02 | CORNER STATION | LVEA | ELECTRIC | 75 | 26 | 460 | 3 | 60 | NORTEC NH-075 | DOMESTIC WATER W/ BLOWDOWN CYCLE |
| W-CS-107-HU-03 | CORNER STATION | LVEA | ELECTRIC | 75 | 26 | 460 | 3 | 60 | NORTEC NH-075 | DOMESTIC WATER W/ BLOWDOWN CYCLE |
| W-CS-107-HU-04 | CORNER STATION | LVEA | ELECTRIC | 75 | 26 | 460 | 3 | 60 | NORTEC NH-075 | DOMESTIC WATER W/ BLOWDOWN CYCLE |
| W-CS-107-HU-05 | CORNER STATION | OSB | ELECTRIC | 50 | 17 | 460 | 3 | 60 | NORTEC NH-075 | DOMESTIC WATER W/ BLOWDOWN CYCLE |
| W-CS-107-HU-06 | CORNER STATION | OSB | ELECTRIC | 50 | 17 | 460 | 3 | 60 | NORTEC NH-075 | DOMESTIC WATER W/ BLOWDOWN CYCLE |
| W-CS-160-HU-01 | CORNER STATION | OSB | ELECTRIC | 150 | 52 | 460 | 3 | 60 | NORTEC NH-075 | DOMESTIC WATER W/ BLOWDOWN CYCLE |
| W-MA-203-HU-01 | MID STATION A | MID STATION A | ELECTRIC | 40 | 14 | 460 | 3 | 60 | DRI STEEM M-DI-16-1 | RO & DEMINERALIZED OR DISTILLED WATER W/O BLOWDOWN CYCLE |
| W-MA-203-HU-02 | MID STATION A | MID STATION A | ELECTRIC | 40 | 14 | 460 | 3 | 60 | DRI STEEM M-DI-16-1 | RO & DEMINERALIZED OR DISTILLED WATER W/O BLOWDOWN CYCLE, STANDBY |
| W-MB-203-HU-01 | MID STATION B | MID STATION B | ELECTRIC | 40 | 14 | 460 | 3 | 60 | DRI STEEM M-DI-16-1 | RO & DEMINERALIZED OR DISTILLED WATER W/O BLOWDOWN CYCLE |
| W-MB-203-HU-02 | MID STATION B | MID STATION B | ELECTRIC | 40 | 14 | 460 | 3 | 60 | DRI STEEM M-DI-16-1 | RO & DEMINERALIZED OR DISTILLED WATER W/O BLOWDOWN CYCLE, STANDBY |
| W-EA-203-HU-01 | END STATION A | END STATION A | ELECTRIC | 40 | 14 | 460 | 3 | 60 | DRI STEEM M-DI-16-1 | RO & DEMINERALIZED OR DISTILLED WATER W/O BLOWDOWN CYCLE |
| W-EA-203-HU-02 | END STATION A | END STATION A | ELECTRIC | 40 | 14 | 460 | 3 | 60 | DRI STEEM M-DI-16-1 | RO & DEMINERALIZED OR DISTILLED WATER W/O BLOWDOWN CYCLE, STANDBY |
| W-EB-203-HU-01 | END STATION B | END STATION B | ELECTRIC | 40 | 14 | 460 | 3 | 60 | DRI STEEM M-DI-16-1 | RO & DEMINERALIZED OR DISTILLED WATER W/O BLOWDOWN CYCLE |
| W-EB-203-HU-02 | END STATION B | END STATION B | ELECTRIC | 40 | 14 | 460 | 3 | 60 | DRI STEEM M-DI-16-1 | RO & DEMINERALIZED OR DISTILLED WATER W/O BLOWDOWN CYCLE, STANDBY |

OMIT

ELECTRIC DUCT HEATER SCHEDULE

| UNIT NO. | LOCATION | SERVICE | | HEATING CAPACITY (KW) | NUMBER OF STAGES | VOLTS/ PH/ HZ | DUCT SIZE (IN) | MANUFACTURER/ MODEL NO. | REMARKS |
|----------------|---------------|---------------|------------------------|-----------------------|------------------|---------------|----------------|-------------------------|---------|
| | | BUILDING | ROOM | | | | | | |
| W-CS-107-HC-01 | MECH ROOM | LVEA | LASER AREA - 1 | 75 | SCR | 460/3/60 | 48X36 | CHROMALOX DHIF | |
| W-CS-107-HC-02 | MECH ROOM | LVEA | LASER AREA - 2 | 150 | SCR | 460/3/60 | 48X60 | CHROMALOX DHIF | |
| W-CS-107-HC-03 | MECH ROOM | LVEA | LASER AREA - 3 | 150 | SCR | 460/3/60 | 48X60 | CHROMALOX DHIF | |
| W-CS-107-HC-04 | MECH ROOM | LVEA | LASER AREA - 4 | 100 | SCR | 460/3/60 | 48X36 | CHROMALOX DHIF | |
| W-CS-107-HC-05 | MECH ROOM | LVEA | LASER AREA - 5 | 100 | SCR | 460/3/60 | 48X36 | CHROMALOX DHIF | |
| W-CS-107-HC-06 | MECH ROOM | LVEA | MECHANICAL ROOM | 75 | 4 | 460/3/60 | 48X24 | CHROMALOX DHIF | |
| W-CS-107-HC-07 | MECH ROOM | LVEA | OUTSIDE AIR SUPPLY | 50 | 4 | 460/3/60 | 24X24 | CHROMALOX DHIF | |
| W-CS-107-HC-08 | MECH ROOM | LVEA | OUTSIDE AIR SUPPLY | 50 | 4 | 460/3/60 | 24X24 | CHROMALOX DHIF | |
| W-CS-107-HC-09 | AHU-3 | OSB | AHU - 3 | 50 | 4 | 460/3/60 | 30X48 | CHROMALOX DHIF | |
| W-CS-107-HC-10 | AHU-3 | OSB | AHU - 3 | 50 | 4 | 460/3/60 | 30X48 | CHROMALOX DHIF | |
| W-CS-107-HC-11 | MECH ROOM | OSB | OUTSIDE AIR SUPPLY | 15 | 2 | 460/3/60 | 18X12 | CHROMALOX DHIF | |
| W-CS-107-HC-12 | MECH ROOM | OSB | OUTSIDE AIR SUPPLY | 15 | 2 | 460/3/60 | 18X12 | CHROMALOX DHIF | |
| W-CS-160-HC-13 | MECH ROOM | AHU-4 | OUTSIDE AIR SUPPLY | 50 | 4 | 460/3/60 | 18X12 | CHROMALOX DHIF | |
| W-MA-203-HC-01 | MID STATION A | MID STATION A | OUTSIDE AIR SUPPLY | 8 | 2 | 460/3/60 | 18X12 | CHROMALOX DHIF | STANDBY |
| W-MA-203-HC-02 | MID STATION A | MID STATION A | OUTSIDE AIR SUPPLY | 8 | 2 | 460/3/60 | 18X12 | CHROMALOX DHIF | |
| W-MA-203-HC-03 | MID STATION A | MID STATION A | VEA | 75 | SCR | 460/3/60 | 30X36 | CHROMALOX DHIF | |
| W-MA-203-HC-04 | MID STATION A | MID STATION A | EXPERIMENT EQUIPMENT | 6 | 2 | 460/3/60 | 24X12 | CHROMALOX DHIF | |
| W-MA-203-HC-05 | MID STATION A | MID STATION A | CLEANING & CHANGE ROOM | 6 | 2 | 460/3/60 | 24X12 | CHROMALOX DHIF | |
| W-MA-203-HC-06 | MID STATION A | MID STATION A | INSPECTION/SHIP/REC. | 9 | 2 | 460/3/60 | 24X12 | CHROMALOX DHIF | |
| W-MA-203-HC-07 | MID STATION A | MID STATION A | MECHANICAL ROOM | 12 | 4 | 460/3/60 | 24X18 | CHROMALOX DHIF | |
| W-MA-203-HC-08 | MID STATION A | MID STATION A | VACUUM SUPPORT RM. | 12 | 2 | 460/3/60 | 18X18 | CHROMALOX DHIF | |
| W-EA-203-HC-01 | END STATION A | END STATION A | OUTSIDE AIR SUPPLY | 8 | 2 | 460/3/60 | 18X12 | CHROMALOX DHIF | STANDBY |
| W-EA-203-HC-02 | END STATION A | END STATION A | OUTSIDE AIR SUPPLY | 8 | 2 | 460/3/60 | 18X12 | CHROMALOX DHIF | |
| W-EA-203-HC-03 | END STATION A | END STATION A | VEA | 75 | SCR | 460/3/60 | 30X36 | CHROMALOX DHIF | |
| W-EA-203-HC-04 | END STATION A | END STATION A | EXPERIMENT EQUIPMENT | 6 | 2 | 460/3/60 | 24X12 | CHROMALOX DHIF | |
| W-EA-203-HC-05 | END STATION A | END STATION A | CLEANING & CHANGE ROOM | 6 | 2 | 460/3/60 | 24X12 | CHROMALOX DHIF | |
| W-EA-203-HC-06 | END STATION A | END STATION A | INSPECTION/SHIP/REC. | 9 | 2 | 460/3/60 | 24X12 | CHROMALOX DHIF | |
| W-EA-203-HC-07 | END STATION A | END STATION A | MECHANICAL ROOM | 12 | 4 | 460/3/60 | 24X18 | CHROMALOX DHIF | |
| W-EA-203-HC-08 | END STATION A | END STATION A | VACUUM SUPPORT RM. | 12 | 2 | 460/3/60 | 18X18 | CHROMALOX DHIF | |
| W-MB-203-HC-01 | MID STATION B | MID STATION B | OUTSIDE AIR SUPPLY | 8 | 2 | 460/3/60 | 18X12 | CHROMALOX DHIF | STANDBY |
| W-MB-203-HC-02 | MID STATION B | MID STATION B | OUTSIDE AIR SUPPLY | 8 | 2 | 460/3/60 | 18X12 | CHROMALOX DHIF | |
| W-MB-203-HC-03 | MID STATION B | MID STATION B | VEA | 75 | SCR | 460/3/60 | 30X36 | CHROMALOX DHIF | |
| W-MB-203-HC-04 | MID STATION B | MID STATION B | EXPERIMENT EQUIPMENT | 6 | 2 | 460/3/60 | 24X12 | CHROMALOX DHIF | |
| W-MB-203-HC-05 | MID STATION B | MID STATION B | CLEANING & CHANGE ROOM | 6 | 2 | 460/3/60 | 24X12 | CHROMALOX DHIF | |
| W-MB-203-HC-06 | MID STATION B | MID STATION B | INSPECTION/SHIP/REC. | 9 | 2 | 460/3/60 | 24X12 | CHROMALOX DHIF | |
| W-MB-203-HC-07 | MID STATION B | MID STATION B | MECHANICAL ROOM | 12 | 4 | 460/3/60 | 24X18 | CHROMALOX DHIF | |
| W-MB-203-HC-08 | MID STATION B | MID STATION B | VACUUM SUPPORT RM. | 12 | 2 | 460/3/60 | 18X18 | CHROMALOX DHIF | |
| W-EB-203-HC-01 | END STATION B | END STATION B | OUTSIDE AIR SUPPLY | 8 | 2 | 460/3/60 | 18X12 | CHROMALOX DHIF | STANDBY |
| W-EB-203-HC-02 | END STATION B | END STATION B | OUTSIDE AIR SUPPLY | 8 | 2 | 460/3/60 | 18X12 | CHROMALOX DHIF | |
| W-EB-203-HC-03 | END STATION B | END STATION B | VEA | 75 | SCR | 460/3/60 | 30X36 | CHROMALOX DHIF | |
| W-EB-203-HC-04 | END STATION B | END STATION B | EXPERIMENT EQUIPMENT | 6 | 2 | 460/3/60 | 24X12 | CHROMALOX DHIF | |
| W-EB-203-HC-05 | END STATION B | END STATION B | CLEANING & CHANGE ROOM | 6 | 2 | 460/3/60 | 24X12 | CHROMALOX DHIF | |
| W-EB-203-HC-06 | END STATION B | END STATION B | INSPECTION/SHIP/REC. | 9 | 2 | 460/3/60 | 24X12 | CHROMALOX DHIF | |
| W-EB-203-HC-07 | END STATION B | END STATION B | MECHANICAL ROOM | 12 | 4 | 460/3/60 | 24X18 | CHROMALOX DHIF | |
| W-EB-203-HC-08 | END STATION B | END STATION B | VACUUM SUPPORT RM. | 12 | 2 | 460/3/60 | 18X18 | CHROMALOX DHIF | |
| W-CS-194-HC-14 | CORNER STN | MAINTENANCE | OFFICE | 25 | 4 | 460/3/60 | 12X8 | CHROMALOX DHIF | |

OMIT

NOTES:
1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEETS WA-H-001 AND WA-H-002.

VAV TERMINAL SCHEDULE - SINGLE DUCT

| SIZE | LOCATION | SERVICE | TYPE | INLET SIZE (IN.) | MAX ACFM | MIN ACFM | MAX BOX AIR PD (IN. WG) | HEATING COIL | | MANUFACTURER/ MODEL NO. | REMARKS |
|------|----------|---------|----------------------|------------------|----------|----------|-------------------------|--------------|---------|-------------------------|------------------------------|
| | | | | | | | | KW | V/PH/HZ | | |
| 01 | OSB | OSB | PRESSURE INDEPENDENT | 4 | 100 | (1) | 0.15 | 4 | 2 | 208/1/60 | PROVIDED WITH 36" ATTENUATOR |
| 02 | OSB | OSB | PRESSURE INDEPENDENT | 5 | 200 | (1) | 0.20 | 4 | 2 | 208/1/60 | PROVIDED WITH 36" ATTENUATOR |
| 03 | OSB | OSB | PRESSURE INDEPENDENT | 6 | 300 | (1) | 0.30 | 4 | 2 | 208/1/60 | PROVIDED WITH 36" ATTENUATOR |
| 04 | OSB | OSB | PRESSURE INDEPENDENT | 7 | 450 | (1) | 0.30 | 7.5 | 2 | 208/1/60 | PROVIDED WITH 36" ATTENUATOR |
| 05 | OSB | OSB | PRESSURE INDEPENDENT | 8 | 600 | (1) | 0.30 | 7.5 | 2 | 208/1/60 | PROVIDED WITH 36" ATTENUATOR |
| 06 | OSB | OSB | PRESSURE INDEPENDENT | 9 | 750 | (1) | 0.30 | 13.0 | 2 | 460/3/60 | PROVIDED WITH 36" ATTENUATOR |
| 07 | OSB | OSB | PRESSURE INDEPENDENT | 10 | 950 | (1) | 0.30 | 13.0 | 2 | 460/3/60 | PROVIDED WITH 36" ATTENUATOR |
| 08 | OSB | OSB | PRESSURE INDEPENDENT | 12 | 1300 | (1) | 0.30 | 19.0 | 2 | 460/3/60 | PROVIDED WITH 36" ATTENUATOR |

SEE FLOOR PLANS

VAV TERMINAL SCHEDULE - DOUBLE DUCT

| SIZE | LOCATION | SERVICE | TYPE | INLET SIZE (IN.) | COLD AIR | | WARM AIR | | MAX BOX AIR PD (IN. WG) | MANUFACTURER/ MODEL NO. | REMARKS |
|------|----------|---------|----------------------|------------------|----------|----------|----------|----------|-------------------------|-------------------------|------------------------------|
| | | | | | MAX ACFM | MIN ACFM | MAX ACFM | MIN ACFM | | | |
| 01 | OSB | OSB | PRESSURE INDEPENDENT | 4 | 100 | 0 | 100 | 0 | 0.15 | TITUS EDV-3000 | PROVIDED WITH 36" ATTENUATOR |
| 02 | OSB | OSB | PRESSURE INDEPENDENT | 5 | 200 | 0 | 200 | 0 | 0.20 | TITUS EDV-3000 | PROVIDED WITH 36" ATTENUATOR |
| 03 | OSB | OSB | PRESSURE INDEPENDENT | 6 | 300 | 0 | 300 | 0 | 0.30 | TITUS EDV-3000 | PROVIDED WITH 36" ATTENUATOR |
| 04 | OSB | OSB | PRESSURE INDEPENDENT | 7 | 450 | 0 | 450 | 0 | 0.30 | TITUS EDV-3000 | PROVIDED WITH 36" ATTENUATOR |
| 05 | OSB | OSB | PRESSURE INDEPENDENT | 8 | 600 | 0 | 600 | 0 | 0.30 | TITUS EDV-3000 | PROVIDED WITH 36" ATTENUATOR |
| 06 | OSB | OSB | PRESSURE INDEPENDENT | 9 | 750 | 0 | 750 | 0 | 0.30 | TITUS EDV-3000 | PROVIDED WITH 36" ATTENUATOR |
| 07 | OSB | OSB | PRESSURE INDEPENDENT | 10 | 950 | 0 | 950 | 0 | 0.30 | TITUS EDV-3000 | PROVIDED WITH 36" ATTENUATOR |
| 08 | OSB | OSB | PRESSURE INDEPENDENT | 12 | 1300 | 0 | 1300 | 0 | 0.30 | TITUS EDV-3000 | PROVIDED WITH 36" ATTENUATOR |
| 09 | OSB | OSB | PRESSURE INDEPENDENT | 14 | 2200 | 0 | 2200 | 0 | 0.30 | TITUS EDV-3000 | PROVIDED WITH 36" ATTENUATOR |
| 10 | OSB | OSB | PRESSURE INDEPENDENT | 16 | 3400 | 0 | 3400 | 0 | 0.30 | TITUS EDV-3000 | PROVIDED WITH 36" ATTENUATOR |

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| NO. | DATE | BY | CHKD | ENGR | PROJ | DESCRIPTION |
|-----|----------|-----|------|------|------|---------------------------|
| B | 4-19-96 | CLP | ME | AA | | FINAL DESIGN REVIEW & BID |
| A | 10-31-95 | CLP | ME | AA | TDM | PRELIMINARY DESIGN REVIEW |

| | |
|----------|-----|
| DRAWN | CLP |
| CHECKED | |
| ENGINEER | |
| PROJ | |

PARSONS
100 WEST WALNUT STREET
PASADENA, CALIFORNIA

LIGO
CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER
GRAVITATIONAL-WAVE OBSERVATORY
SITE NO. 1 - HANFORD, WASHINGTON

HVAC
EQUIPMENT SCHEDULES
SHEET 3

SCALE: NONE
CONTRACT NUMBER: PPI50969
PROJECT NUMBER: 8094

WA-H-005