

ELECTRIC HEATER SCHEDULE

| MARK | MANUF. | MODEL | TYPE | CFM | KW | FLA | V/PH | WT (LBS) | AREA SERVED | NOTES |
|-------|---------|------------|-------------------|-----|-----|-----|-------|----------|--------------|---------|
| EUH-1 | INDEECO | 240-U2075U | FAN-FORCED HEATER | 650 | 7.5 | 9.4 | 480/3 | 50 | HYPOCHL. RM. | (1)-(4) |

- NOTES:
(1) PROVIDE UNIT-MOUNTED THERMOSTAT SET AT 50F (ADJ.).
(2) PROVIDE DISCONNECT.
(3) HORIZONTAL AIR DISCHARGE.
(4) MOUNT AS HIGH AS POSSIBLE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS USING ALL-THREAD RODS.

FAN SCHEDULE

| MARK | MANUF. | MODEL | CFM @ ALT. | E.S.P. (in WC) | HP | VOLT/ PH | DRIVE | TYPE | MAX. SONES | WT. LBS | AREA(S) SERVED | NOTES |
|------|-----------|----------------|------------|----------------|-----|----------|--------|--------|------------|---------|-------------------|-------------------------|
| EF-1 | GREENHECK | SCE-24-415-A10 | 7,000 | 0.15 | 1 | 460/3 | DIRECT | PROP. | 39.0 | 250 | GENERAL EXHAUST | (1)(10)(11)(20)(23) |
| EF-2 | GREENHECK | SCE-24-415-A10 | 7,000 | 0.15 | 1 | 460/3 | DIRECT | PROP. | 39.0 | 250 | GENERAL EXHAUST | (1)(10)(11)(20)(24) |
| EF-3 | GREENHECK | SCE-24-415-A10 | 7,000 | 0.15 | 1 | 460/3 | DIRECT | PROP. | 39.0 | 250 | GENERAL EXHAUST | (1)(10)(11)(20)(25)(26) |
| EF-4 | GREENHECK | SQ-80-VG | 340 | 0.25 | 1/6 | 120/1 | DIRECT | INLINE | 7.9 | 65 | HYPOCHL. RM. EXH. | (1)(2)(3)(10)(21) |
| EF-5 | GREENHECK | MCY-20-224-A5 | 4,380 | 0.15 | 1/2 | 120/1 | DIRECT | PROP. | 26.0 | 160 | PUMP ROOM | (1)(10)(22) |
| EF-6 | GREENHECK | MCY-20-224-A5 | 4,380 | 0.15 | 1/2 | 120/1 | DIRECT | PROP. | 26.0 | 160 | PUMP ROOM | (1)(10)(22) |

- GENERAL NOTES:
- SITE ELEVATION = 5422' ABOVE SEA LEVEL.
(1) PROVIDE DISCONNECT.
(2) PROVIDE GRAVITY BACKDRAFT DAMPER MOUNTED IN DUCTWORK.
(3) PROVIDE HI-PRO POLYESTER COATING (DARK GRAY) FOR ENTIRE FAN AND ACCESSORIES.
- MOUNTING NOTES:
(10) MOUNT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
(11) PROVIDE MANUFACTURER'S HOUSING ASSEMBLY INCLUDING GRAVITY BACKDRAFT DAMPER, SHORT WALL HOUSING (FLUSH EXTERIOR MOUNTING), OSHA GUARD AND 45° ALUMINUM WEATHER HOOD. UNIT TO BE EXTERIOR SERVICE ARRANGMENT SO MOTOR AND EQUIPMENT CAN BE ACCESSED AND SERVICED FROM THE EXTERIOR OF THE BUILDING.
- CONTROL NOTES:
(20) THERMOSTAT SHALL ENERGIZE FAN AT 80 DEG F (ADJ.). FAN OPERATION OVERRIDE VIA HOA SWITCH.
(21) FAN SHALL RUN CONTINUOUSLY WITH TWO SPEED MOTOR CONTROL (HIGH=340CFM, LOW=180CFM). PROVIDE EXTERIOR WALL SWITCH. MOUNT DISCONNECT AND OPERATING SWITCH, ADJACENT TO DOOR, ON THE OUTSIDE OF BUILDING. REFER TO KEYNOTE 21 ON SHEET MPD-1.
(22) FAN SHALL RUN WHENEVER EF-1, EF-2 OR EF-3 ARE ENERGIZED. FAN OPERATION OVERRIDE VIA HOA SWITCH.
(23) INTERLOCK LOUVER L-1 AND L-5 WITH FAN OPERATION WITH FAN (SEE LOUVER SCHEDULE).
(24) INTERLOCK LOUVER L-3 AND L-4 WITH FAN OPERATION WITH FAN (SEE LOUVER SCHEDULE).
(25) INTERLOCK LOUVER L-2 AND L-3 WITH FAN OPERATION WITH FAN (SEE LOUVER SCHEDULE).
(26) HUMIDISTAT SHALL ENERGIZE FAN AT 55% RELATIVE HUMIDITY (ADJ.). FAN OPERATION OVERRIDE VIA HOA SWITCH.

GAS-FIRED UNIT HEATER SCHEDULE

| MARK | MANUFACTURER | MODEL | INPUT MBH | OUTPUT MBH | EFFICIENCY % | CFM | MOTOR HP | FLA | MOCF | VOLT/ PHASE | WEIGHT LBS | NOTES |
|------|--------------|----------|-----------|------------|--------------|------|----------|-----|------|-------------|------------|---------|
| UH-1 | REZNOR | UEAS 260 | 228.8 | 210.5 | 92 | 4430 | 1/2 | 10 | 20 | 115 / 1 | 400 | (1)-(5) |
| UH-2 | REZNOR | UEAS 260 | 228.8 | 210.5 | 92 | 4430 | 1/2 | 10 | 20 | 115 / 1 | 400 | (1)-(5) |

- NOTES:
(1) HIGH EFFICIENCY CONDENSING UNIT HEATER. HEATING VALUES ARE ADJUSTED FOR SITE ALTITUDE = 5422' ASL.
(2) MOUNT 16'-3" A.F.F. IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. MOUNT WITH (4) ALL-THREAD RODS, UNI-STRUT AND SPRING ISOLATORS (MIN. 1" DEFLECTION). COORDINATE MOUNTING HEIGHT WITH BLDG. STRUCTURE AND BRIDGE CRANE.
(3) PROVIDE MANUFACTURER'S OPTION CD3 DOWNTURN NOZZLE.
(4) PROVIDE 24V THERMOSTAT. SEE PLANS FOR LOCATION. SET THERMOSTAT TO 55 DEG. F (ADJ.).
(5) INSTALL PVC COMBUSTION AND VENT PIPES PER MANUFACTURER'S INSTRUCTIONS. PROVIDE MANUFACTURER'S CONCENTRIC ADAPTER. ROUTE VENT PIPE CONDENSATION DRAIN LINE TO NEAREST FLOOR DRAIN.

LOUVER SCHEDULE

| MARK | MANUFACTURER | MODEL | AIRFLOW (CFM) | FACE VELOCITY (FPM) | MAX. A.P.D. (inWC) | SIZE (W"xH"xD") | MIN. FREE AREA (SQ FT) | TYPE | MATERIAL | SERVICE | NOTES |
|------|--------------|------------|---------------|---------------------|--------------------|-----------------|------------------------|-------------|----------|---------|--------------|
| L-1 | RUSKIN | ELC6375DAX | 4,200 | 442 | 0.10 | 52x52x6 | 9.50 | COMBINATION | ALUMINUM | INTAKE | (1)(2)(3)(4) |
| L-2 | RUSKIN | ELC6375DAX | 4,200 | 442 | 0.10 | 52x52x6 | 9.50 | COMBINATION | ALUMINUM | INTAKE | (1)(2)(3)(4) |
| L-3 | RUSKIN | ELC6375DAX | 4,200 | 442 | 0.10 | 52x52x6 | 9.50 | COMBINATION | ALUMINUM | INTAKE | (1)(2)(3)(4) |
| L-4 | RUSKIN | ELC6375DAX | 4,200 | 442 | 0.10 | 52x52x6 | 9.50 | COMBINATION | ALUMINUM | INTAKE | (1)(2)(3)(4) |
| L-5 | RUSKIN | ELC6375DAX | 4,200 | 442 | 0.10 | 52x52x6 | 9.50 | COMBINATION | ALUMINUM | INTAKE | (1)(2)(3)(4) |
| L-6 | RUSKIN | ELF375DX | 340 | 194 | 0.05 | 24x24x4 | 1.75 | STATIONARY | ALUMINUM | EXHAUST | (1)(4) |
| L-7 | RUSKIN | ELF375DX | 340 | 194 | 0.05 | 24x24x4 | 1.75 | STATIONARY | ALUMINUM | INTAKE | (1)(4) |

- NOTES:
(1) PROVIDE FACTORY PRIMER FINISH. PAINT LOUVER TO MATCH ADJACENT SURFACE.
(2) PROVIDE LOUVER WITH 120V 2-POSITION ACTUATOR.
(3) INTERLOCK WITH EXHAUST FANS AS SPECIFIED ON FAN SCHEDULE. LOUVER SHALL OPEN WHENEVER INTERLOCKED EXHAUST FAN IS ENERGIZED, AND SHALL CLOSE WHEN INTERLOCKED FAN IS OFF.
(4) PROVIDE BIRDSCREEN.

| REVISIONS | | |
|-----------|------------|---|
| NO. | DATE | DESCRIPTION |
| 1 | 01/25/2012 | ISSUED FOR PD BUILDING VALUE ENGINEERING REVIEW AND COMMENTS |
| 2 | 04/23/2012 | ISSUED FOR BUILDING PERMIT SUBMITAL TO PPRBD (PUMPING AND DISINFECTION BLDG) |
| 3 | 05/21/2012 | ISSUED FOR CONSTRUCTION PER PPRBD BLDG PERMIT #98993 (PUMP AND DISINFECTION BLDG) |
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MECHANICAL SCHEDULES
PUMPING AND DISINFECTION BUILDING
HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY
LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT

DRAWN _____ JE
DESIGNED _____ SB
CHECKED _____ SB
DATE _____ 2011
PROJECT NO. _____ 20166.330
GMS FILE NO. _____ 2599

GMS, INC.
CONSULTING ENGINEERS
611 N. WEBER, SUITE 300
COLORADO SPRINGS, COLORADO 80903

SHEET
MPD-2
OF
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XXREF FILENAME: G:\
BASE DWG: G\
PLOT STYLE FILE: 10502.ctb
FILENAME: \G:\LTKSDD\20166\310\MPD2\MPD2.dwg