



# KITIMAT FISH HATCHERY -- SITE PLAN

M0.01 SCALE: NOT TO SCALE

MECHANICAL ABBREVIATIONS	
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BDD	BACKDRIFT DAMPER
BHP	BREAK HORSEPOWER
CD	CONTROL DAMPER
CFM	CUBIC FEET PER MINUTE
C/W	COMPLETE WITH
DB	DRY BULB
CTE	CONNECT TO EXISTING
DOW	DOMESTIC COLD WATER
DCC	DIGITAL CONTROL
DEG	DEGREE
DHW	DOMESTIC HOT WATER
DIA	DIAMETER
DN	DOWN
DWR	DOMESTIC HOT WATER RECIRCULATION
DWRH	DOMESTIC HOT WATER RECIRCULATION
E/A	EXHAUST AIR
EADB	ENTERING AIR DRY BULB
EAT	ENTERING AIR TEMPERATURE
EAWB	ENTERING AIR WET BULB
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEC	ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE
EXH	EXHAUST
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FLA	FULL LOAD AMPS
FLR	FLOOR
FPM	FEET PER MINUTE
FT	FEET/FOOT
GAL	GALLONS
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HMR	HEATING WATER RETURN
HMS	HEATING WATER SUPPLY
ID	INSIDE DIAMETER
INV	INVERT
KW	KILOWATT
LAB	LEAVING AIR DRY BULB
LABO	LEAVING AIR TEMPERATURE
LABW	LEAVING AIR WET BULB
LBS	POUNDS
MAX	MAXIMUM
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
O/A	OUTDOOR AIR
OED	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
OD	OUTSIDE DIAMETER
PSI	POUNDS PER SQUARE INCH
R/A	RETURN AIR
RF	RETURN FAN
RPM	REVOLUTIONS PER MINUTE
RWL	RAIN WATER LEADER
S/A	SUPPLY AIR
SF	SUPPLY FAN
SS	STAINLESS STEEL
SP	STATIC PRESSURE
SPEC	SPECIFICATION
T/A	TRANSFER AIR DUCT
TAD	TRANSFER AIR DUCT
TBC	TO BE CONFIRMED
TBD	TO BE DETERMINED
THRU	THROUGH
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
WB	WET BULB

DRAWING NO.	DESCRIPTION	SCALE
M0.01	DRAWING NOTES AND SYMBOL SCHEDULE	NOT TO SCALE
M1.01	MECHANICAL PLAN - DEMOLITION	1:100
M1.02	MECHANICAL PLAN - NEW CONSTRUCTION	1:50

TAG	EQUIPMENT	LOCATION	SERVICE	MANUFACTURER	MODEL	CAPACITY (KW)	POWER (V/PH/Hz)	AIRFLOW (LPS)	EAT (DEC. C)	LAT (L/H) IN	NOTES	
EH-1	MECHANICAL/ELECTRICAL	OFFICE 1	AH-5	INDEECO	CUSTOM	11	208/1/60	830	15.5	27.8	600X450	ALL
DH-1	OFFICE 1	LUNCH RM	TER-10-4-240	TERMOLEC	TER-10-4-240	4	208/1/60	140	12.7	32.2	342.9x254	ALL
DH-2	STAFF FEMALE	STAFF MALE	TER-6-2-240	TERMOLEC	TER-6-2-240	2	208/1/60	80	12.7	32.2	292.1x203.2	ALL
DH-3	LOBBY	OFFICE 2	TER-6-2-240	TERMOLEC	TER-6-2-240	2	208/1/60	80	12.7	32.2	292.1x203.2	ALL
DH-4	OFFICE 3	OFFICE 3	TER-10-3-240	TERMOLEC	TER-10-3-240	3	208/1/60	45	12.7	32.2	292.1x203.2	ALL
DH-5	OFFICE 2	DRY LAB	TER-10-3-240	TERMOLEC	TER-10-3-240	3	208/1/60	90	12.7	32.2	342.9x254	ALL
DH-6	OFFICE 2	OFFICE 2	TER-10-3-240	TERMOLEC	TER-10-3-240	3	208/1/60	110	12.7	32.2	342.9x254	ALL
DH-7	OFFICE 2	OFFICE 2	TER-6-2-240	TERMOLEC	TER-6-2-240	2	208/1/60	85	12.7	32.2	292.1x203.2	ALL

NOTES:  
1. C/W SCR TYPE CONTROLLER, AIR PROWING SWITCH & HIGH TEMP. LIMIT.  
2. BUILT-IN TRANSFORMER.  
3. AUTOMATIC RESET CUT-OUT.  
4. BUILT-IN AIR FLOW SENSOR.  
5. SUP-IN DUCT MOUNTED HEATER.  
6. C/W SCREENS ON BOTH SIDES OF COIL.  
7. BUILT-IN DISCONNECT.  
8. TIE INTO BUILDING CONTROL SYSTEM

TAG	EQUIPMENT	LOCATION	SERVICE	MANUFACTURER	MODEL	REMARKS
RS-1	ROUND DUCT SUPPLY GRILLE	PRICE	SUPPLY AIR	SDGE		ALL
RS-1	ROUND DUCT RETURN GRILLE	PRICE	RETURN AIR	SDGER		ALL

NOTES:  
1. PROVIDE DIFFUSERS AND GRILLES WITH BORDER STYLES THAT ARE COMPATIBLE WITH ADJACENT WALLS AND CEILING SYSTEMS.  
2. NC LEVELS BASED ON OCTAVE BANDS 2-7 SOUND POWER LEVELS MINUS A ROOM ABSORPTION OF 10 DB, MEASURED PER ASHRAE 70-91.

EQUIPMENT TAG	SERVICE	MANUFACTURER	TYPE	MOUNTING TYPE	MODEL	CAPACITY (KW)	POWER (HP)	REMARKS
EH-1	STORM LOBBY	QUELLET	ELECTRIC	CEILING MOUNTED	04CP4808	4.8	208/1/60	ALL

NOTES:  
1. COLOUR WHITE  
2. C/W ADAPTER FOR 1-BAR CEILING  
3. RECESSED IN CEILING  
4. TIE INTO BUILDING CONTROL SYSTEM

EQUIPMENT TAG	DESCRIPTION/TYPE	MANUFACTURER	MODEL NUMBER	SUPPLY FAN VOLUME (LPS)	ESP (PA)	MCA	MOTOR SUPPLY (HP)	POWER SUPPLY (V/PH/Hz)	OUTPUT (KW)	E.A.T. DB (DEG. C)	L.A.T. DB (DEG. C)	NOTES
F-1	GAS FIRED FURNACE - HORIZONTAL DISCHARGE - CEILING MOUNTED	TRANE	TU12B080A93VB	680	125	10.8	0.5	120/1/60	23.4	13	37	ALL

NOTES:  
1. SINGLE POINT CONNECTION TO UNIT  
2. TIE INTO BUILDING CONTROL SYSTEM  
3. COMPLETE WITH MANUFACTURER RECOMMENDED TUBE PIPING

EQUIPMENT TAG	QTY	SERVICE	LOCATION	INDOOR UNIT	MECHANICAL/ELECTRICAL	OUTDOOR UNIT	TYPE	MANUFACTURER	MODEL NUMBER	TOTAL GLG CAP	AIR FLOW	SCROLL	SCROLL	MECHANICAL	OUTSIDE SHOP	OUTSIDE SHOP	MECHANICAL/ELECTRICAL	INDOOR UNIT	OUTDOOR UNIT	WEIGHT (LBS)	COILING COIL DESIGN CONDITIONS	WORRING FLUID	COILING COIL DESIGN CONDITIONS	HEATING COIL DESIGN CONDITIONS	NOTES				
HP-1	1	OFFICE	OFFICE	SHOP	SHOP	SHOP	SCROLL	TRANE	41WA5062A	17.8	830	SCROLL	SCROLL	MECHANICAL	OUTSIDE SHOP	OUTSIDE SHOP	MECHANICAL/ELECTRICAL	SHOP	SHOP	119	R-134A	R-134A	12.44	12.44	15.3	15.3	29.8	29.8	ALL
HP-2	1	SHOP	SHOP	SHOP	SHOP	SHOP	SCROLL	TRANE	41WA5035A	10.5	660	SCROLL	SCROLL	MECHANICAL	OUTSIDE SHOP	OUTSIDE SHOP	MECHANICAL/ELECTRICAL	SHOP	SHOP	104	R-134A	R-134A	17.2	17.2	15.5	15.5	29.8	29.8	ALL

NOTES:  
1. UNITS TO BE SINGLE POINT POWER CONNECTION  
2. TIE INTO BUILDING CONTROL SYSTEM  
3. PROVIDE 25MM COPPER CONDENSATE DRAIN

SYMBOL	SCHEDULE
[Symbol]	SUPPLY/OUTDOOR AIR DUCT UP
[Symbol]	RETURN/RELIEF AIR DUCT UP
[Symbol]	RETURN/RELIEF AIR DUCT DOWN
[Symbol]	EXHAUST/COMBUSTION AIR DUCT UP
[Symbol]	EXHAUST/COMBUSTION AIR DUCT DOWN
[Symbol]	TURNING VANES
[Symbol]	ACOUSTIC INSULATION
[Symbol]	BALANCING DAMPER
[Symbol]	BACK DRIFT DAMPER
[Symbol]	MOTORIZED DAMPER
[Symbol]	FIRE DAMPER VERTICAL
[Symbol]	FIRE DAMPER HORIZONTAL
[Symbol]	DUCT/PIPE CAP
[Symbol]	SUPPLY AIR SQUARE DIFFUSER
[Symbol]	SUPPLY AIR ROUND DIFFUSER
[Symbol]	SUPPLY AIR LINEAR DIFFUSER
[Symbol]	RETURN AIR GRILLE
[Symbol]	EXHAUST AIR GRILLE
[Symbol]	DIRECTION OF AIRFLOW
[Symbol]	DOOR UNDERCUT

REVISION	DATE	DESCRIPTION
1	2015.08.29	ISSUED FOR CLIENT REVIEW
2	2015.08.29	ISSUED FOR TENDER

KEYED NOTE
DRAWING REVISION
DETAIL NUMBER
DRAWING NUMBER
SECTION NUMBER
DRAWING NUMBER
EQUIPMENT/FIXTURE TAG
GRILLE/DIFFUSER TAG
MECHANICAL ITEM TO BE DEMOLISHED

GENERAL HYDRONIC
EXISTING
NEW
HWS
HRS
C
AH-1S
AH-1R
AH-2S
AH-2R
REF-S
REF-R

GENERAL PLUMBING
EXISTING
NEW
C
F
Y

HEATING SECTION	
INPUT (KW)	15.2
OUTPUT (KW)	23.4
E.A.T. DB (DEG. C)	13
L.A.T. DB (DEG. C)	37

PROJECT TITLE:  
**KITIMAT - RIVER HATCHERY OFFICE AREA HEATING SYSTEM**

PROJECT ADDRESS:  
KITIMAT RIVER HATCHERY  
283 HASLA BLVD  
KITIMAT, BC  
V8C 2G7

PROJECT NO.: 000b-442-15  
DRAWING NO.: M0.01

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