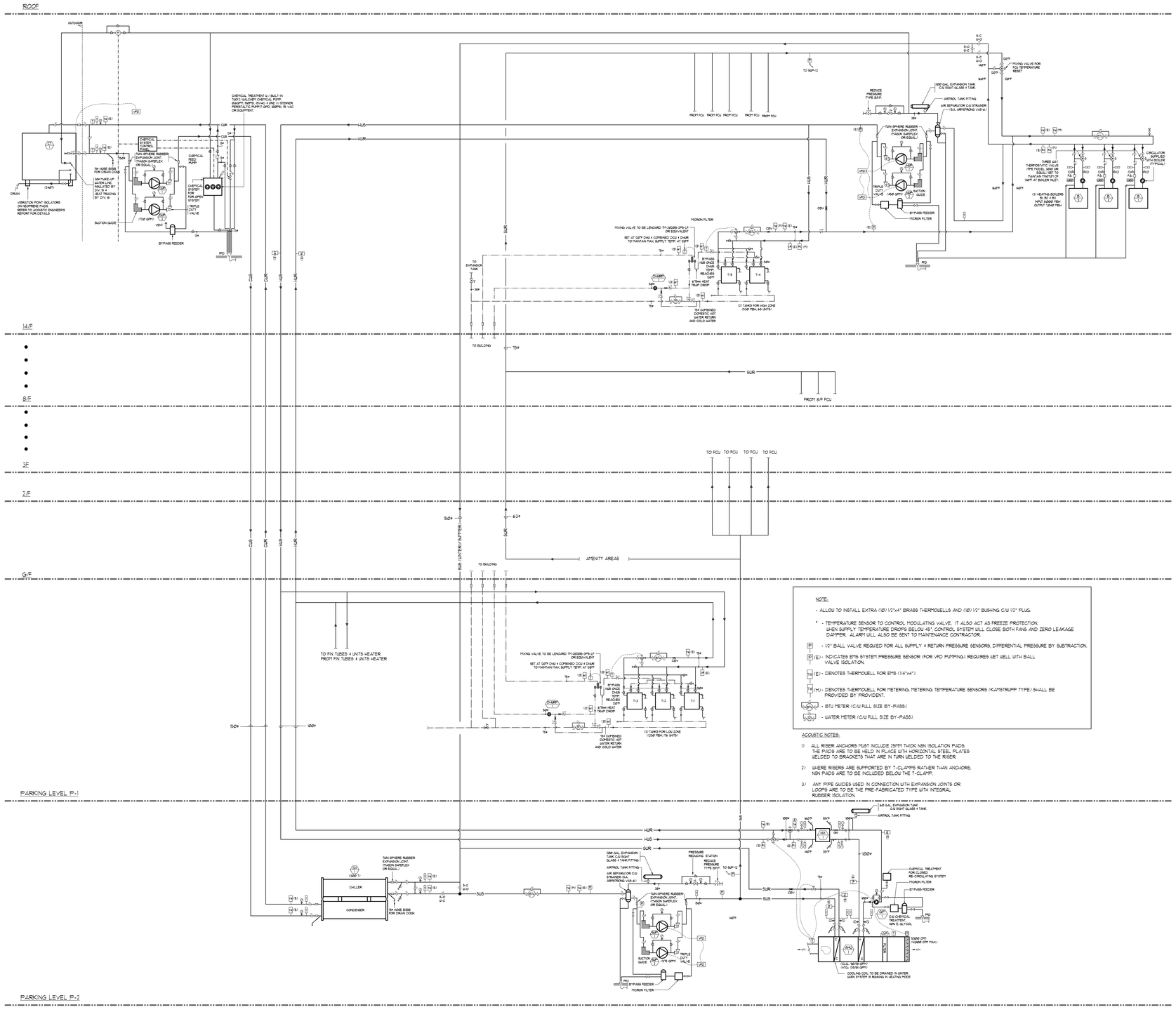

NOTE:

- ALLOW TO INSTALL EXTRA (ID) 1/2"x4" BRASS THERMOWELLS AND (ID) 1/2" BUSHING C/U 1/2" PLUG.

* - TEMPERATURE SENSOR TO CONTROL MODULATING VALVE. IT ALSO ACT AS FREEZE PROTECTION. WHEN SUPPLY TEMPERATURE DROPS BELOW 45°, CONTROL SYSTEM WILL CLOSE BOTH FANS AND ZERO LEAKAGE DAMPER. ALARM WILL ALSO BE SENT TO MAINTENANCE CONTRACTOR.

BP - 1/2" BALL VALVE REQUIRED FOR ALL SUPPLY & RETURN PRESSURE SENSORS, DIFFERENTIAL PRESSURE BY SUBTRACTION.

PS (E) - INDICATES EMS SYSTEM PRESSURE SENSOR (FOR VFD PUMPING). REQUIRES WET WELL WITH BALL VALVE ISOLATION.

TW (E) - DENOTES THERMOWELL FOR EMS (1/4"x4").

TW (M) - DENOTES THERMOWELL FOR METERING. METERING TEMPERATURE SENSORS (KAMSTRUPP TYPE) SHALL BE PROVIDED BY PROVIDENT.

BTU - BTU METER (C/U FULL SIZE BY-PASS).

WM - WATER METER (C/U FULL SIZE BY-PASS).

ACOUSTIC NOTES:

1) ALL RISER ANCHORS MUST INCLUDE 25MM THICK NON ISOLATION PADS. THE PADS ARE TO BE HELD IN PLACE WITH HORIZONTAL STEEL PLATES WELDED TO BRACKETS THAT ARE IN TURN WELDED TO THE RISER.

2) WHERE RISERS ARE SUPPORTED BY T-CLAMPS RATHER THAN ANCHORS, NON PADS ARE TO BE INCLUDED BELOW THE T-CLAMP.

3) ANY PIPE GUIDES USED IN CONNECTION WITH EXPANSION JOINTS OR LOOPS ARE TO BE THE PRE-FABRICATED TYPE WITH INTEGRAL RUBBER ISOLATION.

LEGEND MECHANICAL

SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER
	SUPPLY AIR DIFFUSER
	LINEAR SUPPLY DIFFUSER
T	THERMOSTAT
S	FAN SWITCH
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN DUCT UP
	RETURN DUCT DOWN
	EXHAUST DUCT UP
	EXHAUST DUCT DOWN
FD	FIRE DAMPER
BD	BALANCING DAMPER
MD	MOTORIZED DAMPER
MFD	MOTORIZED FIRE DAMPER
BDD	BACKDRAFT DAMPER
OBD	OPPOSED BLADE VOLUME CONTROL DAMPER C/U LOCKING QUADRANT
	TURNING VANES
	FLEXIBLE CONNECTION
	ACOUSTIC INSULATION
XX	TYPE OF EQUIPMENT EQUIPMENT IDENTIFICATION
XX-X	TYPE OF DIFFUSER OR GRILLE
XXX	GRILLE SIZE OR DIFFUSER NECK SIZE
XXX	AIRFLOW (CFM OR L/S)
SD	STARTER (3 PHASE) (PHASE)
S	IN-SUITE ERV MASTER SWITCH
S	FAN SWITCH (IN SUITE ERV OVERRIDE BUTTON
CO	CO SENSOR
G	GAS LINE
GM	GAS METER
G	GAS COCK
PR	PRESSURE REDUCING VALVE
	SANITARY ABOVE GRADE
	SANITARY BELOW GRADE
	STORM ABOVE GRADE
	STORM BELOW GRADE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
	SANITARY VENT
WM	WATER METER
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
HD	HUB DRAIN
RD	ROOF DRAIN
SLD	SLAB DRAIN
AD	AREA DRAIN
BLAD	BI-LEVEL AREA DRAIN
CB	CATCH BASIN
	SANITARY TRAP
	ELBOW UP
	ELBOW DOWN
CO	WALL CLEANOUT
CO	FLOOR CLEANOUT
HB	HOSE BIBB
NFHB	NON-FREEZE HOSE BIBB
	GLOBE VALVE
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE
PR	PRESSURE REDUCING VALVE
	CHECK VALVE
	CAP
CO	COMPRESSED AIR OUTLET
	BACKFLOW PREVENTER
	CIRCUIT BALANCING VALVE
	MULTIPLE PIPES / / - DENOTES NO. OF PIPES
T	TEMPERATURE SENSOR
T	THERMOMETER
	2-WAY MODULATING VALVE
	3-WAY MODULATING VALVE
TW	1/2"x4"(X) THERMOWELL C/W 1/2" BUSHING & 1/2" PLUG
XXX	FLOOR ELEVATION ABOVE LEVEL
XXX	FLOOR ELEVATION THIS LEVEL
XXX	HEADROOM (FLOOR TO U/S HEIGHT)

DATE	NO.	DESCRIPTION	BY
28/.11	3	RE-ISSUED FOR PERMIT	E.P.
27/10/14	2	RE-ISSUED FOR PERMIT	E.P.
29/09/14	1	ISSUED FOR PERMIT	E.P.

PLEASE VOID ALL PRINTS DATED PREVIOUS TO FINAL DATE ABOVE

REVISIONS

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT DISCREPANCIES TO THE ENGINEERS BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS THE PROPERTY OF THE ENGINEERS AND MUST BE RETURNED UPON COMPLETION OF THE WORK.

DRAWINGS ARE NOT TO BE SCALED

NOVA TREND ENGINEERING

07/10/14

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DRAWING TITLE
SCHEMATICS

PROJECT TITLE
50 ALEXANDRA PARK
BLOCK 11
38 CAMERON STREET
TORONTO ONTARIO

DRAWN BY:	CHECKED BY:	SCALE:
G.S.	E.P.	N.T.S.
DATE: FEB. 13	PROJECT NUMBER: 1313	DRAWING NUMBER: M-39 OF 43

Drawing name: \\CADSERVER\Current Dwg\1313\1313 - Alexandra Park\M1313-M39-SCHEMATICS.dwg Plotted: Sep 09, 2014 - 9:11am