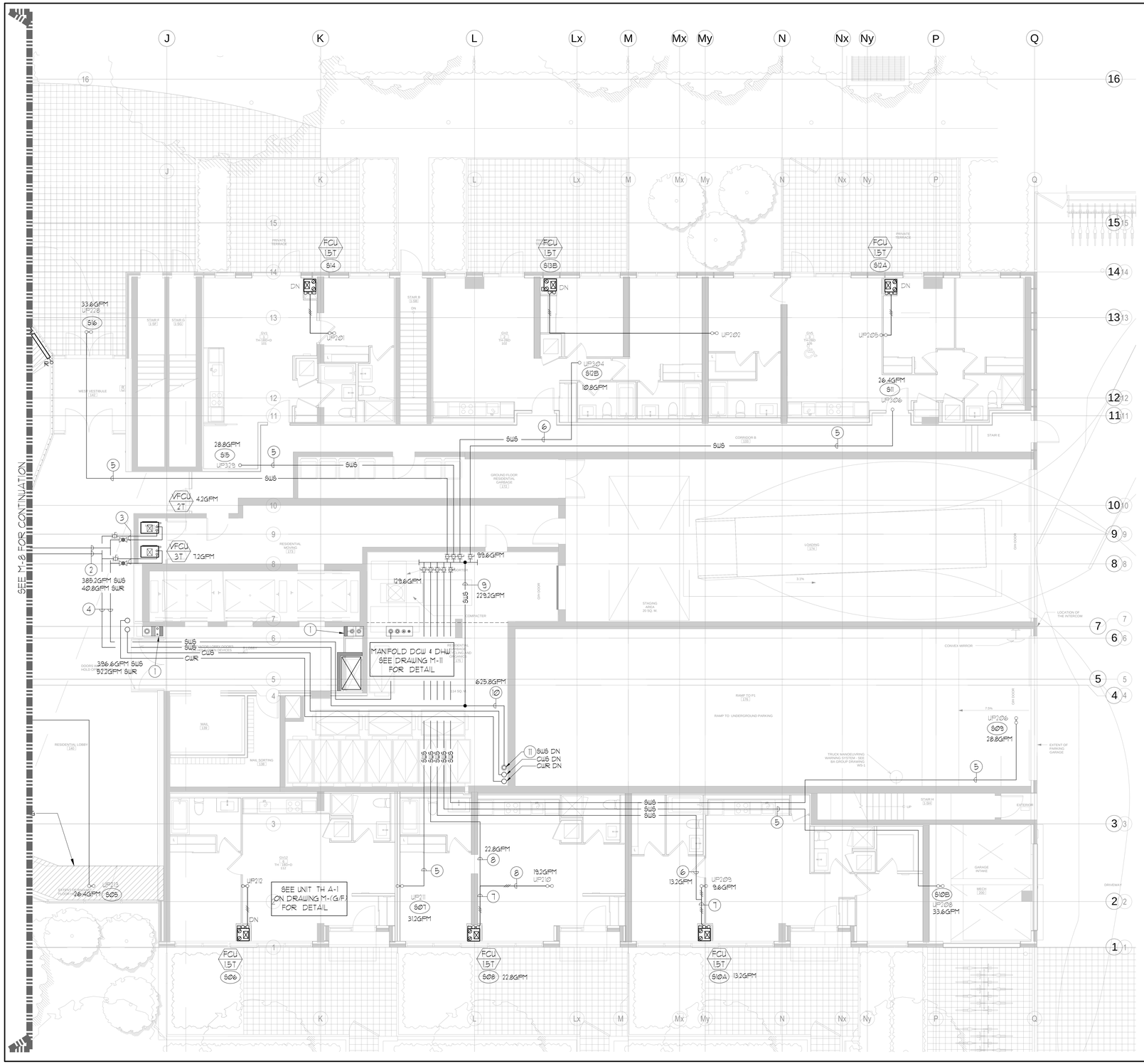
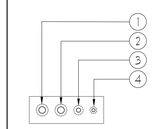


REFER TO DWG. M-X FOR GENERAL AND ACOUSTIC NOTES

CLEAR FLOOR TO UNDERSLAB = 4050mm
CLEAR PRODUCT= 3000mm
COMPLETE DROP CEILING =1000mm FOR DUCT/PIPES
ROOF DRAINS & TERRACE DRAINS FROM 2/F

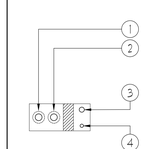
NOTES:

1. PIPE SHAFT-REFER TO PIPE RISER DETAIL ON THIS DRAWING FOR DETAILS.
2. 100ø SWS & 50ø SWR.
3. 75ø SWS & 75ø SWR.
4. 100ø SWS & 63ø SWR.
5. 50ø SWS.
6. 32ø SWS.
7. 19ø SWS.
8. 38ø SWS.
9. 75ø SWS.
10. 150ø SWS.
11. 150ø SWS DOWN.



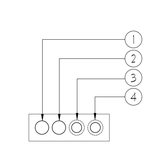
1. 100ø DCW (LZ)
2. 100ø DCW (HZ)
3. 63ø DHW (LZ)
4. 50ø DHWR (LZ)

NORTH PIPE SHAFT 2: G/F. NTS



1. 100ø HWS
2. 100ø HWR
3. 75ø GAS (BLB) FOR BUILDING
4. 50ø GAS VENT

NORTH PIPE SHAFT 1: G/F. NTS



1. 200ø CWS
2. 200ø CWR
3. 150ø SWS
4. 150ø SWR

SOUTH PIPE SHAFT: G/F. NTS

LEGEND MECHANICAL

SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER
	SUPPLY AIR TROFFER
	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
M	MOTORIZED DAMPER
MFD	MOTORIZED FIRE DAMPER
BDD	BACKDRAFT DAMPER
OBD	OPPOSED BLADE VOLPE CONTROL DAMPER CW LOOKING BLADEWAY
	TURNING VANES
	FLEXIBLE CONNECTION
	ACOUSTIC INSULATION
XX	TYPE OF EQUIPMENT
XX	EQUIPMENT IDENTIFICATION
XX	TYPE OF DIFFUSER OR GRILLE
XX	TYPE OF DIFFUSER OR GRILLE NECK SIZE
XX	AIRFLOW (CFM OR L/s)
S	STARTER / 3 PHASE / PHASE /
S	N-SUITE ERV MASTER SWITCH
S	FAN SWITCH / N-SUITE ERV OVERRIDE BUTTON
CO	CO SENSOR
G	GAS LINE
G	GAS METER
G	GAS COCK
PR	PRESSURE REDUCING VALVE
S	SANITARY ABOVE GRADE
S	SANITARY BELOW GRADE
S	STORM ABOVE GRADE
S	STORM BELOW GRADE
D	DOMESTIC COLD WATER
D	DOMESTIC HOT WATER
D	DOMESTIC HOT WATER RECIRCULATION
V	SANITARY VENT
W	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
	PRESSURE REDUCING VALVE
	CHECK VALVE
	CAP
CA	COMPRESSED AIR OUTLET
	BACKFLOW PREVENTER
	CIRCUIT BALANCING VALVE
	MULTIPLE PIPES / - DENOTES NO. OF PIPES
T	TEMPERATURE SENSOR
	THERMOMETER
	2-WAY MODULATING VALVE
	3-WAY MODULATING VALVE
	10"x4"(D) THERMOWELL C/O 10" BUSHING & 10" PLUG
XXX	FLOOR ELEVATION ABOVE LEVEL
XXX	FLOOR ELEVATION THIS LEVEL
XXX	HEADROOM (FLOOR TO U/S HEIGHT)

DATE	NO.	DESCRIPTION	BY
07/10/14	2	RE-ISSUED FOR PERMIT	EP
05/30/14	1	ISSUED FOR PERMIT	EP
DATE	NO.	DESCRIPTION	BY

MARK VOID ALL PRINTS DATED PREVIOUS TO FINAL DATE ABOVE

REVISIONS

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

DRAWINGS ARE NOT TO BE SCALED

NOVA TREND ENGINEERING GROUP LTD.

07/10/14 ERIC PUI KAI PAN 90 LICENSED PROFESSIONAL ENGINEER CERTIFICATE OF ORDER

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Email: cad@novatrendeng.com

DRAWING TITLE:
G/F NORTH
HVAC PIPING LAYOUT

PROJECT TITLE:
ALEXANDRA PARK

XXX
TORONTO ONTARIO

DRAWN BY:	CHECKED BY:	SCALE:
G.S.	E.P.	1:50
DATE: FEB. 13	PROJECT NUMBER: 1313	DRAWING NUMBER: M-9 OF 39

Drawing name: \\VAGRENT\Current Dwgs\1313\1313 - Alexandra Park\2013\1313M - 8 - 2/2F PLAN - GOTH - & NORTH HVAC PIPING LAYOUT.dwg Plotted: Jul 09, 2014 - 4:11pm