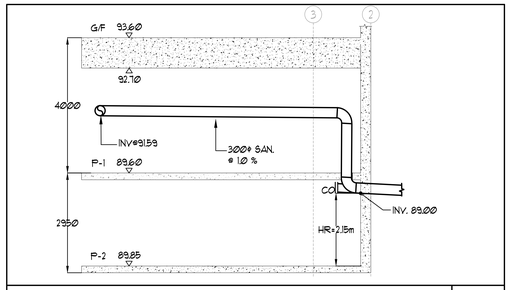
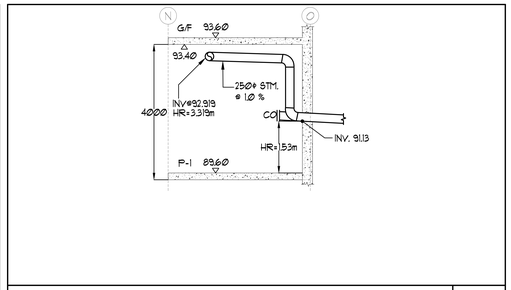
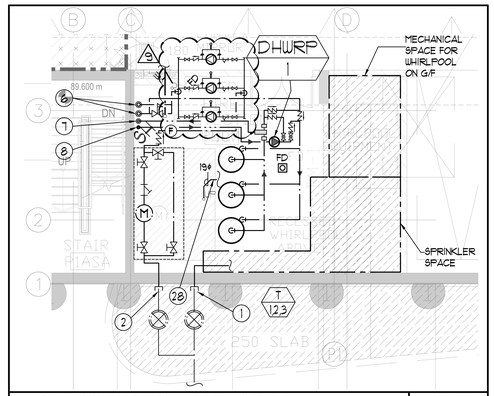


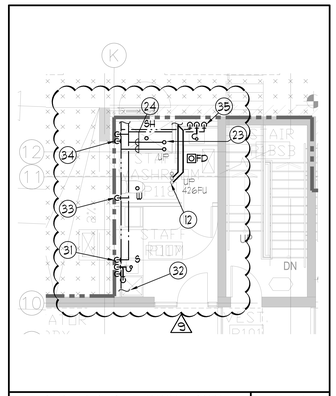
SANITARY PIPE DETAIL SECTION A-A | N.T.S.



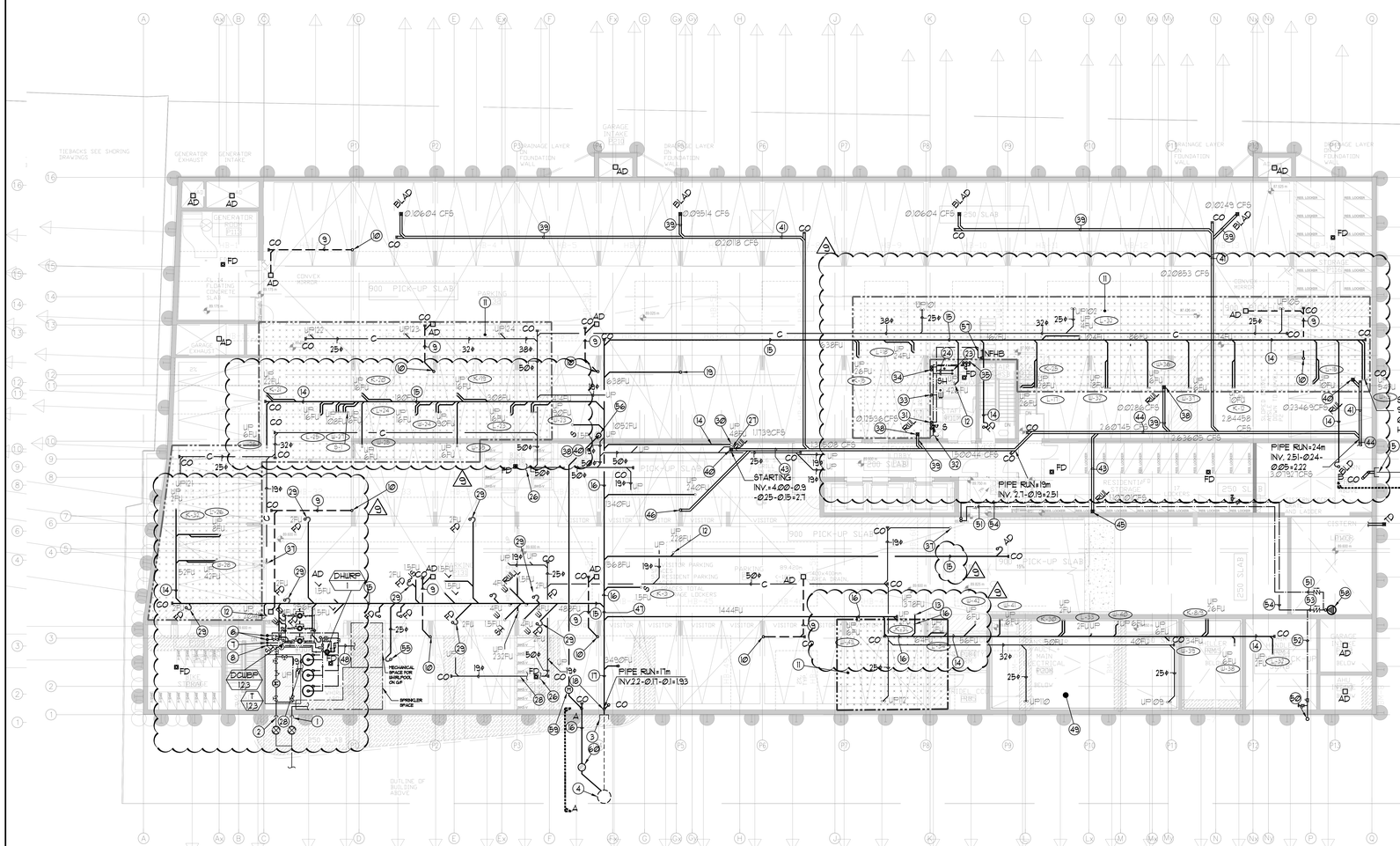
STORM PIPE DETAIL SECTION B-B | N.T.S.



ENLARGED MECHANICAL ROOM LAYOUT | SCALE 1:50



ENLARGED STAFF ROOM LAYOUT | SCALE 1:50



56 75ø PUMPED PIPE FROM BELOW c/w HEAT TRACING. HEAT TRACING BY DIV. 16. INSULATION AND JACKET BY THIS CONTRACTOR.

57 19ø DCW FOR NFHB.

58 MULTI-STAGE SUBMERSIBLE IRRIGATION PUMP TO BE PUMP TRONICS MODEL * CUS-1CSS-30/160-3-3550-208/3/60 CONSTANT SPEED PUMP STATION TO SUPPLY 30 USGPM @ 60 PSI GROUND LEVEL. THE PUMP SHALL ALSO SUPPLY 10 USGPM @ 50 PSI AT THE 10TH FLOOR TERRACE. MOTOR SPEED IS 3550 RPM. PUMP TO BE CW/ A WATER LUBRICATED STAINLESS STEEL SHAFT, STAINLESS STEEL IMPELLERS, STRAINER, DISCHARGE HEAD AND INVERTER DUTY MOTOR. THE CONTROL PANEL SHALL BE MOUNTED REMOTE FROM THE PUMP STATION AT THE MUNICIPAL FEED. WIRE SHALL BE PROVIDED BETWEEN THE CONTROL PANEL AND PUMP STATION. CONDUIT SHALL BE SUPPLIED AND INSTALLED BY DIV.16. THE PUMP STATION SHALL START FROM A SIGNAL FROM THE IRRIGATION CONTROLLER MASTER VALVE.

59 FLOW METER TO BE SONIC-PRO HYBRID ULTRASONIC FLOW METER.

60 WELDED TEE EXTENTION TO ABOVE FOR GROUND WATER SAMPLING STATION ACCESS. SEE GROUND WATER SAMPLING STATION DETAILS.

REFER TO DWG. M-3 FOR GENERAL AND ACOUSTIC NOTES

△ 3800mm CLEAR FLOOR TO UNDERSLAB

KEYNOTES:

1. 150ø FIRE LINE CONNECTION FROM SITE SERVICE. SEE SPRINKLER DRAWING FOR CONTINUATION.
2. 100ø DCW MAIN CONNECTION FROM SITE SERVICE.
3. 300ø SAN LEAVING PIPE @ 2% AT INV. 89.00.
4. 1200ø MANHOLE BY OTHERS.
5. 375ø STORM LEAVING PIPE @ 2% AT INV. 91.13
6. 100ø DCW (LZ) & 100ø DCW (HZ) UP TO G/F.
7. 75ø DHW (LZ) UP TO G/F.
8. 50ø DHWR (LZ) FROM ABOVE.
9. 100ø SAN @ 1% ON CEILING OF P-2.
10. 100ø SAN DOWN.
11. HEATED PLENUM BELOW TOWNHOUSES BY OTHERS.
12. 150ø SAN FROM ABOVE.
13. 200ø SAN FROM ABOVE.
14. 100ø SAN @ 1%.
15. 150ø SAN @ 1%.
16. 200ø SAN @ 1%.
17. 300ø SAN @ 1%.
18. 250ø SAN DOWN, c/w CLEANOUT AT BASE AND CONNECT TO SITE SERVICE LEAVING SAN MAIN(ON P-2)
19. 75ø SAN PUMPED FROM BELOW c/w HEAT TRACING. HEAT TRACING BY DIV. 16. INSULATION & JACKET BY THIS CONTRACTOR.
20. 50ø DCW & 38ø DHW FROM ABOVE.
21. NOTE DELETED.
22. NOTE DELETED.
23. 32ø DCW & 25ø DHW FROM ABOVE.
24. 32ø DCW & 25ø DHW.
25. NOTE DELETED.
26. 50ø CONDENSATE PIPE CONNECT INDIRECTLY TO THE NEAREST WASTE.
27. 50ø CONDENSATE PIPE FROM ABOVE.
28. 19ø CONDENSATE PIPE CONNECT INDIRECTLY TO THE NEAREST WASTE.
29. DRAIN TRAP TO BE HEAT TRACED BY DIV. 16. THIS CONTRACTOR TO INSULATE & JACKET (TYPICAL).
30. 100ø SAN FROM ABOVE. △
31. 19ø DCW & 19ø DHW DOWN TO SERVE (1) KITCHEN SINK.
32. 19ø DHW TO SERVE (1) DISHWASHER.
33. 19ø DCW DOWN TO SERVE (1) WATER CLOSET.
34. 19ø DCW & 19ø DHW DOWN TO SERVE (1) SHOWER.
35. 19ø DCW & 19ø DHW DOWN TO SERVE (1) LAVATORY.
36. FOR FUTURE USE.
37. 19ø CONDENSATE PIPE FROM ABOVE.
38. 100ø RWL FROM ABOVE.
39. 100ø STM @1%.
40. 250ø RWL FROM ABOVE.
41. 150ø STM @1%.
42. 200ø STM @1%.
43. 250ø STM @1%.
44. 300ø STM @1%.
45. 200ø RWL FROM ABOVE.
46. 75ø STM PUMPED FROM BELOW c/w HEAT TRACING. HEAT TRACING BY DIV. 16. INSULATION & JACKET BY THIS CONTRACTOR.
47. 250ø SAN @ 1%.
48. 25ø DCW FOR WHIRLPOOL EQUIPMENT.
49. DOUBLE SLAB.
50. 38ø UP TO G/F FOR IRRIGATION CONNECTION.
51. 38ø DCW MAKE -UP WATER LINE FOR IRRIGATION C/W REDUCE PRESSURE BACK FLOW PREVENTER. SEE IRRIGATION DRAWING FOR DETAILS.
52. 38ø IRRIGATION PIPE C/W SHUT OFF & DRAIN VALVE UP TO G/F CAPPED POINT FOR CONNECTION. SEE IRRIGATION DRAWING FOR DETAILS.
53. 38ø IRRIGATION PIPE.
54. 32ø IRRIGATION PIPE C/W SHUT OFF & DRAIN VALVE UP TO G/F CAPPED POINT FOR CONNECTION. SEE IRRIGATION DRAWING FOR DETAILS.
55. WHIRLPOOL DRAIN. EXACT LOCATION TO BE CONFIRMED BY WHIRLPOOL CONSULTANT

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
MFD	MOTORIZED DAMPER
MFD	MOTORIZED FIRE DAMPER
BDD	BACKDRAFT DAMPER
OBD	OPPOSED BLADE VOLUME CONTROL DAMPER OR LOOKING QUADRANT
	TURNING VANES
	FLEXIBLE CONNECTION
	ACOUSTIC INSULATION
	TYPE OF EQUIPMENT / EQUIPMENT IDENTIFICATION
	TYPE OF DIFFUSER OR GRILLE / GRILLE SIZE OR DIFFUSER NECK SIZE / AIRFLOW (CFM OR L/S)
	STARTER (3 PHASE / PHASE)
S	IN-SITE ERV MASTER SWITCH
S	FAN SWITCH / IN-SITE ERV OVERRIDE SWITCH
CO	CO SENSOR
	GAS LINE
	GAS METER
	GAS COCK
	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
	WATER METER
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
HD	HUB DRAIN
RD	ROOF DRAIN
RLD	RLAB 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
	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
	1/2"x4"(D) THERMOWELL C/W 1/2" BUSHING & 1/2" PLUG
	FLOOR ELEVATION ABOVE LEVEL
	FLOOR ELEVATION THIS LEVEL
	HEADROOM (FLOOR TO U/S HEIGHT)

DATE	NO.	DESCRIPTION	BY
07/06/15	5	ISSUED FOR SITE INSTRUCTION #5-4	E.P.
05/06/15	4	ISSUED FOR SITE INSTRUCTION #4-3	E.P.
05/05/15	3	ISSUED FOR SITE INSTRUCTION #1-4	E.P.
04/17/15	6	ISSUED FOR CITY COMMENTS	E.P.
04/17/15	5	ISSUED FOR SITE INSTRUCTION #1-3	E.P.
03/27/15	4	ISSUED FOR SITE INSTRUCTION #1-1	E.P.
07/03/14	3	ISSUED FOR TENDER	E.P.
07/18/14	2	RE-ISSUED FOR PERMIT	E.P.
05/30/14	1	ISSUED FOR PERMIT	E.P.
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 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

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115 West Beaver Creek Road, Unit 31
Richmond Hill, Ontario L4B 3M1
Tel: 905 882-5445
Fax: 905 882-5447

DRAWING TITLE: P-1 FLOOR PLAN P&D LAYOUT

PROJECT TITLE: 90 ALEXANDRA PARK BLOCK 11
38 CAMERON STREET
TORONTO ONTARIO

DRAWN BY:	CHECKED BY:	SCALE:
G.S.	E.P.	1:100
DATE: FEB. 13	PROJECT NUMBER: 1313	DRAWING NUMBER: M-5 of 43