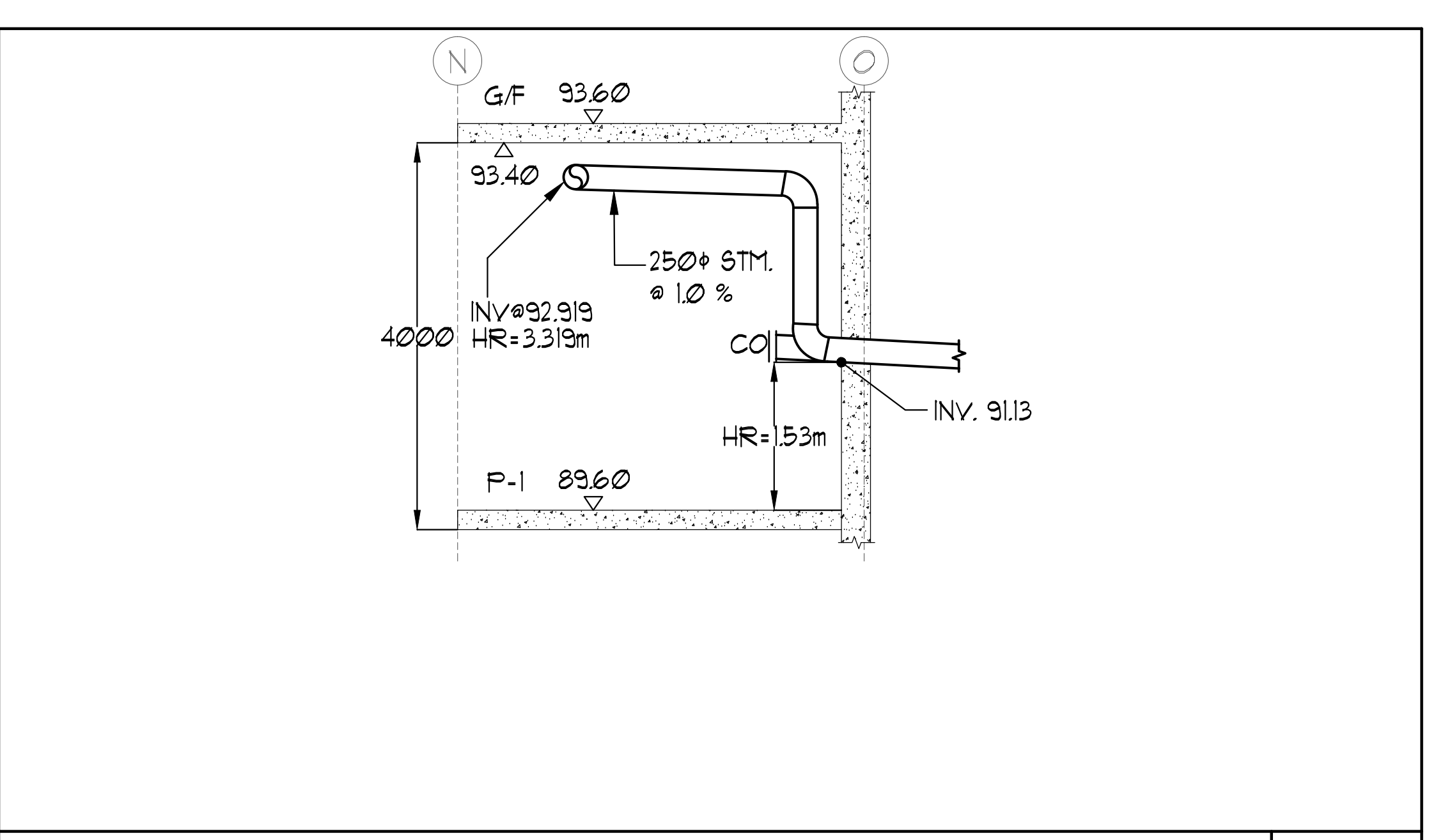
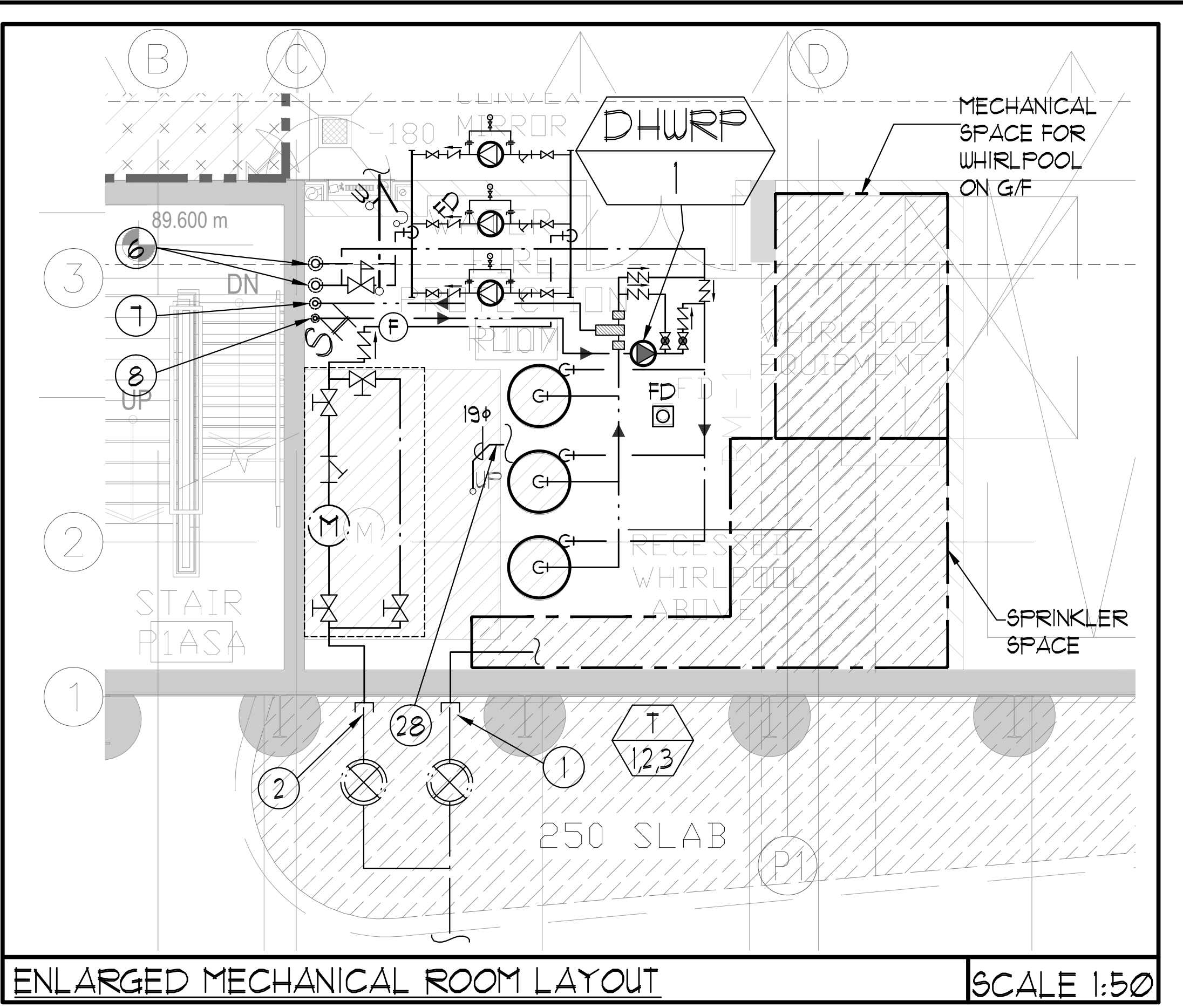


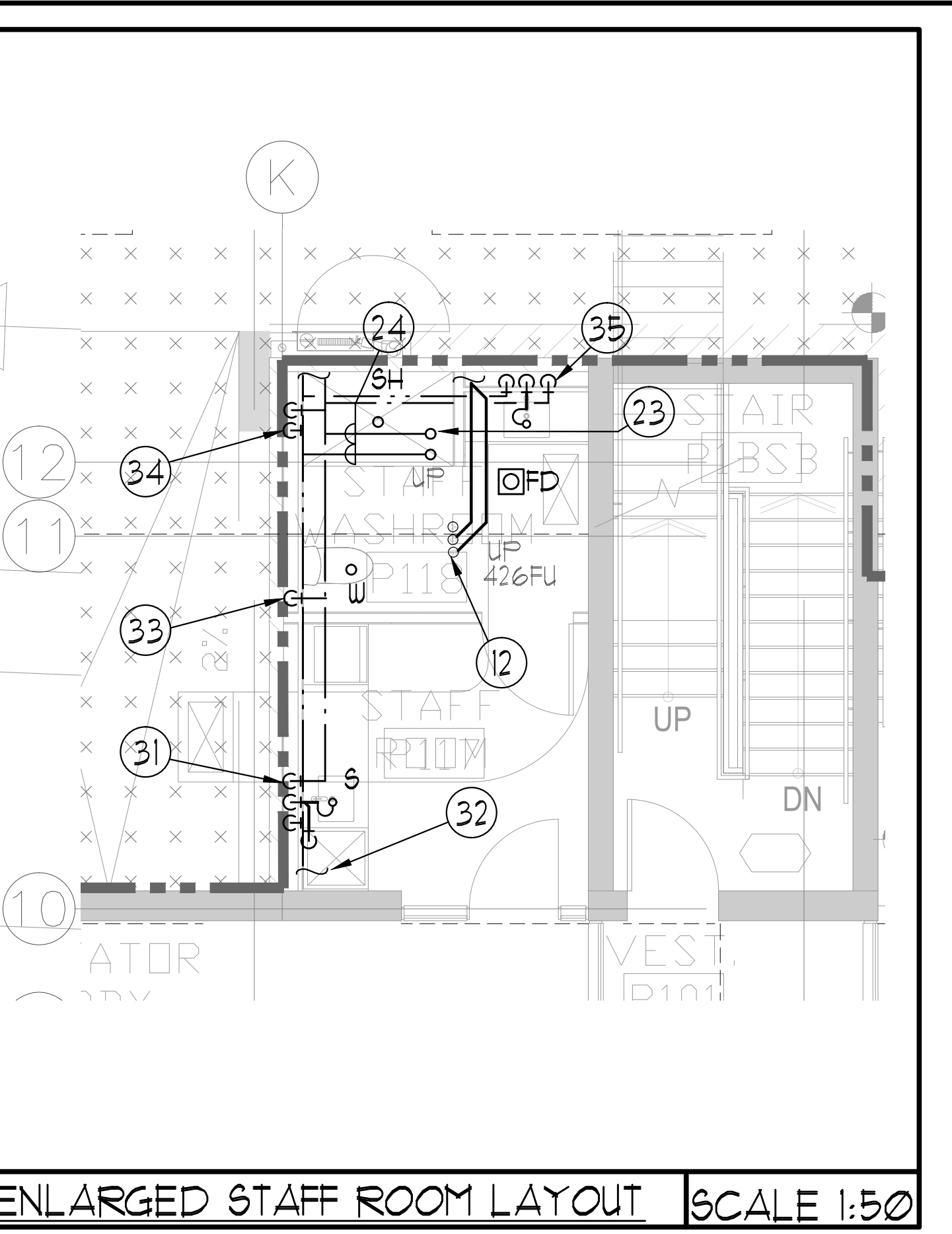
SANITARY PIPE DETAIL SECTION A-A N.T.S.



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



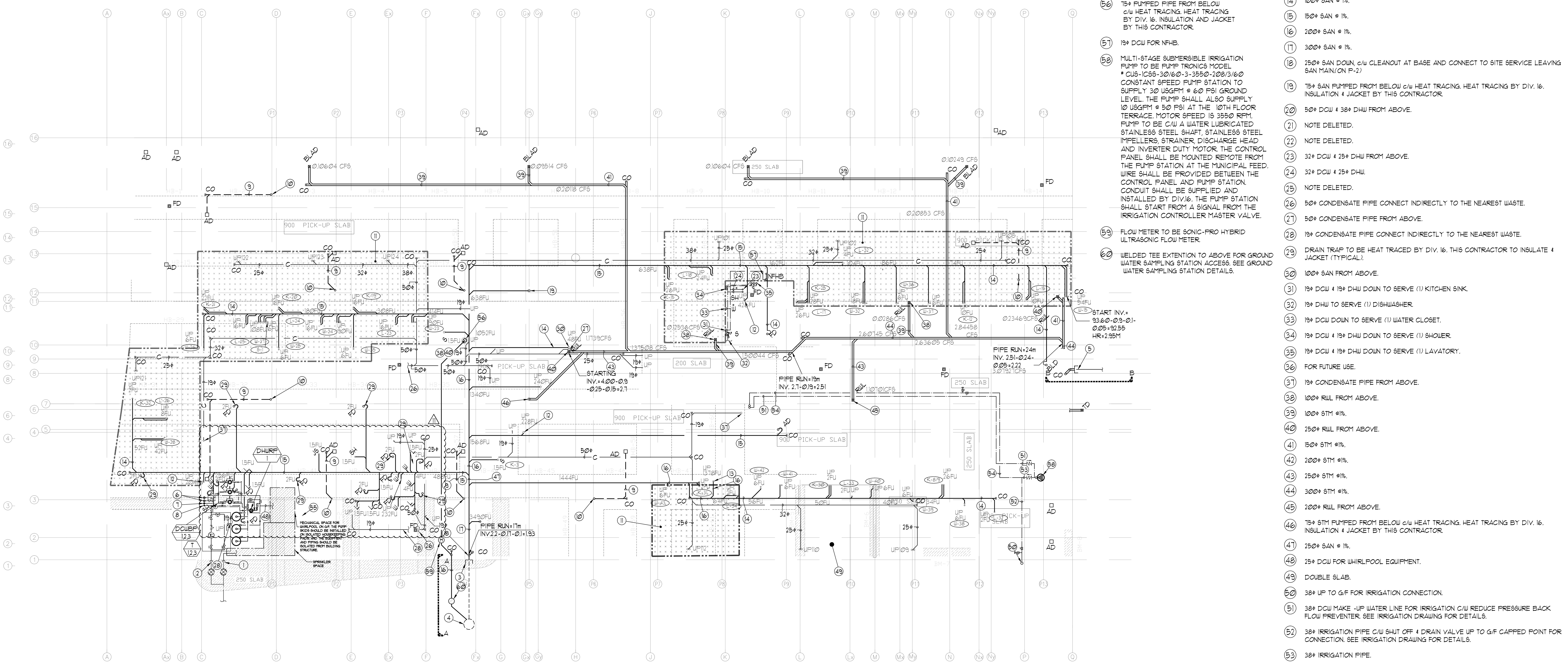
ENLARGED MECHANICAL ROOM LAYOUT SCALE 1:50



ENLARGED STAFF ROOM LAYOUT SCALE 1:50

- REFER TO DWG. M-3 FOR GENERAL AND ACOUSTIC NOTES
- 3800mm CLEAR FLOOR TO UNDERSLAB
- KEYNOTES:
- 150+ FIRE LINE CONNECTION FROM SITE SERVICE. SEE SPRINKLER DRAWING FOR CONTINUATION.
 - 100+ DCW MAIN CONNECTION FROM SITE SERVICE.
 - 300+ SAN LEAVING PIPE @ 2% AT INV. 89.00.
 - 1200+ MANHOLE BY OTHERS.
 - 375+ STORM LEAVING PIPE @ 2% AT INV. 91.13
 - 100+ DCW (LZ) & 100+ DCW (HZ) UP TO G.F.
 - 15+ DHUR (LZ) UP TO G.F.
 - 50+ DHUR (LZ) FROM ABOVE.
 - 100+ SAN @ 1% ON CEILING OF P-2.
 - 100+ SAN DOWN.
 - HEATED FLENUM BELOW TOWNHOUSES BY OTHERS.
 - 150+ SAN FROM ABOVE.
 - 200+ SAN FROM ABOVE.
 - 100+ SAN @ 1%.
 - 150+ SAN @ 1%.
 - 200+ SAN @ 1%.
 - 300+ SAN @ 1%.
 - 250+ SAN DOWN, C/W CLEANOUT AT BASE AND CONNECT TO SITE SERVICE LEAVING SAN MAIN/ON P-2.
 - 15+ SAN PUMPED FROM BELOW C/W HEAT TRACING, HEAT TRACING BY DIV. 16, INSULATION & JACKET BY THIS CONTRACTOR.
 - 50+ DCW & 38+ DHUR FROM ABOVE.
 - NOTE DELETED.
 - NOTE DELETED.
 - 32+ DCW & 25+ DHUR FROM ABOVE.
 - 32+ DCW & 25+ DHUR.
 - NOTE DELETED.
 - 50+ CONDENSATE PIPE CONNECT INDIRECTLY TO THE NEAREST WASTE.
 - 50+ CONDENSATE PIPE FROM ABOVE.
 - 15+ CONDENSATE PIPE CONNECT INDIRECTLY TO THE NEAREST WASTE.
 - DRAIN TRAP TO BE HEAT TRACED BY DIV. 16. THIS CONTRACTOR TO INSULATE & JACKET (TYPICAL).
 - 100+ SAN FROM ABOVE.
 - 15+ DCW & 15+ DHUR DOWN TO SERVE (1) KITCHEN SINK.
 - 15+ DHUR TO SERVE (1) DISHWASHER.
 - 15+ DCW DOWN TO SERVE (1) WATER CLOSET.
 - 15+ DCW & 15+ DHUR DOWN TO SERVE (1) SHOWER.
 - 15+ DCW & 15+ DHUR DOWN TO SERVE (1) LAVATORY.
 - FOR FUTURE USE.
 - 15+ CONDENSATE PIPE FROM ABOVE.
 - 100+ RUL FROM ABOVE.
 - 100+ 5TM @ 1%.
 - 250+ RUL FROM ABOVE.
 - 150+ 5TM @ 1%.
 - 200+ 5TM @ 1%.
 - 250+ 5TM @ 1%.
 - 300+ 5TM @ 1%.
 - 200+ RUL FROM ABOVE.
 - 15+ 5TM PUMPED FROM BELOW C/W HEAT TRACING, HEAT TRACING BY DIV. 16, INSULATION & JACKET BY THIS CONTRACTOR.
 - 250+ SAN @ 1%.
 - 25+ DCW FOR WHIRLPOOL EQUIPMENT.
 - DOUBLE SLAB.
 - 38+ UP TO G/F FOR IRRIGATION CONNECTION.
 - 38+ DCW MAKE -UP WATER LINE FOR IRRIGATION C/W REDUCE PRESSURE BACK FLOW PREVENTER. SEE IRRIGATION DRAWING FOR DETAILS.
 - 38+ IRRIGATION PIPE C/W SHUT OFF & DRAIN VALVE UP TO G/F CAPPED POINT FOR CONNECTION. SEE IRRIGATION DRAWING FOR DETAILS.
 - 38+ IRRIGATION PIPE.
 - 32+ IRRIGATION PIPE C/W SHUT OFF & DRAIN VALVE UP TO 3/F CAPPED POINT FOR CONNECTION. SEE IRRIGATION DRAWING FOR DETAILS.
 - WHIRLPOOL DRAIN EXACT LOCATION TO BE CONFIRMED BY WHIRLPOOL CONSULTANT.

LEGEND MECHANICAL	
SYMBOL	DESCRIPTION
[Symbol]	SUPPLY AIR DIFFUSER
[Symbol]	SUPPLY AIR TRIGGER
[Symbol]	LINEAR SUPPLY DIFFUSER
[Symbol]	FAN BAY
[Symbol]	RETURN AIR GRILLE
[Symbol]	EXHAUST AIR GRILLE
[Symbol]	SUPPLY DUCT UP
[Symbol]	RETURN DUCT UP
[Symbol]	SUPPLY DUCT DOWN
[Symbol]	RETURN DUCT DOWN
[Symbol]	EXHAUST DUCT UP
[Symbol]	EXHAUST DUCT DOWN
[Symbol]	FIRE DAMPER
[Symbol]	BALANCING DAMPER
[Symbol]	375+ STORM LEAVING PIPE @ 2% AT INV. 91.13
[Symbol]	MOTORIZED DAMPER
[Symbol]	MOTORIZED FIRE DAMPER
[Symbol]	BACKDRIFT DAMPER
[Symbol]	OPPOSITE BLADE VALVE CONTROL DAMPER
[Symbol]	CO. LOCK
[Symbol]	TUNING VANES
[Symbol]	FLEXIBLE CONNECTION
[Symbol]	ACOUSTIC INSULATION
[Symbol]	TYPE OF EQUIPMENT
[Symbol]	REQUIREMENT IDENTIFICATION
[Symbol]	TYPE OF CHIMNEY OR GRILLE
[Symbol]	SMALL OR DIFFERENT MAKE SIZE
[Symbol]	ANALOG (OH OR LS)
[Symbol]	STARTER / 3 PHASE / PHASE
[Symbol]	IN-SITE ENV. PASTER BATTERY
[Symbol]	FAN SWITCH / IN-SITE ENV. OVERRIDE BUTTON
[Symbol]	CO. SENSOR
[Symbol]	GAS LINE
[Symbol]	GAS METER
[Symbol]	GAS SOCK
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	SANITARY ABOVE GRADE
[Symbol]	SANITARY BELOW GRADE
[Symbol]	STORM ABOVE GRADE
[Symbol]	STORM BELOW GRADE
[Symbol]	DOPPELSTIC COLD WATER
[Symbol]	DOPPELSTIC HOT WATER
[Symbol]	DOPPELSTIC HOT WATER RECIRCULATION
[Symbol]	SANITARY VENT
[Symbol]	WATER METER
[Symbol]	FLOOR DRAIN
[Symbol]	PANNELED FLOOR DRAIN
[Symbol]	AREA DRAIN
[Symbol]	ROOF DRAIN
[Symbol]	SLAB DRAIN
[Symbol]	AREA DRAIN
[Symbol]	B1-LEVEL AREA DRAIN
[Symbol]	CATCH BASIN
[Symbol]	SANITARY TRAP
[Symbol]	ELBOW UP
[Symbol]	ELBOW DOWN
[Symbol]	WALL CLEANOUT
[Symbol]	FLOOR CLEANOUT
[Symbol]	ELBOW DOWN
[Symbol]	NON-FREEZE HOSE BIBBS
[Symbol]	GLOBE VALVE
[Symbol]	GATE VALVE
[Symbol]	BALL VALVE
[Symbol]	BUTTERFLY VALVE
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	CAPE
[Symbol]	COMPRESSED AIR OUTLET
[Symbol]	BACKUP OF PREVENTER
[Symbol]	CIRCUIT BALANCING VALVE
[Symbol]	MULTIPLE PIPES
[Symbol]	DENOTES NO. OF PIPES
[Symbol]	TEMPERATURE SENSOR
[Symbol]	THERMISTOR
[Symbol]	1-WAY MODULATING VALVE
[Symbol]	3-WAY MODULATING VALVE
[Symbol]	17-WAY THERMISTOR
[Symbol]	C/W 17' BUILDING & 10' PLUGS
[Symbol]	FLOOR ELEVATION ABOVE LEVEL
[Symbol]	C/W 17' BUILDING & 10' PLUGS
[Symbol]	HEADROOM FLOOR TO GS LEVEL



NO.	DESCRIPTION	DATE	BY
01	ISSUED FOR SITE INSPECTION #15		EP
02	ISSUED FOR SITE INSPECTION #16		EP
03	ISSUED FOR SITE INSPECTION #16		EP
04	ISSUED FOR SITE INSPECTION #15		EP
05	ISSUED FOR SITE INSPECTION #14		EP
06	ISSUED FOR SITE INSPECTION #14		EP
07	ISSUED FOR SITE INSPECTION #15		EP
08	ISSUED FOR SITE INSPECTION #11		EP
09	ISSUED FOR REVIEW		EP
10	ISSUED FOR PERMIT		EP
11	ISSUED FOR PERMIT		EP
12	ISSUED FOR PERMIT		EP
13	ISSUED FOR PERMIT		EP
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55	ISSUED FOR PERMIT		EP

NOVA ENGINEERING

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Fax: 905-882-5441

PROJECT TITLE:
60 ALEXANDRA PARK
BLOCK II
38 CAMERON STREET
TORONTO

PROJ. NO.:
G.S. E.P. SCALE: 1:100

DATE:
FEB 13 1313 DRAWING NUMBER:
M-5 OF 45