

CODE REVIEW - NBC 1990

1. OCCUPANCY CLASSIFICATION MAJOR OCCUPANCIES: WATER TREATMENT PLANT
TOTAL BUILDING AREA: 1999m²
WATER LABORATORY: 152m²
WASTEWATER LABORATORY: 156m²
TOTAL LABORATORY AREA: 368m²
NO. OF STREETS: 4
SPRINKLERED: NO
CLASSIFICATION(S) OF BUILDING:
MAJOR OCCUPANCY: 3.2.2.59 IN
DX

3.2.2.59 INDUSTRIAL BUILDINGS, GROUP F, DMSION 3 1 AND 2 STOREYS

2. HEIGHT AND AREA REQUIREMENTS

TYPE OF CONSTRUCTION: COMBUSTIBLE OR NONCOMBUSTIBLE (BUILDING IS NONCOMBUSTIBLE)
FLOOR ASSEMBLY ABOVE BASEMENT: 45 min.
OTHER FLOOR ASSEMBLES: 45 min.
BALCONIES AND MEZZANINES: 45 min.
ROOF ASSEMBLY: 45 min. OR NONCOMBUSTIBLE
LOAD BEARING WALLS AND COLUMNS: 45 min. OR NONCOMBUSTIBLE

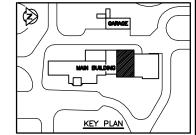
3. EXIT REQUIREMENTS

MINIMUM REQUIRED FROM EACH LAB AREA: 3.3.1.5 AND TABLE 3.3.1.A. — ONE REQUIRED (TWO PROVIDED) MINIMUM REQUIRED FROM THE ENTIRE LAB AREA: TABLE 3.4.2.A — TWO REQUIRED (FOUR PROVIDED)

4. FIRE SAFETY WITHIN FLOOR AREAS

SEPARATION OF LAB AREA: 3.3.1.1 (CONFORMS TO REQUIREMENTS FOR SEPARATION OF SUTES) TRAVEL DISTANCE: 3.42.5.(1)(F) - 30m (TRAVEL DISTANCE CONFORMS) TRAVEL IN OPPOSITE DIRECTION TO 2 EXITS: CONFORMS

PARTIAL FLOOR PLAN - LABORATORY RENOVATION

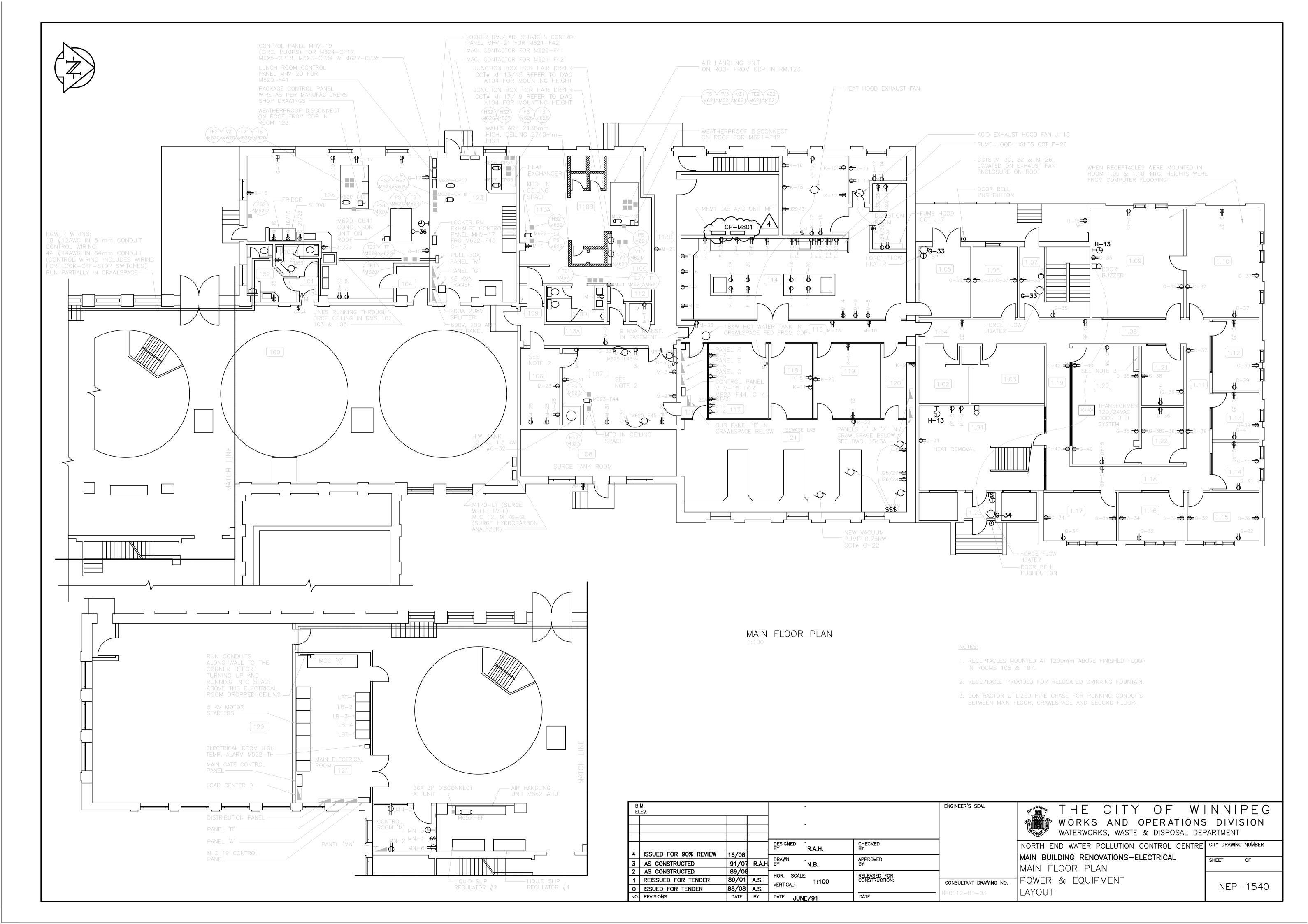


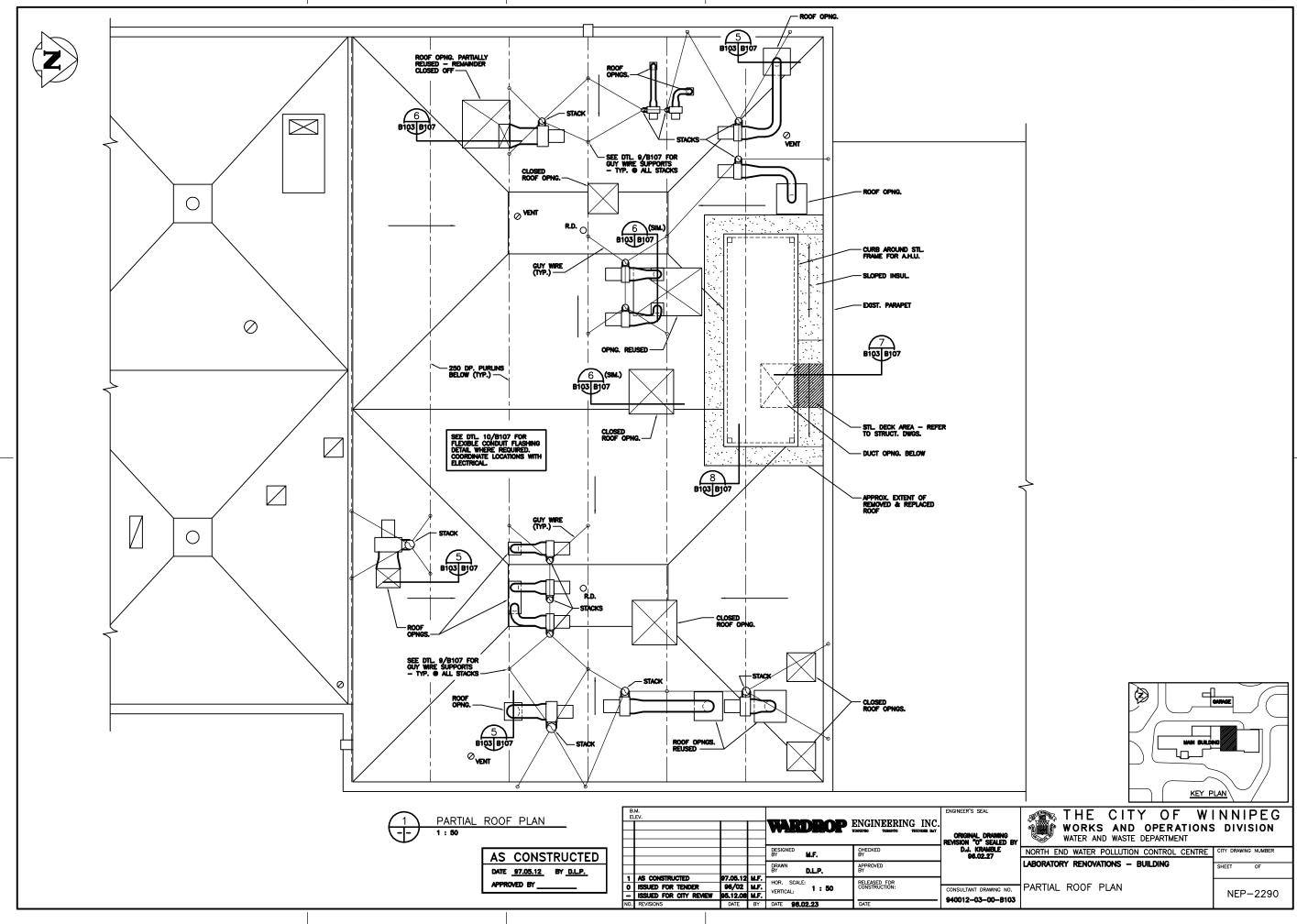
AS CONSTRUCTED DATE 97.05.12 BY D.L.P. APPROVED BY ___

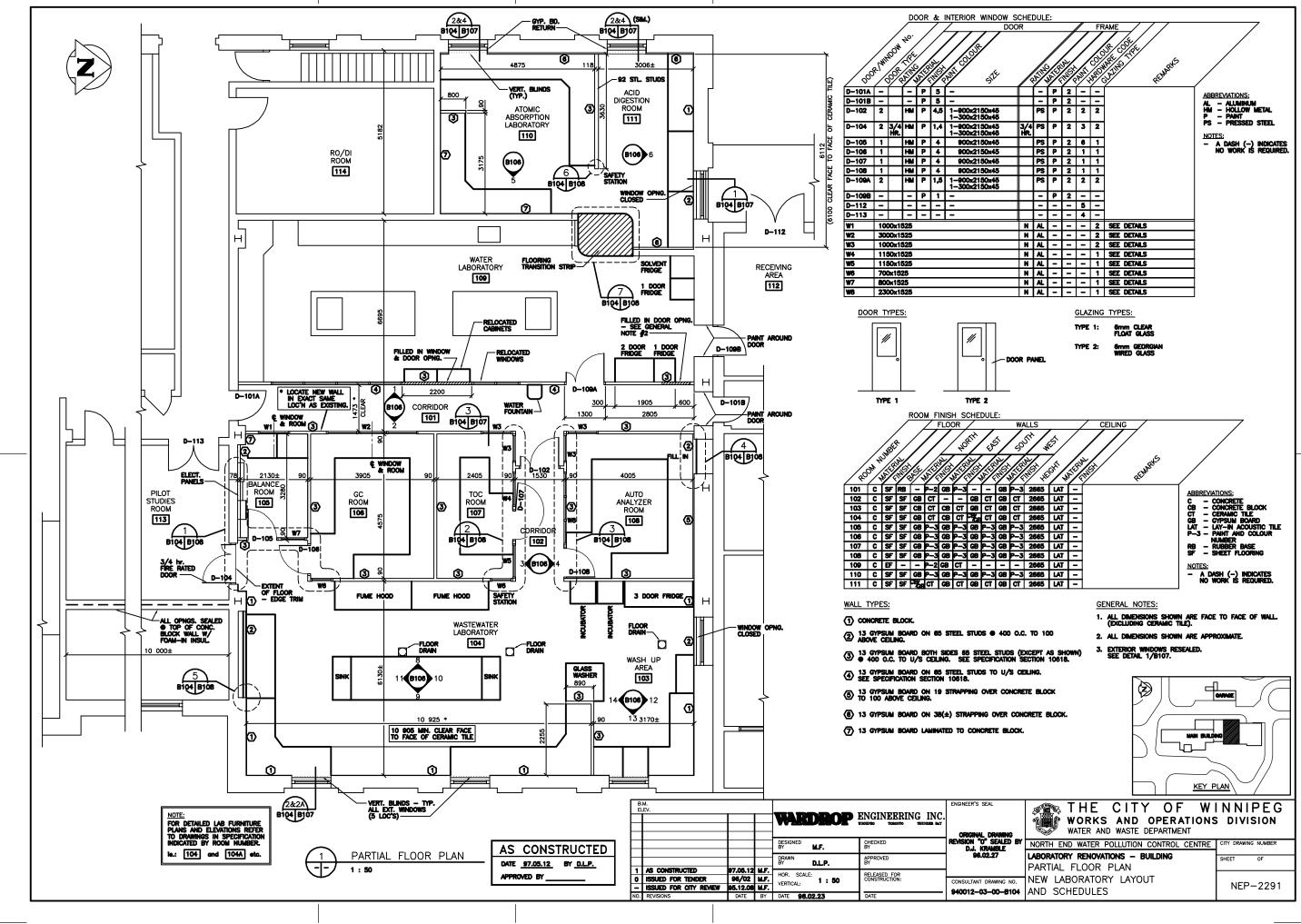
	.M. LEV.					ENGINEER'S SEAL
					ENGINEERING INC.	ORIGINAL_DRAWING
				DESIGNED M.F.	CHECKED BY	REVISION "O" SEALED BY D.J. KRAMBLE 96.02.27
				DRAWN BY D.L.P.	APPROVED BY	90.02.27
1	AS CONSTRUCTED	97.05.12		HOR, SCALE:	RELEASED FOR	
0	ISSUED FOR TENDER	96/02	M.F.	VERTICAL: 1 : 100	CONSTRUCTION:	CONSULTANT DRAWING NO.
-	ISSUED FOR CITY REVIEW	95.12.08	M.F.	VERTICAL		940012-03-00-B102
NO.	REVISIONS	DATE	BY	DATE 96.02.23	DATE	##0012-W-00-B102

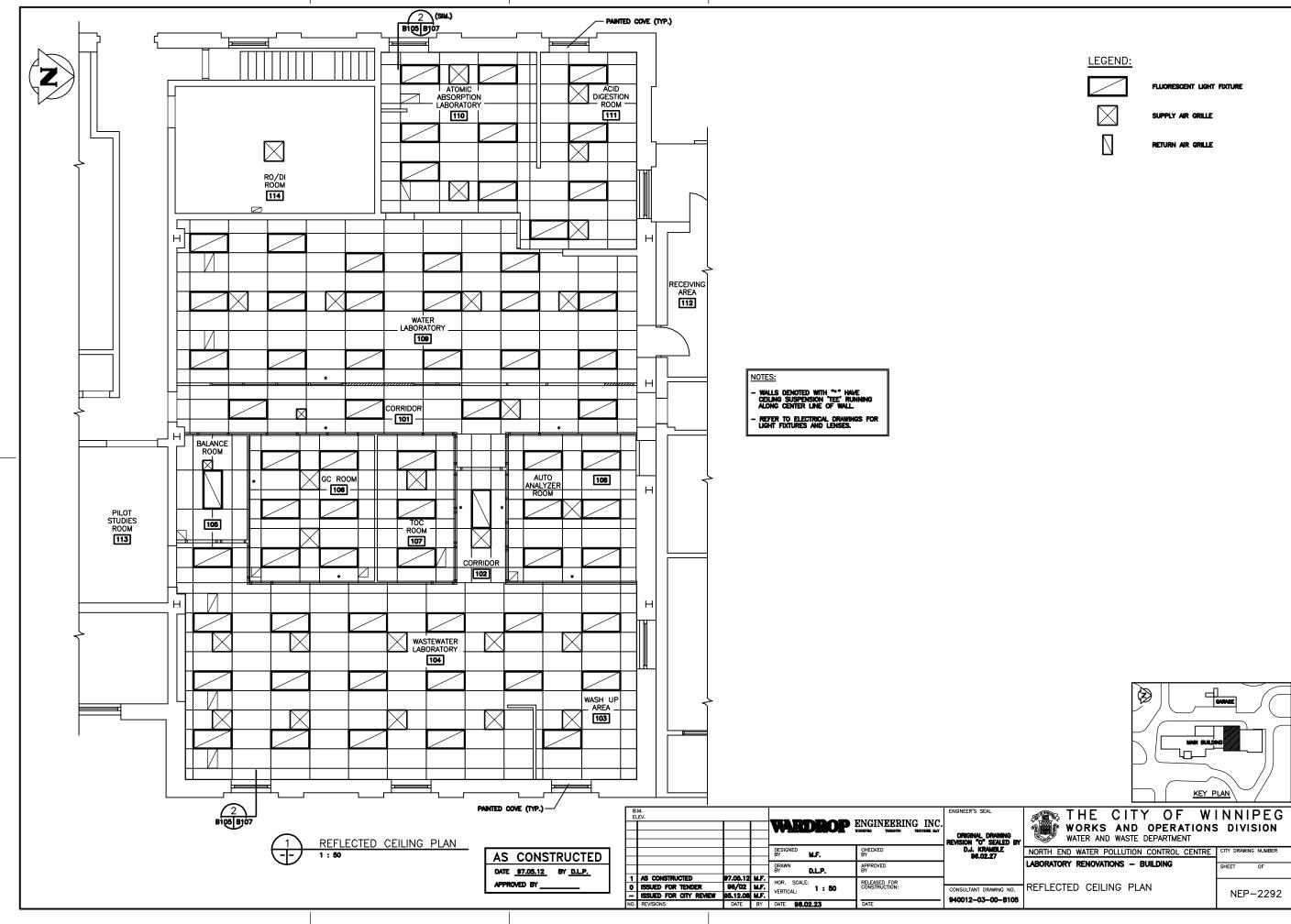
THE CITY OF WINNIPEG WORKS AND OPERATIONS DIVISION WATER AND WASTE DEPARTMENT

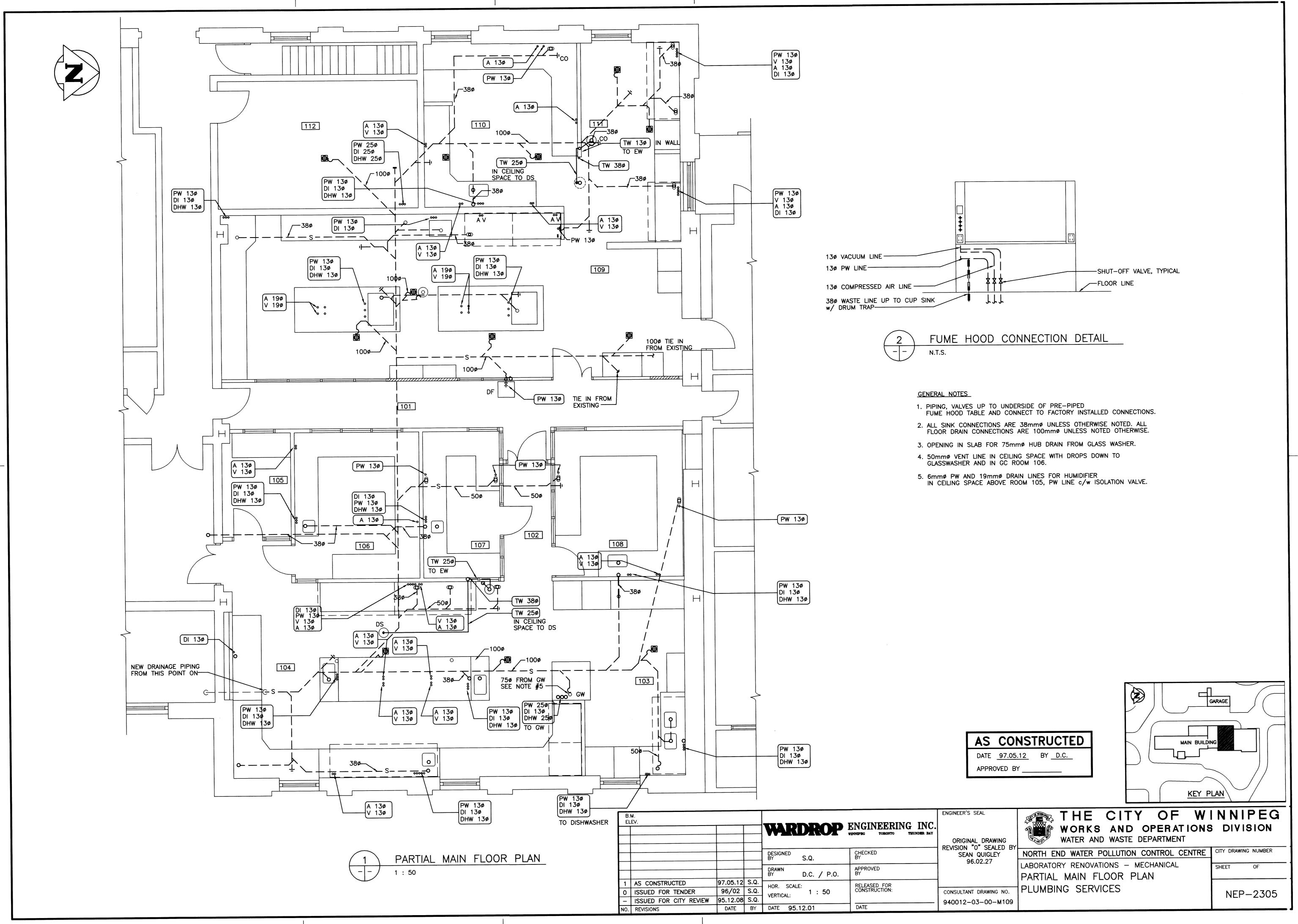
1	NORTH END WATER POLLUTION CONTROL CENTRE	CITY DRAWING NUMBER
	LABORATORY RENOVATIONS — BUILDING	SHEET OF
	RENOVATED FLOOR PLAN	NEP-2289

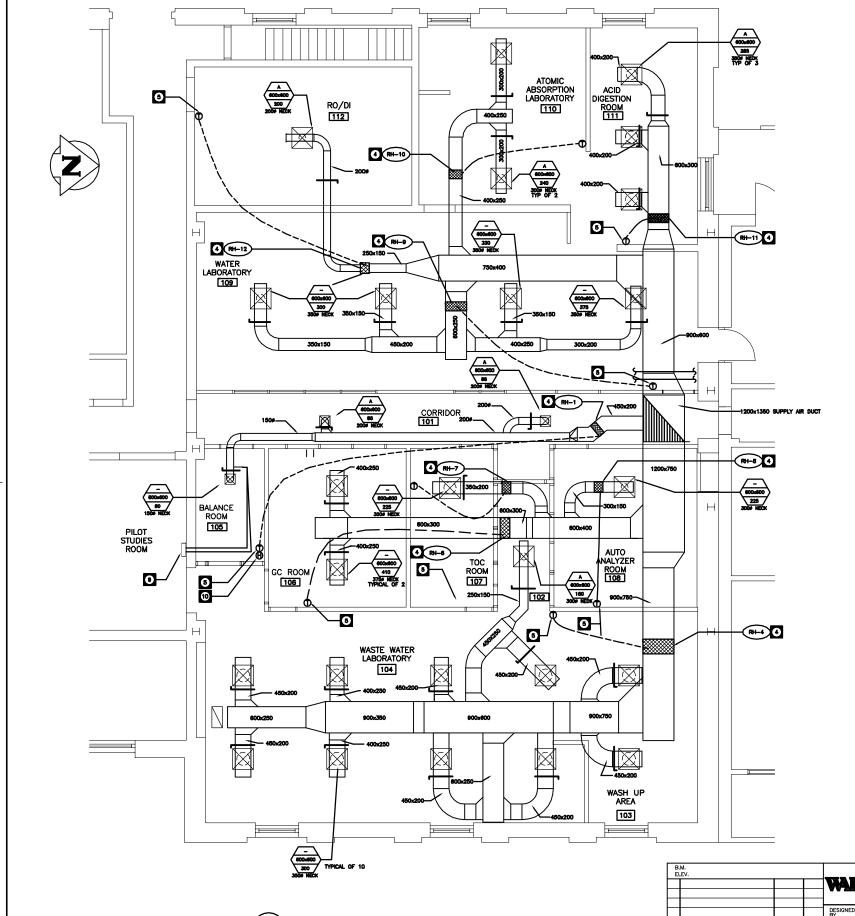












1500x900 SUPPLY AIR DUCT TO RISE UP ON EXTERIOR OF WALL ENTIRELY INSULATED AND COATED WITH WEATHERPROOF COMPOUND. DUCT TO ENTER BUILDING AT CEILING SPACE LEVEL.

AIR HANDLING UNIT AHU-1 AS SPECIFIED AT GRADE LEVEL ON SUPPORT PLATFORM. REFER DETAIL ON DRAWING M-113 FOR MOUNTING AND INSTALLATION.

3 RUN SUPPLY AIR DUCTWORK IN MAIN FLOOR CEILING SPACE.

TYPICAL REHEAT COIL REFER TO REHEAT COIL SCHEDULE FOR COIL SIZES AND CAPACITIES. REFER TO FLOOR PLAN MECHANICAL DRAWING M112 FOR REHEAT COIL HOT WATER HEATING PIPING CONNECTIONS. REFER TO MECHANICAL DRAWING M112 FOR DETAIL OF TYPICAL REHEAT COIL PIPING AND VALVING SCHEMATIC HOOK-UP.

PROVIDE NEW THERMOSTAT MOUNTED ON WALL WIRED TO CONTROL REHEAT COIL CONTROL VALVE (EXACT LOCATION TO BE SITE DETERMINED). REFER TO SPECIFICATION FOR SEQUENCE OF OPERATION.

REFER TO MECHANICAL DRAWING M114 FOR EXHAUST DUCT SYSTEMS FOR LABORATORY AREAS.

DENOTES TYPICAL BALANCE DAMPER.

MECHANICAL CONTRACTOR SHALL CO-ORDINATE AND CONFIRM FINAL LOCATIONS FOR ALL GRILLES AND DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLAN AND LICHTINIC LAYOUT. ADJUST CONNECTING DUCTWORK AS REQUIRED.

HUMIDIFIER H-1 AS SPECIFIED MOUNTED IN CEILING SPACE. CONNECT TO DISPERSION TUBING MOUNTED IN BALANCE ROOM SUPPLY AIR DUCTWORK. SEE M109 FOR PIPING FOR HUMIDIFIER.

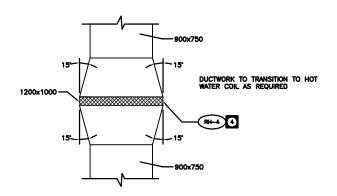
PROVIDE HUMIDISTAT CONTROL WIRED TO CYCLE HUMIDIFIER H-1.

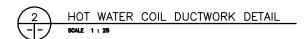
① SUPPLY AIR DUCTWORK TO SLOPE DOWN.

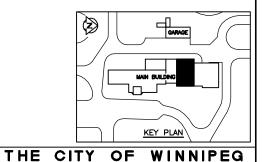
Ø CO-ORDINATE ALL DUCT RISERS WITH EXISTING STRUCTURAL BEAM.

B INSTALL DRIP PANS UNDER ALL REHEAT COILS, TYPICAL.

TRANSITION DUCTWORK TO SUIT HWS/HWR PIPING AT THIS LOCATION.









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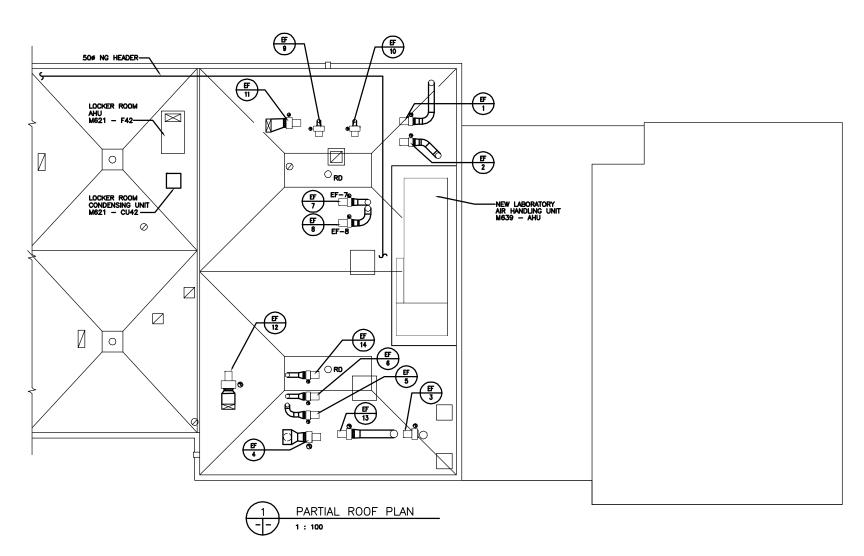
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				WAR		ENGINEERING INC.	ORIGINAL DRAWING REVISION "O" SEALED BY	WORKS AND OF WATER AND WASTE DEPART
				DESIGNED BY	s.q.	CHECKED BY	SEAN QUIGLEY 96.02.27	NORTH END WATER POLLUTION CON
				DRAWN BY	D.C., P.O.	APPROVED BY		LABORATORY RENOVATIONS — MECHA PARTIAL MAIN FLOOR PLAN
1		97.05.12		HOR. SCALE		RELEASED FOR		
-	ISSUED FOR TENDER ISSUED FOR CITY REVIEW	96.02 95.12.08	S.Q. S.Q.	VERTICAL: 1:50		CONSTRUCTION:	CONCOCIONAL DIVINING NO.	HEATING AND VENTILATION
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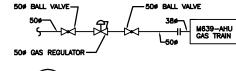
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WORKS AND OPERATIONS DIVISION WATER AND WASTE DEPARTMENT ND WATER POLLUTION CONTRO RY RENOVATIONS - MECHANIC ARTIAL MAIN FLOOR PLAN

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AL	SHEET	OF
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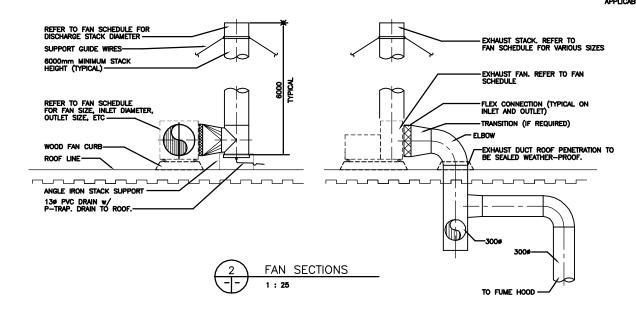






GAS CONNECTION DETAIL

- 1. REFER TO \$101 FOR LOCATION OF STEEL SUPPORT FRAME FOR M639 AHU.
- 2. EXHAUST FAN STACKS ARE DOUBLE WALL CHIMNEYS AS PER DIMISION 15.
- APPROXIMATE LOCATION OF 50mmø NATURAL GAS HEADER. NG HEADER ON WOOD BLOCKS IN ACCORDANCE WITH APPLICABLE GAS CODES.



AS CONSTRUCTED DATE <u>97.05.12</u> BY <u>D.C.</u> APPROVED BY __

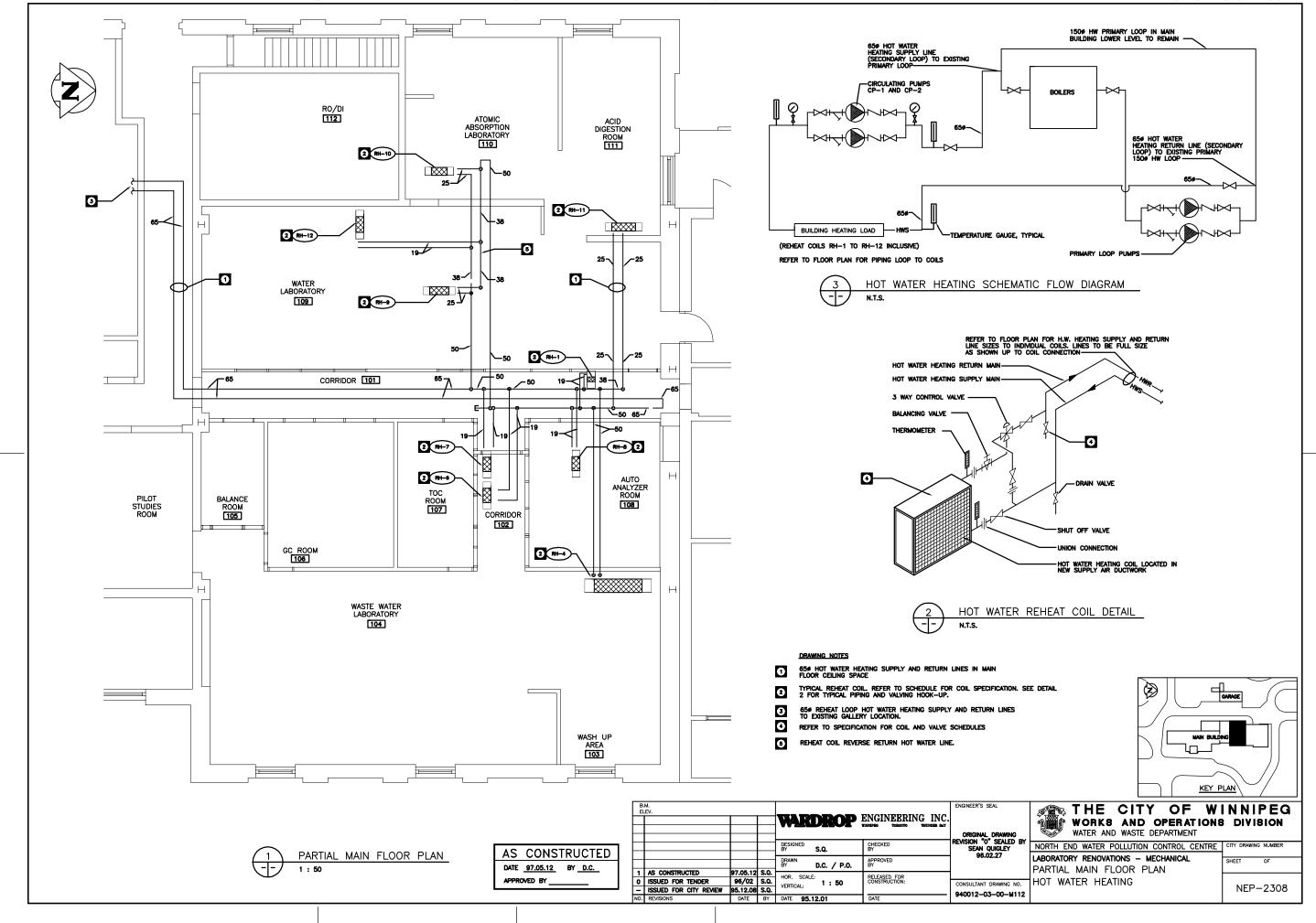


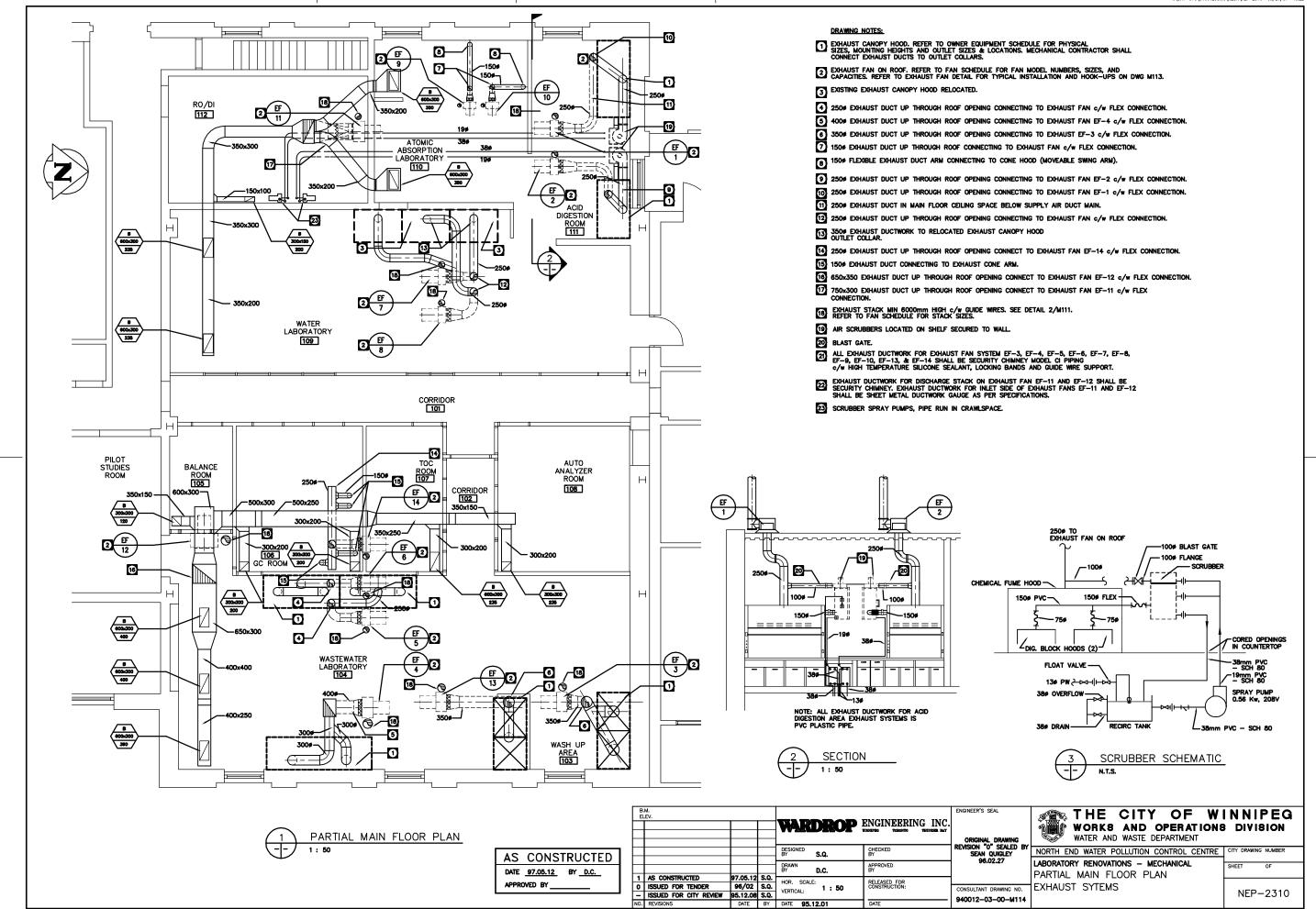
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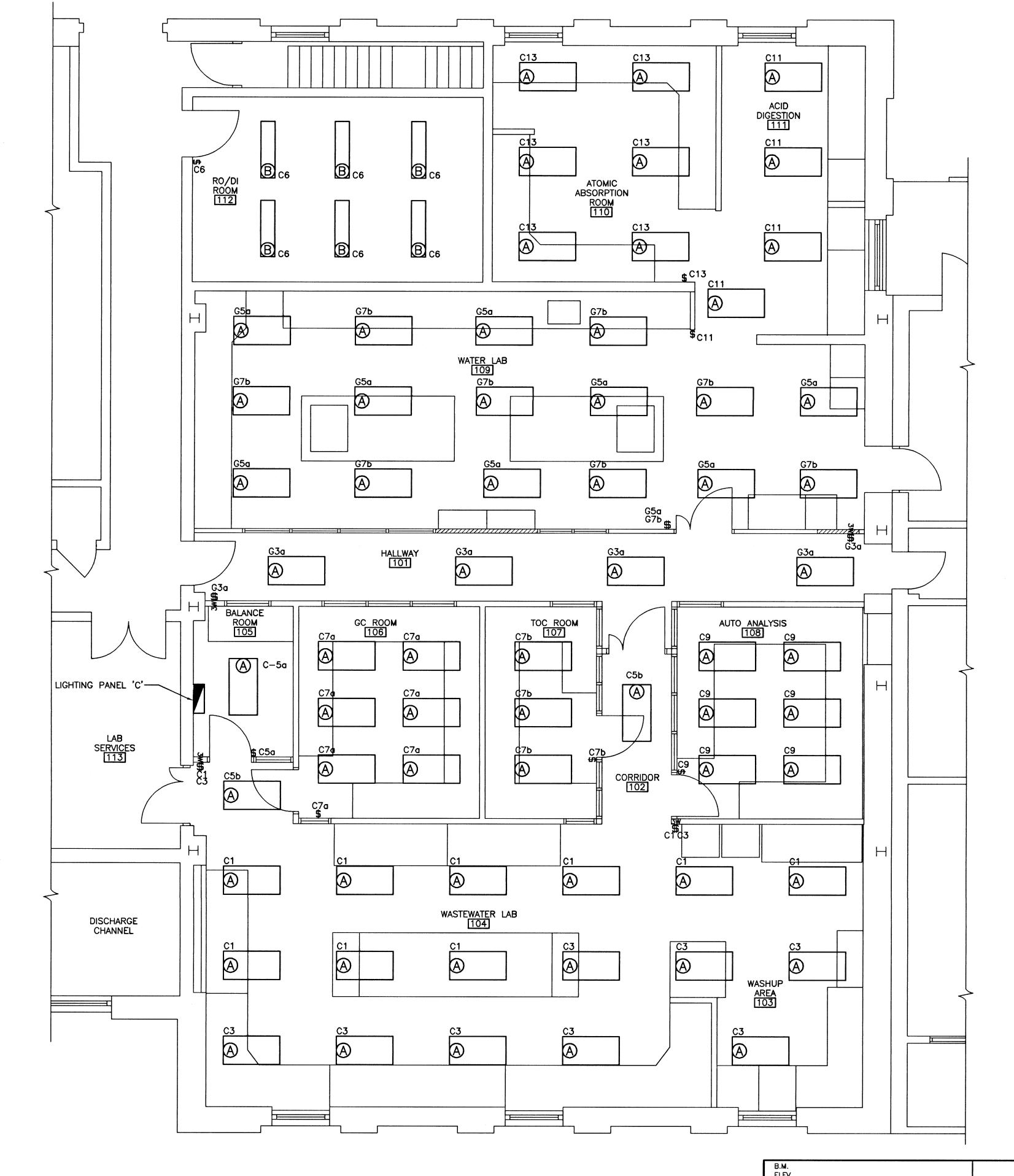
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PARTIAL ROOF PLAN	
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		ENGINEERING INC.	ORIGINAL DRAWING REVISION "O" SEALED BY
	DESIGNED BY S.Q.	CHECKED BY	SEAN QUIGLEY 98.02.27
	DRAWN BY D.C.	APPROVED BY	
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1 · 100 CONSTRUCTION:		CONCLUTANT DRAWING NO	

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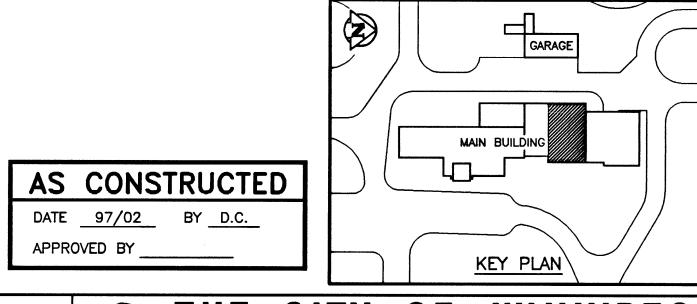


LIGHT FIXTURE SCHEDULE							
TYPE	DESCRIPTION	MOUNTING					
Α	2'x4' 3-32 WATT, 120V FLUORESCENT FIXTURE	T-BAR					
В	1'x4' 2-32 WATT, 120V FLUORESCENT FIXTURE	SUSPENDED FROM CEILING TO 9ft. FROM FLOOR					

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NOTES:

- CO-ORDINATE INSTALLATION OF NEW LIGHT FIXTURES WITH NEW CEILING AND NEW MECHANICAL DUCTWORK.
- FOR DETAILED DESCRIPTION OF LIGHT FIXTURES, REFER TO SPECIFICATIONS AND OPERATIONS & MAINTENANCE MANUALS.
- 3. LIGHTING PANEL "G" IS LOCATED IN MAIN BUILDING MECHANICAL ROOM NORTH OF LUNCHROOM.



						ENGINEER'S SEAL	Γ
•			14- 18	EROP	ENGINEERING INC. WINNIPBG TORONTO THUNDER BAY	ORIGINAL DRAWING	
			DESIGNED BY	R.M./B.T.	CHECKED BY	REVISION "O" SEALED BY W.B. TODD	
			DRAWN BY	H.P.C.C./D.C.	APPROVED BY	96.02.26	
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THE CITY OF WINNIPEG
WORKS AND OPERATIONS DIVISION
WATER AND WASTE DEPARTMENT

NORTH END WATER POLLUTION CONTROL CENTRE

CITY DRAWING NUMBER

NEP-2315

LIGHTING FLOOR PLAN

