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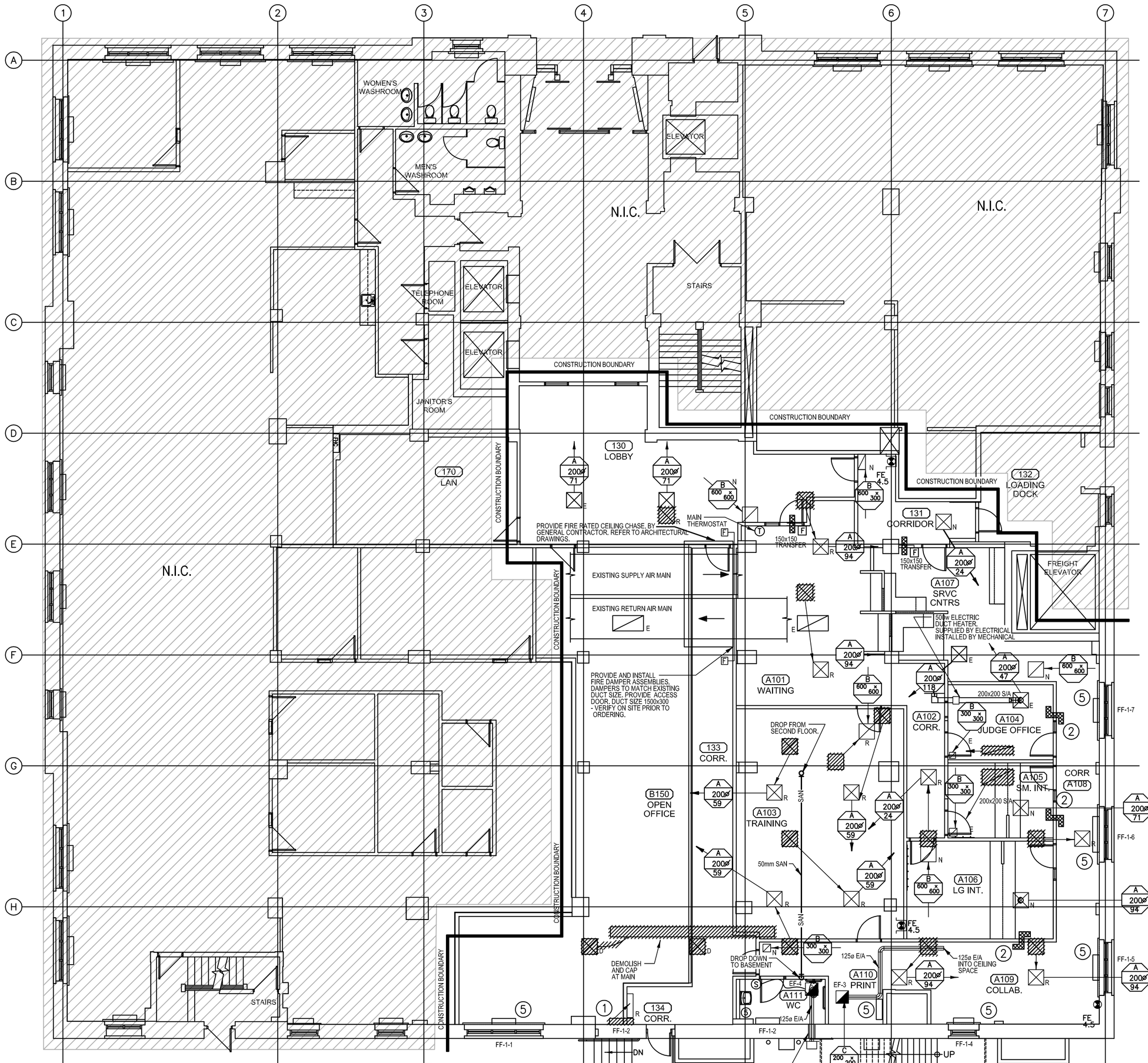
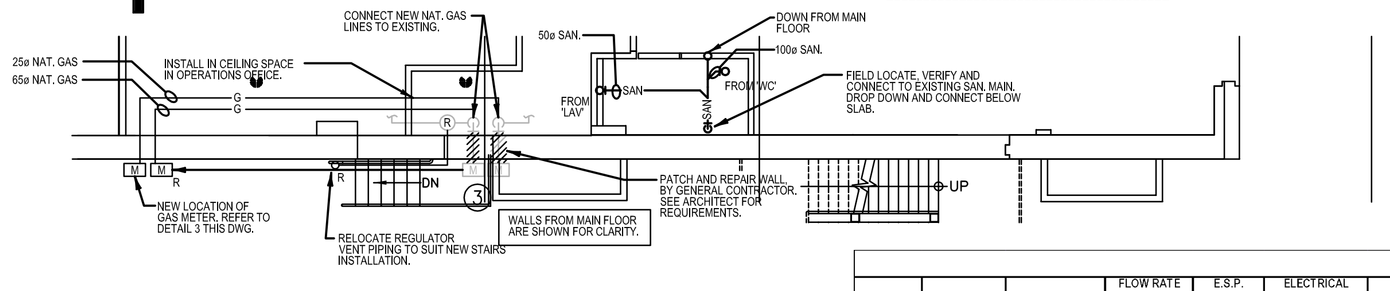


1 MAIN FLOOR HVAC PLAN
1:100



4 BASEMENT FLOOR PLAN
1:100

KEYNOTES:

1. RELOCATE EXISTING FORCE FLOW. PROVIDE NEW ISOLATION VALVES ON SUPPLY AND RETURN LINES.
2. TYPE 'I' CROSS TALK SILENCER TO BE INSTALLED IN CEILING SPACE. REFER TO DETAIL M2.2.
3. RELOCATE GAS LINES TO NEW GAS METER LOCATION.
4. SAN. TO DROP TO BASEMENT. FIELD LOCATE SAN. AND CONNECT IN BASEMENT.
5. EXISTING FORCE FLOWS TO REMAIN. MECH. CONTRACTOR TO REVIEW UNIT FOR CONDITION AND REPORT TO CONSULTANT. CLEAN FINS AND PIPING. PAINT OUTER COVER TO MATCH NEW WALL COLOR. PAINTING BY GENERAL CONTRACTOR.

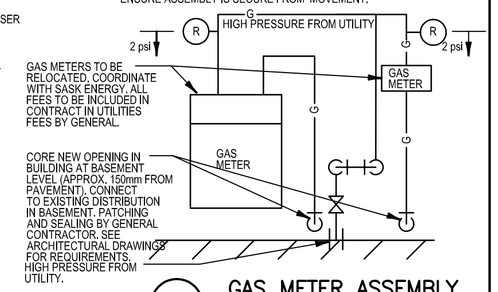
LEGEND

- SAN — SANITARY SEWER (ABOVE GRADE)
- SANITARY SEWER (BELOW GRADE)
- EXISTING WATER SERVICE
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- DHWR — DOMESTIC HOT WATER RECIRC
- HWS — HOT WATER HEATING SUPPLY
- HWR — HOT WATER HEATING RETURN
- G — EXISTING NATURAL GAS
- G — NATURAL GAS
- P-TRAP
- FD — FLOOR DRAIN - TYPE
- TAPS/FAUCETS
- FLEXIBLE DUCTWORK
- SUPPLY (S/A)/FRESH (F/A)/OUTSIDE (O/A) COMBUSTION (C/A) AIR DUCT
- RETURN AIR DUCT (R/A)
- EXHAUST AIR (E/A)/EXHAUST DISCHARGE (E/D) DUCT
- CIRCULAR DUCT OR FLUE VENT
- EXHAUST FAN
- T — THERMOSTAT
- TS — THEMPERATURE SENSOR (TO DDC)
- S — WALL SWITCH - ON/OFF (INSTALLED BY ELECTRICAL)
- F — FIRE DAMPER
- BD — BACKDRAFT DAMPER
- TYPE / SIZE / L/S — SUPPLY/RETURN AIR GRILLE/DIFFUSER INDICATES DIRECTION OF FLOW
- BALANCING DAMPER w/ QUADRANT POSITION LOCK
- Kg — PORTABLE TRI-CLASS (ABC) DRY CHEMICAL FIRE EXTINGUISHER WITH CABINET
- D — DEMOLISH BRANCH - REMOVE DIFFUSER BRANCH, SEAL FLAT ON MAIN.
- R — RELOCATE BRANCH - REPLACE DIFFUSER. RELOCATE BRANCH TO NEW LOCATION. PROVIDE NEW ROUND DUCT AS REQUIRED TO RELOCATE.
- N — NEW BRANCH AND DIFFUSER - FIELD LOCATE NEAREST MAIN FOR , SUPPLY. PROVIDE NEW BRANCH AS DETAILED (DWG M2.2).
- E — EXISTING BRANCH - REPLACE DIFFUSER / GRILLE, TO REMAIN IN CURRENT LOCATION.

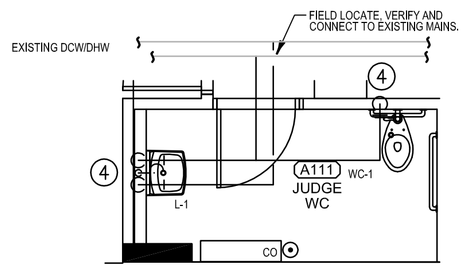
GENERAL NOTES:
- ALL OFFICES WITH FULL HEIGHT WALLS TO HAVE CROSS TALK SILENCERS.
- PROVIDE FIRE RATED PIPE PENETRATIONS AT ALL DEMISING WALLS.
- PROVIDE FIRE DAMPERS THROUGH ALL FIRE RATED WALLS AS SHOWN.
- PROVIDE AND REPLACE ALL EXISTING GRILLES AND DIFFUSERS.
- FOR NEW BRANCHES FIELD LOCATE AND CONNECT TO EXISTING MAINS. EXTENSION LENGTH NOT EXPECTED TO EXCEED 10FT. BRANCH TO EQUAL DIFFUSER NECK SIZE.

FIRE PROTECTION NOTES:
- PROVIDE AND INSTALL FIRE EXTINGUISHERS WITH CABINET AS SHOWN ON DRAWING.

PIPES TO BE SECURED TO WALL. PROVIDE ADEQUATE SUPPORT TO ENSURE ASSEMBLY IS SECURE FROM MOVEMENT.



3 GAS METER ASSEMBLY
N.T.S.



2 PARTIAL MAIN FLOOR PLUMBING PLAN
1:50

GRILLES, DIFFUSERS & LOUVERS

TYPE	DESCRIPTION
A	ADJUSTABLE STEEL 3 CONE SUPPLY AIR DIFFUSER FOR T-BAR INSTALLATION. TO COME COMPLETE WITH BALANCING DAMPER. COLOR: WHITE.
B	EGG CRATE FACE 1/2"x 1/2"x 1/2" RETURN/TRANSFER AIR GRILLE FOR T-BAR INSTALLATION. COLOR: WHITE.
C	EGG CRATE FACE 1/2"x 1/2"x 1/2" EXHAUST AIR GRILLE FOR SURFACE MOUNT INSTALLATION. COLOR: WHITE.

FAN SCHEDULE

UNIT NO.	LOCATION	SERVICE	FLOW RATE (L/s)	E.S.P. (in. W.C.)	ELECTRICAL (V/ph/HZ)	CONTROLS	REMARKS
EF-1	A213	KITCHEN	71	0.25	120-1-60	INTERLOCK WITH LIGHTING	CENTRIFUGAL CEILING FAN c/w GRILL. EXHAUST TO CEILING SPACE. EXHAUST TO OUTSIDE. PROVIDE HOOD c/w BBD.
EF-2	A206	COPY	71	0.25	120-1-60	INTERLOCK WITH LIGHTING	CENTRIFUGAL CEILING FAN c/w GRILL. EXHAUST TO CEILING SPACE. PROVIDE 10' DUCT FROM FAN EXHAUST.
EF-3	A110	COPY	40	0.25	120-1-60	INTERLOCK WITH LIGHTING	CENTRIFUGAL CEILING FAN c/w GRILL. EXHAUST TO CEILING SPACE. PROVIDE 10' DUCT FROM FAN EXHAUST.
EF-4	A111	STAFF W/C	40	0.25	120-1-60	WALL SWITCH WITH TIMER	CENTRIFUGAL CEILING FAN c/w GRILL. EXHAUST TO OUTSIDE WITH HOOD c/w BBD.

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Revision/ Revision	Description/Description	Date/Date
5		
4		
3		
2		
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0	ISSUED FOR TENDER	2018/03/16

Client/client

Immigration, Refugees and Citizenship Canada

Saskatoon
Saskatchewan

Project title/Titre du projet
Government of Canada Building
101 - 22 Street East

IRCC Relocation Fit-up
Saskatoon, Saskatchewan

Approved by/Approuve par: BD
Designed by/Concept par: RW
Drawn by/Dessine par: ML
PWGSC Project Manager/Administrateur de Projets TPSGC
PWGSC, Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie, TPSGC
Client/client

Drawing title/Titre du dessin

HVAC AND PLUMBING PLAN
MAIN FLOOR AND PARTIAL BASEMENT

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.076325.006	M2.1	0

PWGSC – A1 – 841X594

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