

NOTE:
ALL GRILLES SHALL BE COMPLETE WITH OWN INDEPENDENT VOLUMETRIC DAMPER TO ALLOW FOR AIRFLOW LISTED ON DRAWING

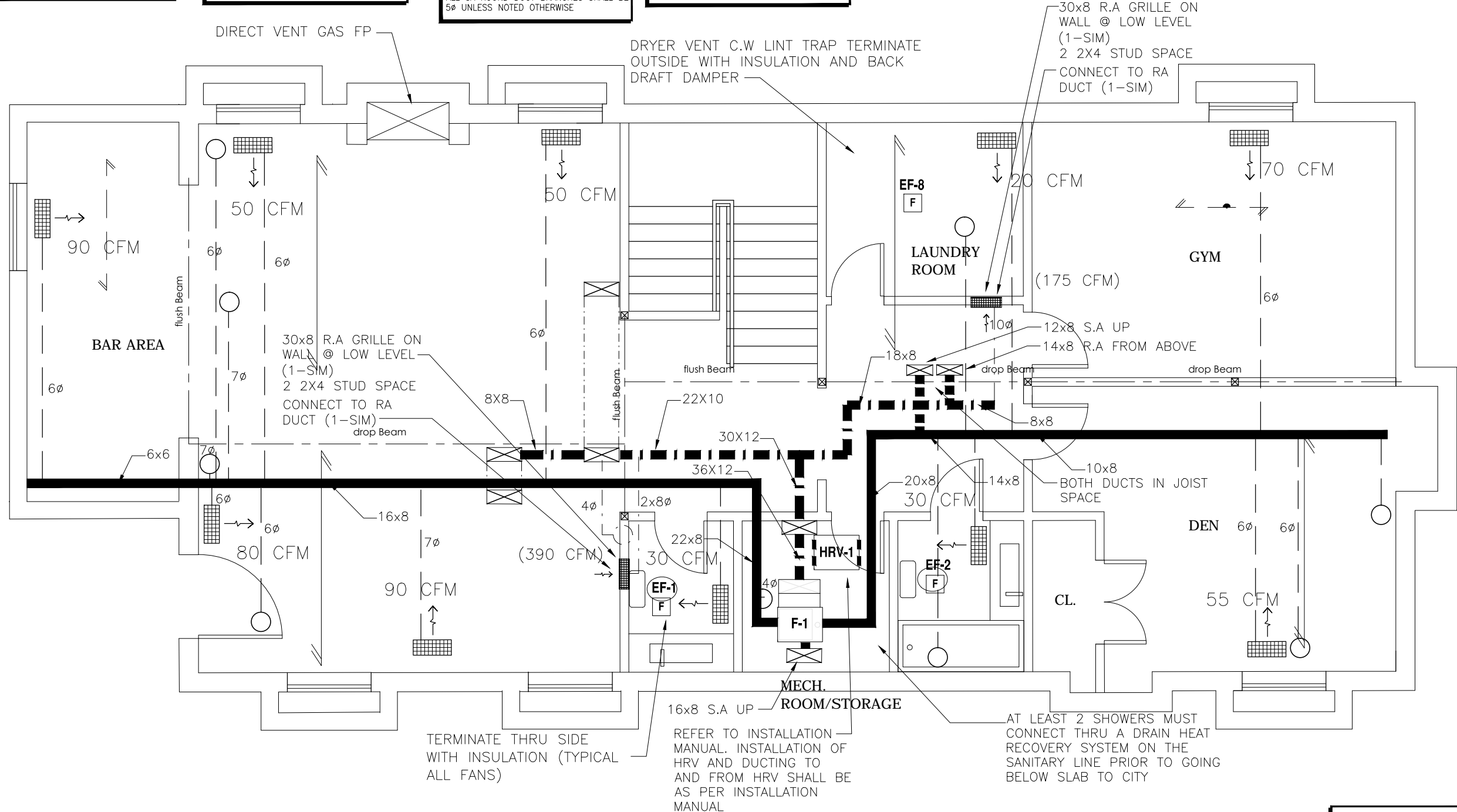
NOTE:
COORDINATE NEW HVAC LAYOUT WITH NEW AND EXISTING STRUCTURE. IF ANY INTERFERENCES OR CONCERNS CONTACT MECHANICAL OR STRUCTURAL ENGINEER PRIOR TO INSTALLATION OR ANY WORK

NOTE:
ALL SA ROUND DUCT BRANCHES SHALL BE 5" UNLESS NOTED OTHERWISE

NOTE:
ALL SUPPLY AIR MAIN DUCTS UP TO GROUND FLOOR (SERVING GRILLES ON 2ND FLOOR) SHALL HAVE BALANCING DAMPER AND NOTE ON DUCT SAYING SERVING 2ND FLOOR

NOTE:
CONFIRM ALL EXISTING ON SITE PRIOR TO STARTING ANY WORK. CONFIRM ANY DISCREPANCIES TO ENGINEER PRIOR TO STARTING

NOTE:
ALL HRV DUCTS SHALL BE 8" C/W INSULATION



NOTE:
SUPPLY AIR GRILLES IN UNFINISHED BASEMENT ROOMS SHALL BE AT HIGH LEVEL. SUPPLY AIR GRILLES IN FINISHED BASEMENT ROOMS SHALL BE AT LOW FLOOR LEVEL (UNLESS WHERE NOT FEASIBLE DUE TO CONSTRUCTION REASONS)

NOTE:
ALL DUCTS SHALL BE VERY TIGHTLY SEALED USING HIGH GRADE SEALANT MASTIC (FLAME SPREAD RATING OF MAX 25 AND SMOKE DEVELOPED RATING OF MAX 50)

NOTE:
ARCH. TO PROVIDE STUD SPACE AND ENCLOSURE AS NEEDED FOR DUCTWORK

NOTE:
STRUCTURAL ENGINEER AND/OR BEAM MANUFACTURER TO REVIEW ROUND DUCT SLEEVING THROUGH LVL BEAMS/JOIST. PROVIDE REINFORCEMENTS AS NEEDED

NOTE:
ALL DUCTWORK IN UNHEATED SPACE SHALL BE COMPLETE WITH INSULATION AND VAPOR BARRIER AND SEALED TIGHTLY TO PREVENT AND LEAKAGE INTO AND OUT OF DUCT. SEE OBC 6.2.4.3.(10) MIN R14

NOTE:
STRUCTURAL ENGINEER TO REVIEW DUCT SLEEVING THROUGH CONCRETE WALLS PRIOR TO SLEEVING. PROVIDE REINFORCEMENTS AS NEEDED

NOTE:
FURNACE AND AC UNIT SHALL BE INSTALLED WITH PROVISION FOR ACCESS FOR MAINTENANCE, REPAIR, AND CLEANING AS PER OBC 6.2.1.8; EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURE INSTALLATION GUIDELINES

GENERAL NOTES

- ALL DRAWINGS ARE THE PROPERTY OF THE ENGINEER AND THEY ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
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647-886-1345

TO	ISSUED	DATE
CITY	BUILDING PERMIT	DEC 17/17



THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNTIL SIGNED BY THE ENGINEER.

PROJECT:
PROPOSED 2 STOREY HOUSE
937 GOODWIN RD
MISSISSAUGA, ONTARIO

DESCRIPTION	
BASEMENT HVAC	
DRAWN A.N	PROJECT No. -
PLOTTED DATE DEC 17/17	DRAWING No. M1
SCALE 3/16" = 1'-0"	

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NOTE:
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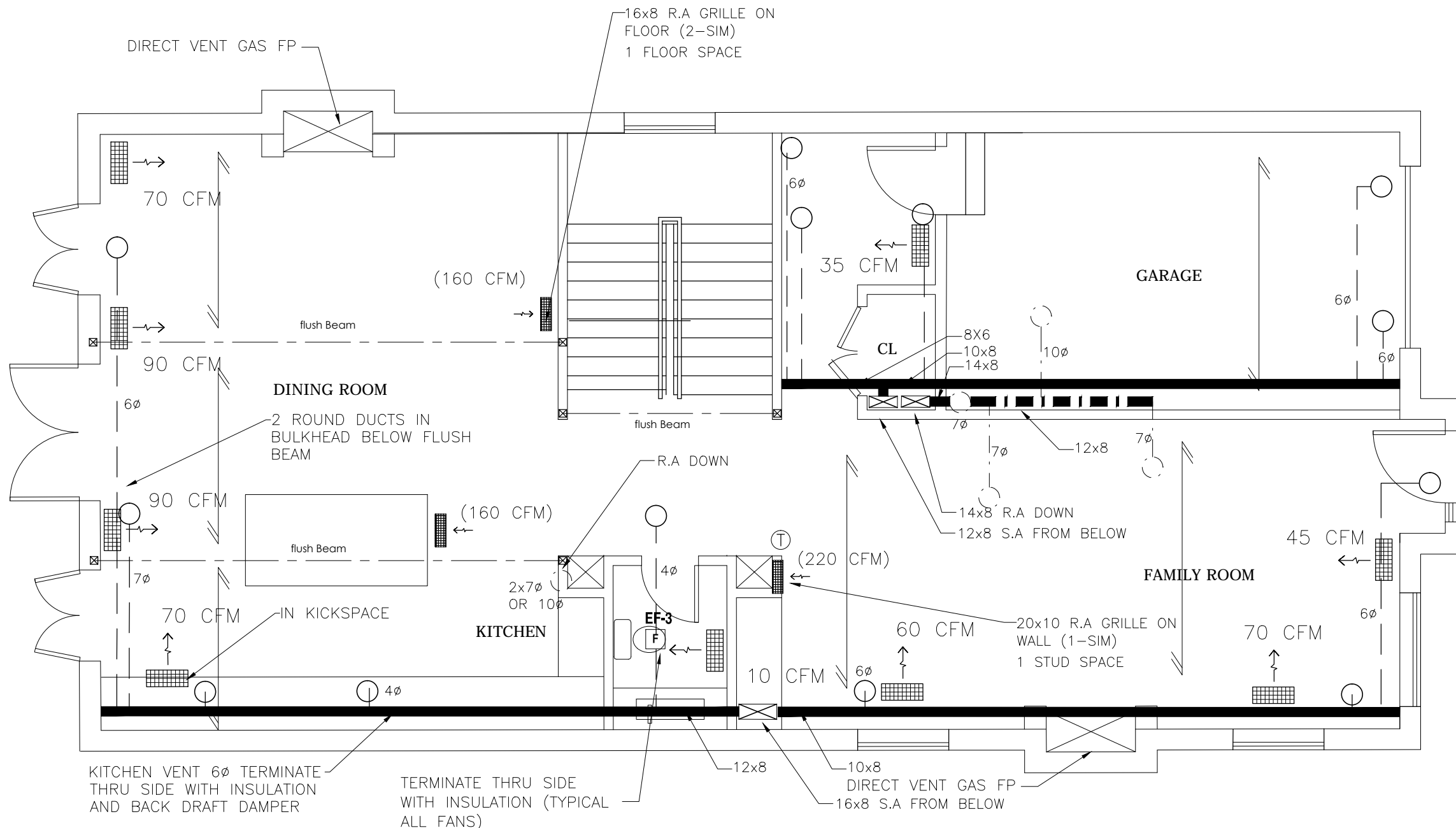
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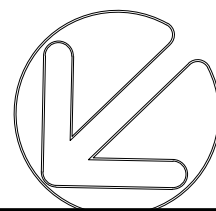


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TO	ISSUED	DATE
CITY	BUILDING PERMIT	DEC 17/17

LEGEND
NORTH



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PROJECT:
PROPOSED 2 STOREY HOUSE
937 GOODWIN RD
MISSISSAUGA, ONTARIO

DESCRIPTION
GROUND HVAC

DRAWN
A.N
PLOTTED DATE
DEC 17/17
SCALE
3/16" = 1'-0"

PROJECT No.
-
DRAWING No.
M2

NOTE:
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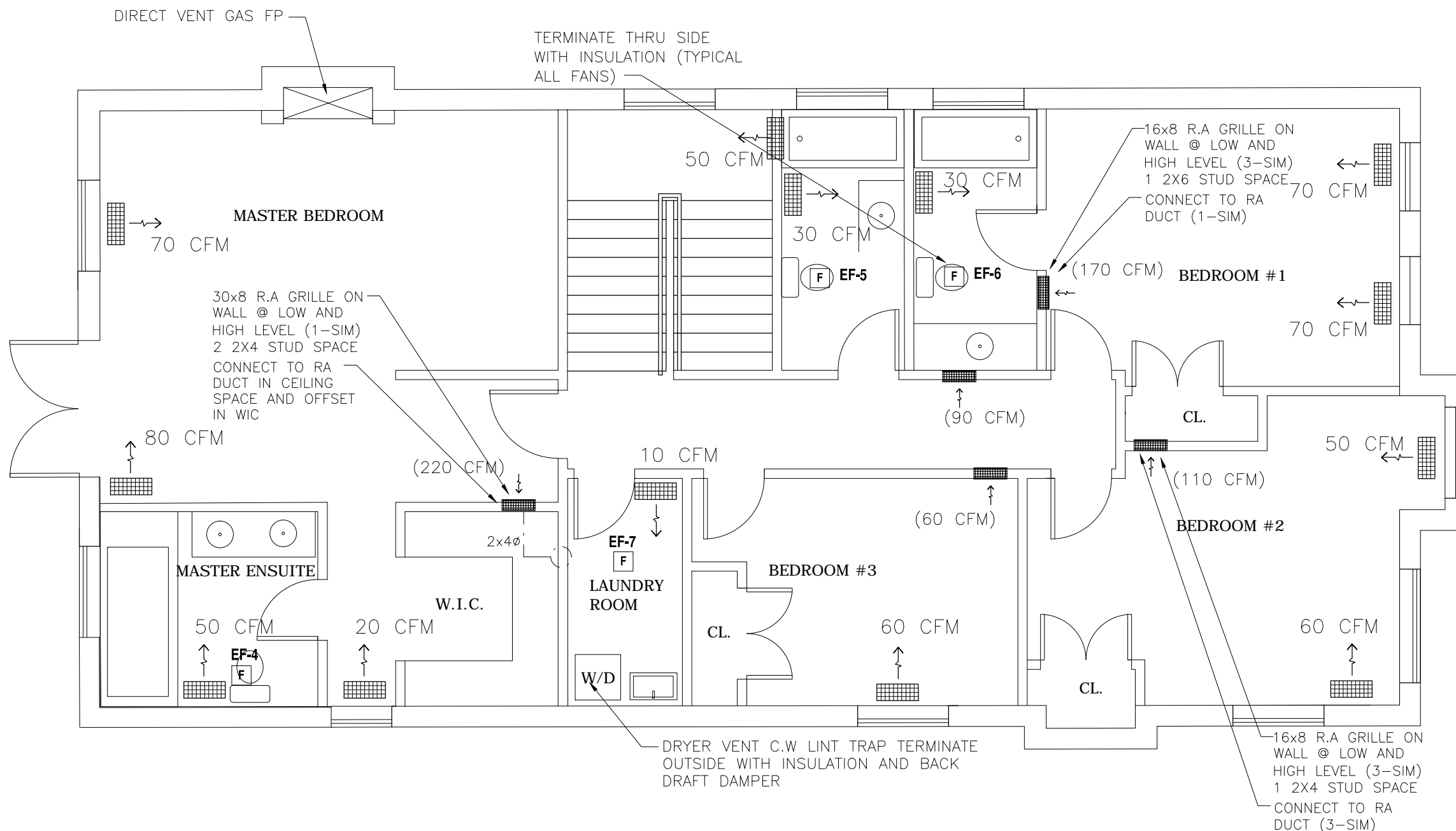
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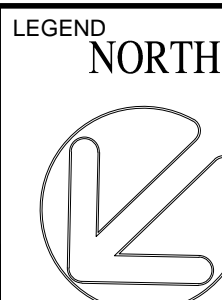
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PROJECT:
PROPOSED 2 STOREY HOUSE
937 GOODWIN RD
MISSISSAUGA, ONTARIO

DESCRIPTION
SECOND HVAC

DRAWN
A.N

PLOTTED DATE
DEC 17/17

SCALE
3/16" = 1'-0"

PROJECT No.
-

DRAWING No.
M3

HVAC CONTRACTOR TO CONFIRM ACTUAL OUTPUT OF CFM USING REAL FLOW SITE TEST

FURNACE SCHEDULE (NEW)						
No.	MAKE	MODEL	HEATING OUTPUT (BTU/HR)	ELEC	ELEC.	CFM @ SP
F-1	RHEEM	R96VA0852521(96% VARIABLE SPEED)	80,640 (HIGH) 54,000 (LOW)	ECM MOTOR	120/60/1	1360CFM @ .50 MAX 55F RISE COOL=1755CFM

AC UNIT SCHEDULE (NEW)							
No.	MAKE	MODEL	COOLING (BTU/HR)	COOLING (TONS)	SEER	MCA	ELEC.
AC-1	RHEEM	- 2-STAGE W/SCROLL	48,000	4.0	UP TO 16.5	-	230/1/60

FAN SCHEDULE (NEW)						
No.	MAKE	MODEL	AIR FLOW (CFM)	PRESSURE (IN WG.)	ELEC.	SONES
EF-7 EF-1 EF-3 EF-8	BROAN	L100	55	0.32	120/1/60	2.1
EF-2 EF-4 EF-5 EF-6	BROAN	L150	110	0.32	120/1/60	2.1

NOTE:
ALL ROUND DUCTWORK ON TO RUN BETWEEN/PARALLEL TO JOIST/BEAM. ALL SLEEVES (IF NECESSARY) THRU STRUCTURE SHALL BE REVIEWED & APPROVED BY STRUCTURAL ENGINEER

NOTE:
ALL ROUND DUCTWORK IN WALLS/CEILING/STUD SPACE THAT ARE EXPOSED TO UNHEATED SPACE SHALL BE INSULATED AND HAVE VAPOR BARRIER

INSULATION VALUES			
ITEM	VALUE	ITEM	VALUE
BELOW GRADE WALL	MIN. R20ci		
ABOVE GRADE WALL	MIN. R22		
ROOF	MIN. R60		
WINDOW	MAX 0.25		
WINDOW SHADING CX	MAX 0.45		

NOTE:
CONTRACTOR AND CLIENT AND ARCHITECT TO CONFIRM ALL NUMBERS LISTED ABOVE. IF NUMBERS ARE NOT AS PER ABOVE CONTACT ENGINEER AND ARCHITECT. REFER TO EEDS FORM AND ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

NOTE:
SUPPLY AIR GRILLES IN UNFINISHED BASEMENT ROOMS SHALL BE AT HIGH LEVEL. SUPPLY AIR GRILLES IN FINISHED BASEMENT ROOMS SHALL BE AT LOW FLOOR LEVEL (UNLESS WHERE NOT FEASIBLE)

NOTE:
CONTRACTOR/BUILDER TO FURR OUT WALL AS NEEDED TO ACCOMMODATE SUPPLY AND RETURN AIR DUCTS RUNS AND MAINS

NOTE:
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NOTE:
ALL DUCTS SHOULD BE RIGID METAL DUCTWORK. ONLY LAST 6 FEET OF DUCT MAYBE FLEXDUCT TO BOOT OF GRILLE

- NOTES**
- DRAWINGS NOT TO BE SCALED FOR CONSTRUCTION USE. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS
 - ALL EXISTING DUCTWORK/GRILLES (IF APPLICABLE) TO REMAIN EXCEPT WHERE NOTED AND SHOWN ON THE DRAWINGS. PRIOR TO TURN-OVER ENSURE ALL EXISTING DUCTWORK AND GRILLES ARE MADE GOOD AND IN WORKING CONDITION
 - ALL CONSTRUCTION TO BE DONE ACCORDING TO LATEST ONTARIO BUILDING CODE, LAWS AND BY-LAWS OF ONTARIO, ASHRAE STANDARDS/HANDBOOKS, AND SMACNA MANUALS. CONTRACTOR TO BE WELL VERSED IN THE ABOVE PRIOR TO CONSTRUCTION/RENOVATION OF MECHANICAL
 - REPORT ALL DISCREPANCIES AND OMISSIONS TO ENGINEER PRIOR TO CONSTRUCTION. ENGINEER NOT RESPONSIBLE FOR ANY REASONABLE DISCREPANCY AND/OR OMISSION NOT CORRESPONDING TO THE ENGINEER
 - PROVIDE (1 1/4") SUFFICIENT UNDERCUT IN ALL INTERIOR DOORS TO ALLOW FOR PROPER AIRFLOW AND TO ALLOW FOR RETURN AIR TO BE CIRCULATED BACK TO RETURN AIR GRILLE
 - PROVIDE ENGINEER WITH EQUIPMENT (ALTERNATIVES ALLOWED) SHOP DRAWINGS PRIOR TO PURCHASING AND INSTALLING THE EQUIPMENT. ONLY APPROVED SHOP DRAWINGS SHALL BE USED IN CONSTRUCTION
 - ALL DRAWINGS AND SPECIFICATIONS TO BE RETURNED TO ENGINEER AFTER COMPLETION OF PROJECT. CONTRACTOR ALSO TO KEEP AS BUILT SET AND ONCE COMPLETED TO BE GIVEN TO THE ENGINEER FOR RECORD AND REVIEW
 - CONTRACTOR TO CALL OR EMAIL ENGINEER IF ANY CLARIFICATION OR DOUBTS ARISE PRIOR TO OR DURING CONSTRUCTION. ENGINEER IS NOT RESPONSIBLE FOR ANY WORK DONE UNDER AN ASSUMPTION OR DONE INCORRECTLY
 - ALL ARCH. AND STRUCTURAL ARE NOT A PART OF THIS DRAWING. REFER TO RESPECTIVE DRAWINGS FOR INFORMATION
 - ONLY NEW OR MODIFIED PLUMBING/DRAINAGE ARE SHOWN ON THESE PLANS. EVERYTHING ELSE TO REMAIN SAME AND NOT TO BE TOUCHED AS A PART OF THIS PERMIT SUBMISSION
 - ALL WATER, VENT AND SANITARY PIPING SHALL CONFORM TO OBC AND LOCAL BUILDING GUIDELINES. CONFIRM WITH CODES AND STANDARDS PRIOR TO INSTALLATION
 - WATER PIPING MATERIAL SHALL BE TYPE L COPPER. SANITARY PIPING MATERIAL SHALL BE DWV COPPER AND VENT PIPING MATERIAL SHALL BE DWV COPPER
 - CONTRACTOR TO VISIT SITE AS NECESSARY TO PROVIDE A PROPER TENDER PRICE. CONTRACTOR TO GIVE A PRICE THAT WILL ENSURE THE PROJECT IS DONE COMPLETELY WITH ALL CODES AND STANDARDS ADHERED TO. CONTRACTORS WILL NOT BE GIVEN EXTRA UNLESS AUTHORIZED WRITTEN LETTER IS PROVIDED TO ENGINEER AND CLIENT FOR REVIEW
 - DRAWINGS DO NOT SHOW INSTALLATION DETAIL AND DO NOT SHOW ALL MATERIALS REQUIRED TO COMPLETE THE PROJECT. CONTRACTOR TO PROVIDE ALL NECESSARY EQUIPMENT AND MATERIAL TO COMPLETE THE PROJECT TO MEET ALL CODES AND STANDARDS AND TO MEET THE GENERAL DESIGN INTENT OF MECHANICAL DRAWINGS. CONTRACTOR TO INCLUDE ALL OF THE ABOVE IN THE TENDER PRICE
 - UPON REVIEW AND ACCEPTANCE OF AS BUILT DRAWINGS BY THE BEGINNER CONTRACTOR TO PROVIDE 1 YEAR GUARANTEE IN WRITING OF ALL EQUIPMENT TO CLIENT FOR RECORD. CONTRACTOR TO ALSO PROVIDE AT LEAST 6 MONTHS OF WORKMANSHIP GUARANTEE TO CLIENT SHALL ANYTHING GO WRONG IN THIS PERIOD
 - ONLY CONTRACTORS THAT ARE LICENSED AND HAVE LIABILITY INSURANCE SHALL BE USED FOR INSTALLATION OF THE MECHANICAL EQUIPMENT AND MATERIAL. ENGINEER IS NOT RESPONSIBLE FOR ANY WORK DONE BY A NON LICENSED AND NON INSURED CONTRACTOR
 - MECHANICAL WORK SHALL BE DONE IN COORDINATION WITH ALL OTHER SUB TRADES. CONTRACTOR TO ENSURE THAT AFTER EACH DAY'S WORK IS DONE, SITE IS LEFT IN A CLEAN AND SAFE MANNER. UPON COMPLETION OF PROJECT ALL WORK SHALL BE LEFT IN A SAFE AND PROPER MANNER SO THAT ALL CONTRACTORS AND CLIENT ARE LEFT WITH A GOOD IMPRESSION OF THE WORK DONE
 - WALLS, WINDOWS, DOORS OR ANYTHING RELATED TO ARCHITECTURAL OR STRUCTURAL ARE NOT ACCURATE ON THIS SUBMISSION AND ARE NOT SCALABLE. REFER TO ARCH. DRAWING
 - WORK SHALL NOT START UNTIL CITY HAS APPROVED A MECHANICAL PERMIT AND COMMENTS FROM CITY ARE SHOWN ON DRAWINGS BY THE ENGINEER (IF APPLICABLE)
 - ALL NEW FIXTURES SHALL BE INSTALLED AS PER OWNER'S MANUAL AND INSTALLATION MANUAL AND BE SPECIFIED BY THE OWNER
 - ALL EXISTING PLUMBING AND DRAINAGE SHALL BE MADE GOOD PRIOR TO RETURNING BACK TO CLIENT AND ANY EXISTING CONNECTIONS THAT WERE MADE

HRV SCHEDULE (NEW)						
No.	MAKE	MODEL	MIN/MAX AIRFLOW (CFM)	MAX SONES	AMPS	ELEC.
HRV-1	LENNOX	HRV3-200 75% EFFICIENT	90 CFM 192 CFM	2.0	1.5	120/1/60

COMPLETE WITH INTAKE AND EXHAUST WEATHERHOOD WITH BIRD SCREEN, AND LIFESTYLE DEHUMIDIST HRV DUCT TO R.A PLENUM C/W FREEZE STAT. HRV FRESH AIR INTAKE DUCT C/W ELECTRONIC HEATER HRV TO RUN ON CONTINUOUS SPEED AT ALL OCCUPIED TIMES

NOTE:
CONTRACTOR TO COMPLETE AIR BALANCING AT END OF PROJECT TO ENSURE THE LISTED CFM PER GRILLE ARE ACHIEVED BY OPENING OR CLOSING DAMPERS IN OTHER AREA OF HOMES AS REQUIRED

NOTE:
CONTRACTOR TO INSTALL DAMPERS ON ALL GRILLES/MAIN DUCT RUNS/DUCT BRANCHES/FURNACE CONNECTIONS TO ENSURE AIR BALANCING IS ACHIEVED TO LISTED CFM PER GRILLE

LEGEND

- Ⓢ PROGRAMMABLE THERMOSTAT
- S.A SUPPLY AIR
- R.A RETURN AIR

NOTE:
HRV INTAKE AND EXHAUST LOUVERS SHALL BE COORDINATED ON SITE WITH FURNACE INTAKE AND EXHAUST FLUE TO ENSURE OBC, ASHRAE AND MANUFACTURER MINIMUM SEPARATION DISTANCES ARE ACHIEVED

NOTE:
CONFIRM EXACT LOCATION OF FURNACE, AC UNIT ON SITE PRIOR TO CONDUCTING ANY MECHANICAL WORK

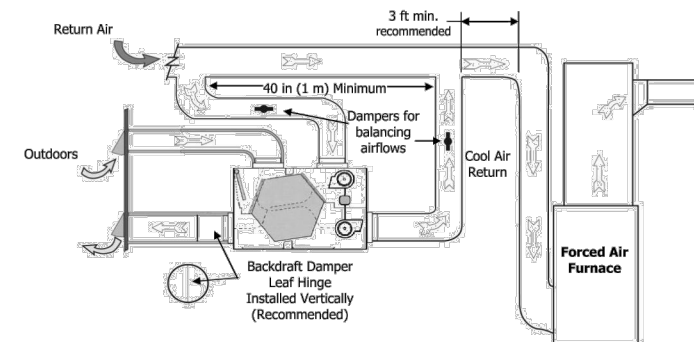
NOTE:
RETURN AIR FOR GROUND AND 2ND FLOOR TO BE IN JOIST AND STUD SPACE. COORDINATE WITH ARCH/STRUCTURAL DRAWINGS. RETURN AIR TO BE AS PER OBC 6.2.4.7 C/W THERMOPAN INSTALLATION

ROUND DUCT SCHEDULE AND NOTES:
KITCHEN EXHAUST = 6" WITH 1" INSULATION
BATHROOM EXHAUST = 5" WITH 1" INSULATION
PRINCIPAL EXHAUST = 6" WITH 1" INSULATION

ALL DUCTS IN UNHEATED SOFFIT/ROOF/WALLS TO HAVE INSULATION AND VAPOUR BARRIER

NOTES:
ALL INTERIOR DOORS TO HAVE 1 1/4" UNDERCUT TO ALLOW FOR AIRFLOW BACK TO MAIN RETURN AIR GRILLE

NOTES:
ALL ROUND DUCTWORK TO BE IN JOIST SPACE UNLESS NOTED OTHERWISE ON PLAN. ALL DUCTWORK IN UNHEATED SPACE (GARAGE, ETC) SHALL BE COMPLETE INSULATION AND VAPOUR BARRIER



HRV SCHEMATIC. REFER TO INSTALLATION MANUAL

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CITY	BUILDING PERMIT	DEC 17/17	

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PROJECT:
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937 GOODWIN RD
MISSISSAUGA, ONTARIO

DESCRIPTION
HVAC NOTES AND SCHEDULES

DRAWN A.N	PROJECT No.
PLOTTED DATE DEC 17/17	DRAWING No.
SCALE NOT TO SCALE	M4