

MECHANICAL LEGEND

PIPE DOWN FROM LEVEL ABOVE / DOWN TO LEVEL BELOW

PIPE UP FROM LEVEL BELOW / UP TO LEVEL ABOVE

VENT UP FROM LEVEL BELOW / UP TO LEVEL ABOVE / UP TO CAP

FLOW DIRECTION

ELBOW RISING

TOP TAKEOFF / BOTTOM TAKEOFF

SIDE TEE

ELBOW DROPPING

SHUTOFF VALVE

SHUTOFF VALVE VERTICAL MOUNT

FLOW BALANCING VALVE

CHECK VALVE

PLUG VALVE

2-WAY CONTROL VALVE

3-WAY CONTROL VALVE

MECHANICAL PRESSURE REDUCING VALVE

LOCKING VALVE

SOLENOID VALVE

RELIEF VALVE

UNION OR FLANGE

FLEXIBLE CONNECTION

AUTOMATIC AIR VENT

STRAINER

CAP OR PLUG

PUMP

NEW THERMOSTAT / THERMOSTAT C/W GUARD / HUMIDISTAT

FIRE EXTINGUISHER C/W CABINET (TYPE NOTED)

FIRE HOSE CABINET

SIAMESE CONNECTION

FIRE PROTECTION SUPPLY

SPRINKLER SUPPLY

SPRINKLER HEAD-UPRIGHT

SPRINKLER HEAD-PENDENT

SPRINKLER HEAD-SIDEWALL

SPRINKLER HEAD-FLUSH MOUNTED

INDIRECT DRAIN

DOMESTIC COLD WATER

DOMESTIC HOT WATER

DOMESTIC HOT WATER REDIRC.

SANITARY DRAIN

STORM DRAIN

VENT PIPE

GAS-LOW PRESSURE

CLEANOUT / FLOOR CLEANOUT

HOSE BIBB / COMPRESSED AIR OUTLET

FLOOR DRAIN (PLAN) / FLOOR DRAIN (SCHEMATIC)

HUB DRAIN / ROOF DRAIN

PLUMBING FIXTURE (TYPE NOTED)

REDUCED PRESSURE BACKFLOW ASSEMBLY

SANITARY VENT CAP

RUNNING TRAP

P-TRAP

FIRE HYDRANT

MANHOLE

CATCH BASIN

HALF GRATE CATCH BASIN

SPLASH PAD

SUPPLY DUCT (UP & DOWN)

RETURN DUCT (UP & DOWN)

EXHAUST (UP & DOWN)

OUTDOOR AIR (UP & DOWN)

ROUND DUCT (UP & DOWN)

FLEXIBLE DUCT CONNECTION

BALANCING DAMPER

OPPOSED BLADE DAMPERS

MOTORIZED DAMPER

SUPPLY OUTLET

SQUARE DIFFUSER / ROUND DIFFUSER

FIRE DAMPER OR SMOKE DAMPER

TURNING VANES

ACOUSTIC LINED DUCTWORK

ACCESS DOOR

AIR OUTLET OR INLET

RADIANT PANEL

ELEVATION MARKER

SCHEDULE FOR NATURAL GAS UTILITY

EQUIPMENT	INPUT (MBH)	MINIMUM DISTANCE BETWEEN GAS LINE AND UNDERGROUND SERVICES - 2000mm
AS-1	150	
AS-2	150	
AS-3	150	
AS-4	250	
AS-5	150	
AS-6	250	
AS-7	150	
AS-8	250	
DHW-HTR	150	
TOTAL	1,650	

PRIOR TO COMMENCING INSTALLATION WITHIN THE BUILDING, VERIFY THE LOCATION AND INVERT ELEVATIONS OF SERVICE LINES INCLUDING SANITARY SEWER, STORM SEWER, WATER MAINS, AND GAS MAINS WITH AUTHORITIES HAVING JURISDICTION TO ENSURE SERVICES CAN BE INSTALLED AS SHOWN.

kasian

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www.kasian.com

2014-05-23	RE-ISSUED FOR BUILDING PERMIT AND ISSUED FOR CONSTRUCTION	HEI
2013-09-13	BUILDING PERMIT	
2013-08-16	75% COORDINATION	
2013-08-07	50% COORDINATION	
2013-09-13	ISSUED FOR PERMIT	HEI
REV. YYYY-MM-DD	REVISION / DRAWING ISSUE	REVIEW

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PROJECT

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9625 102A AVE, EDMONTON, ALBERTA, CANADA

DRAWING TITLE

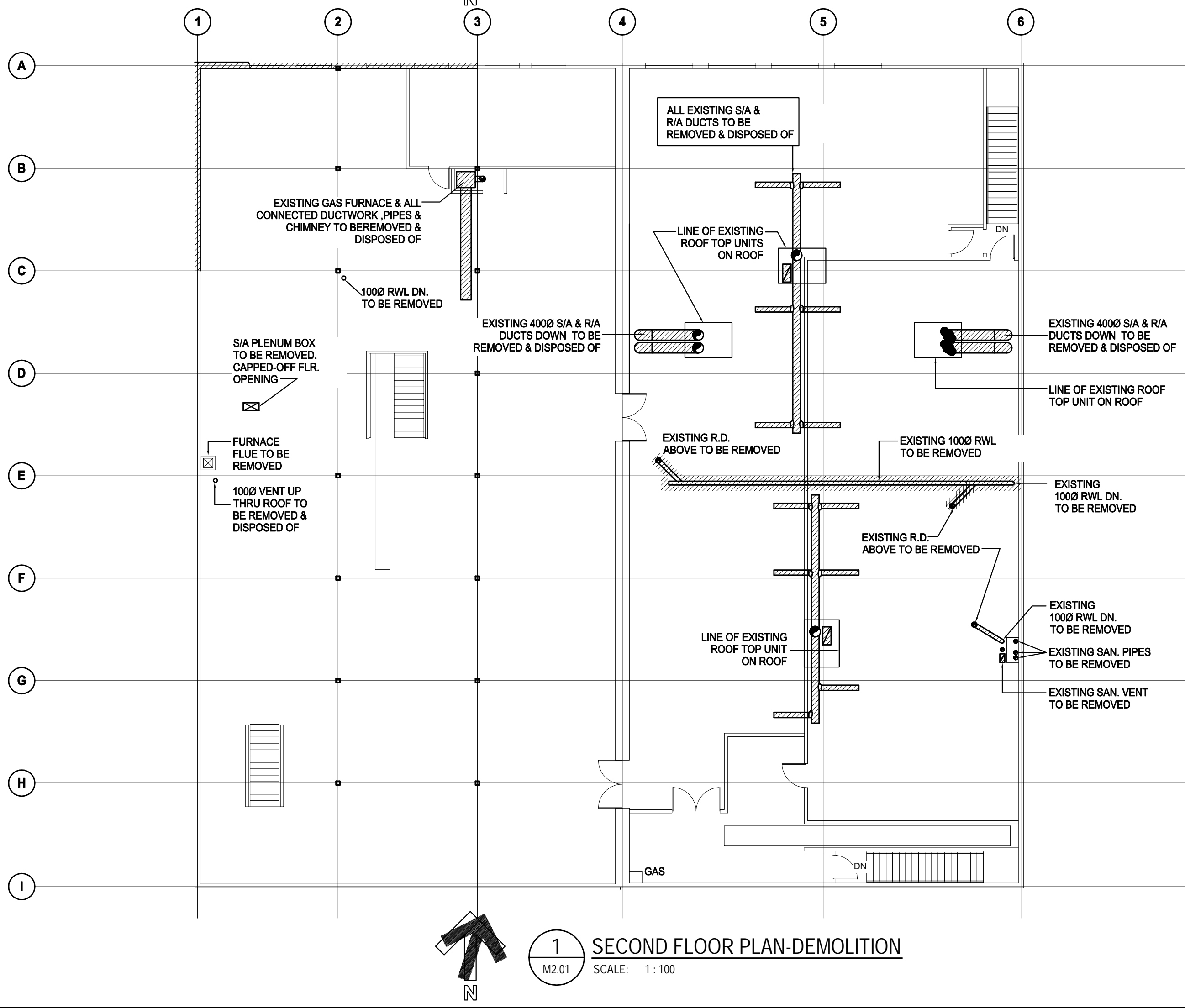
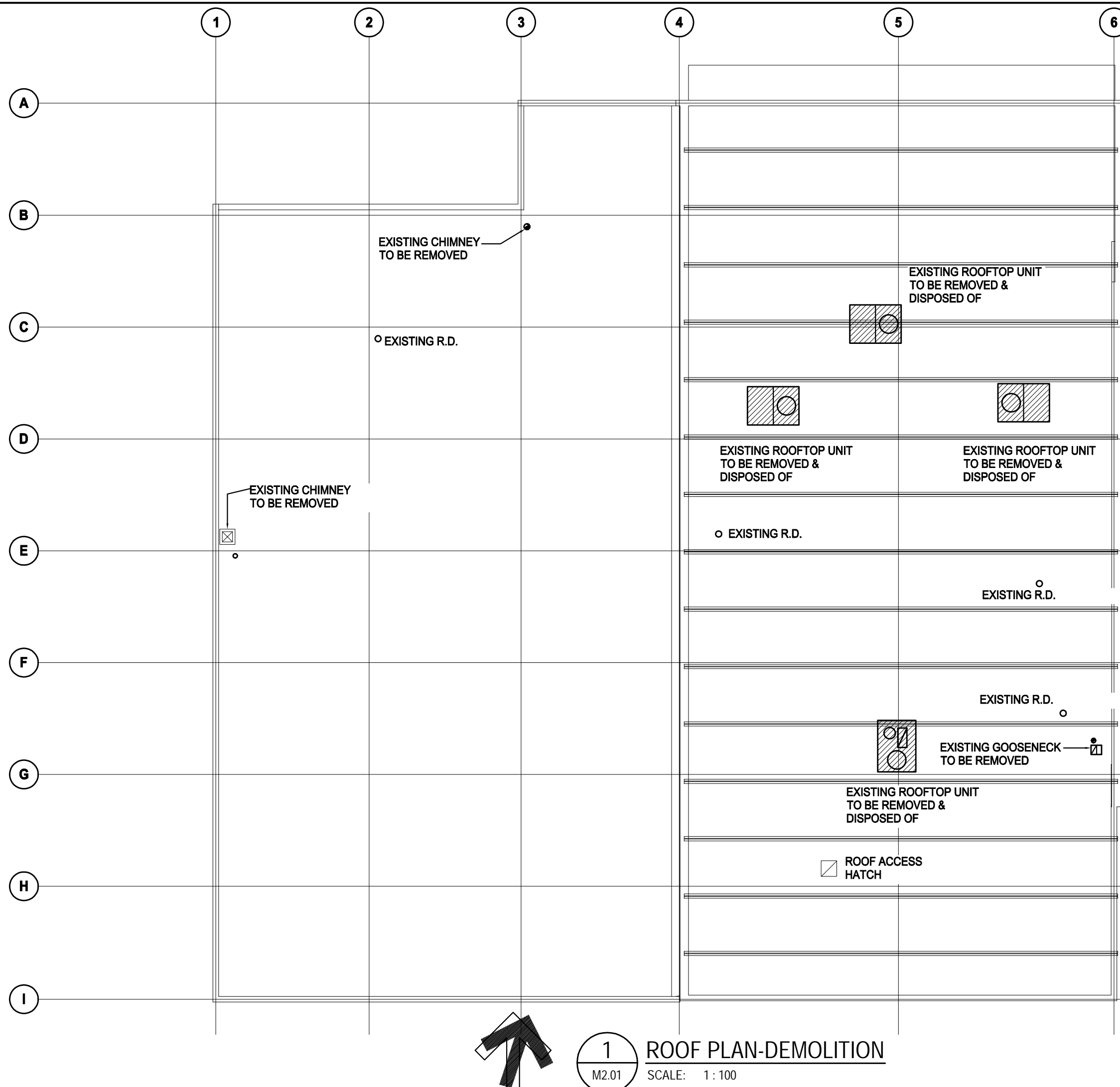
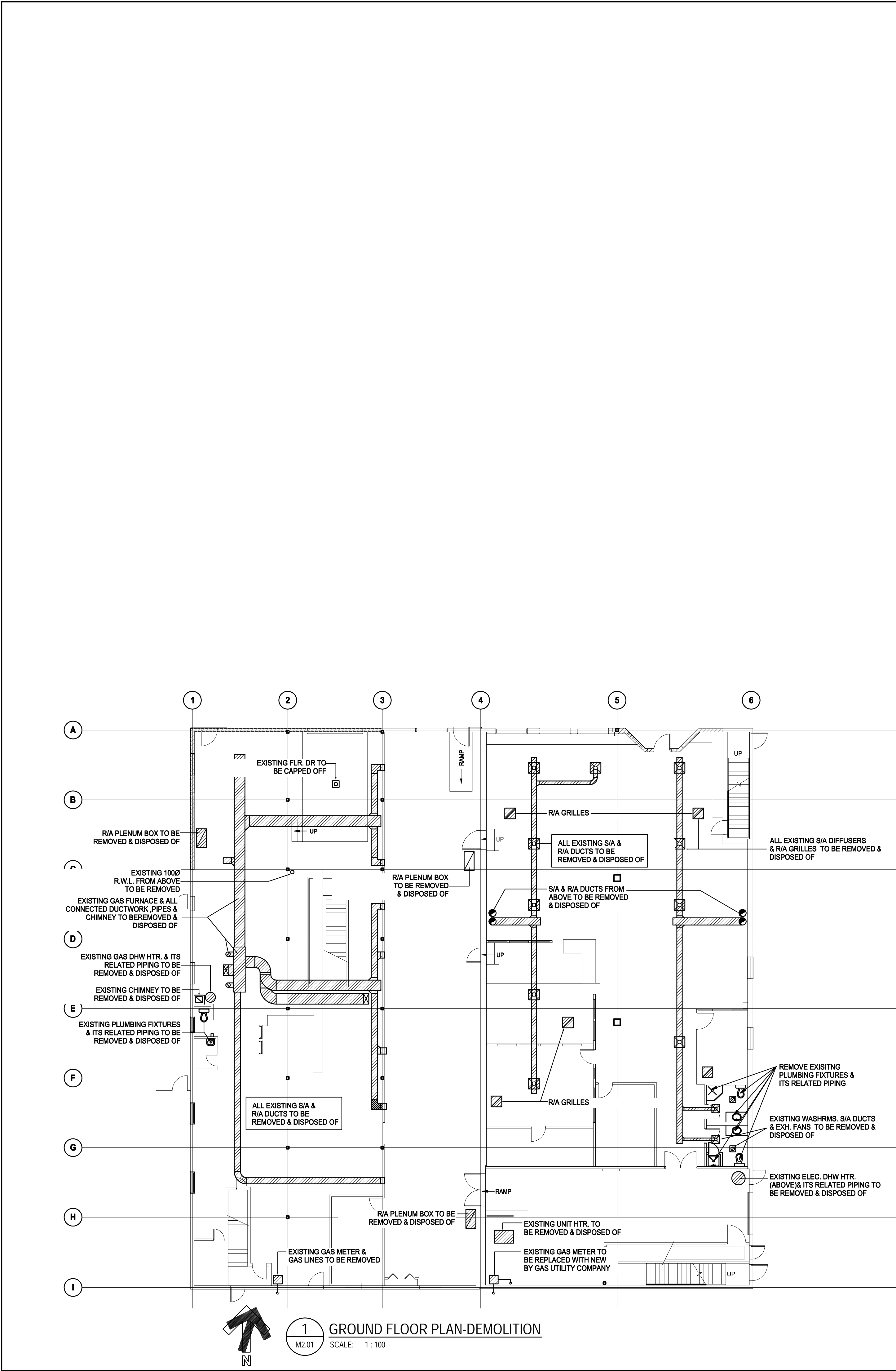
MECHANICAL SITE PLAN AND LEGEND


DRAWING ISSUE

ISSUED FOR PERMIT/
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MAY 23, 2014

PROJECT NO.	PLOT DATE	2014-05-	DRAWN	RZ
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				0

M1.01





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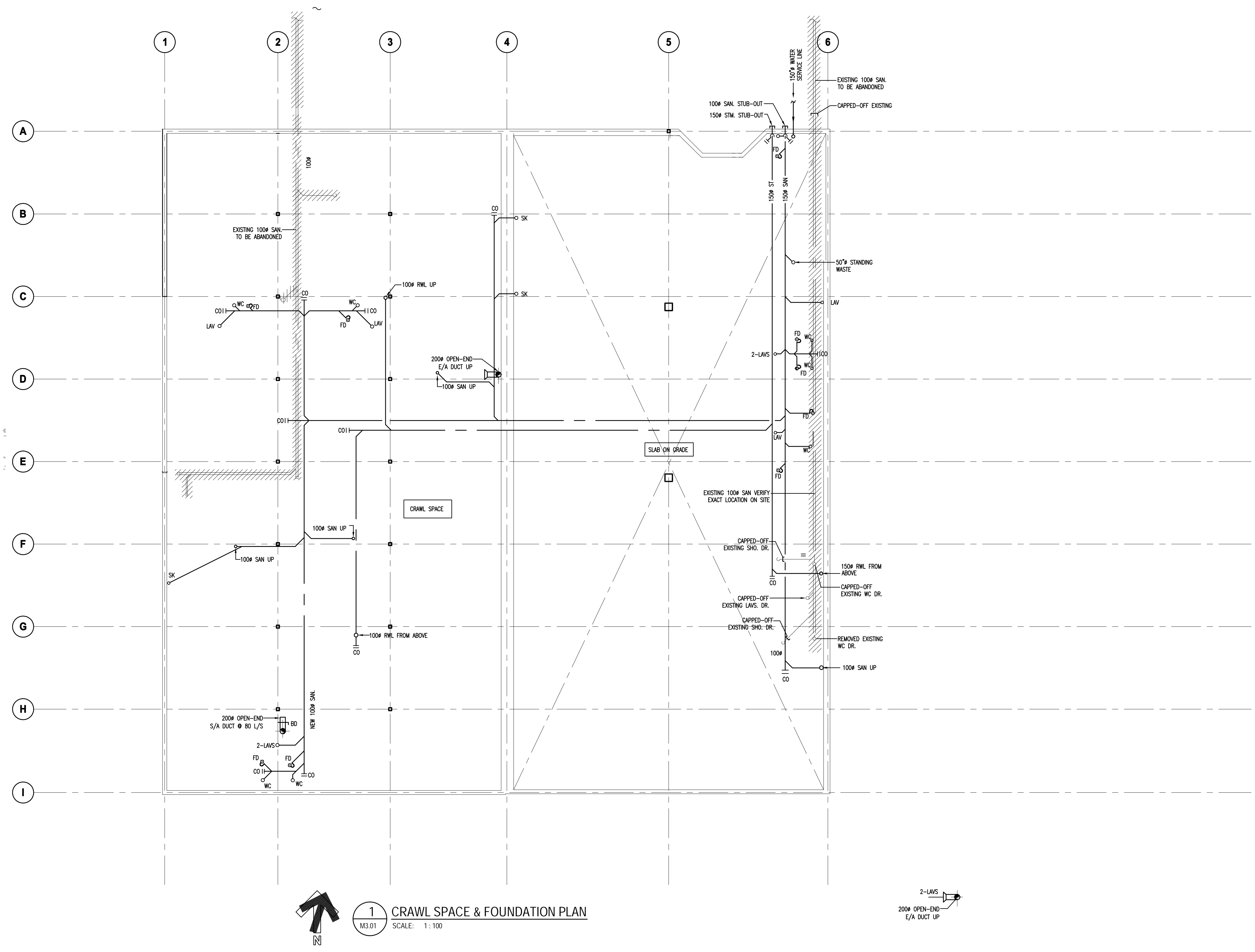
**GROUND FLOOR, 2ND FLOOR
& ROOF PLAN DEMOLITION**

DRAWING ISSUE

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PROJECT NO.	PLOT DATE	DRAWN	RZ
E13053	2014-05-		
	SCALE	REVIEWED	DJ
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M2.01



1
M3.01
CRAWL SPACE & FOUNDATION PLAN
SCALE: 1:100



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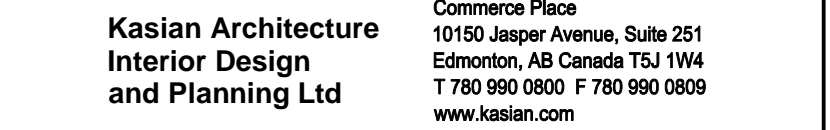
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DRAWING TITLE
CRAWL SPACE & FOUNDATION PLAN

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MAY 23, 2014**

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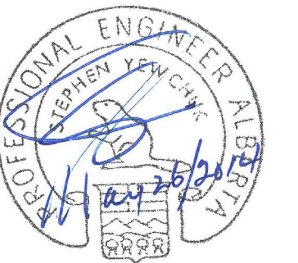
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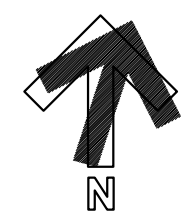
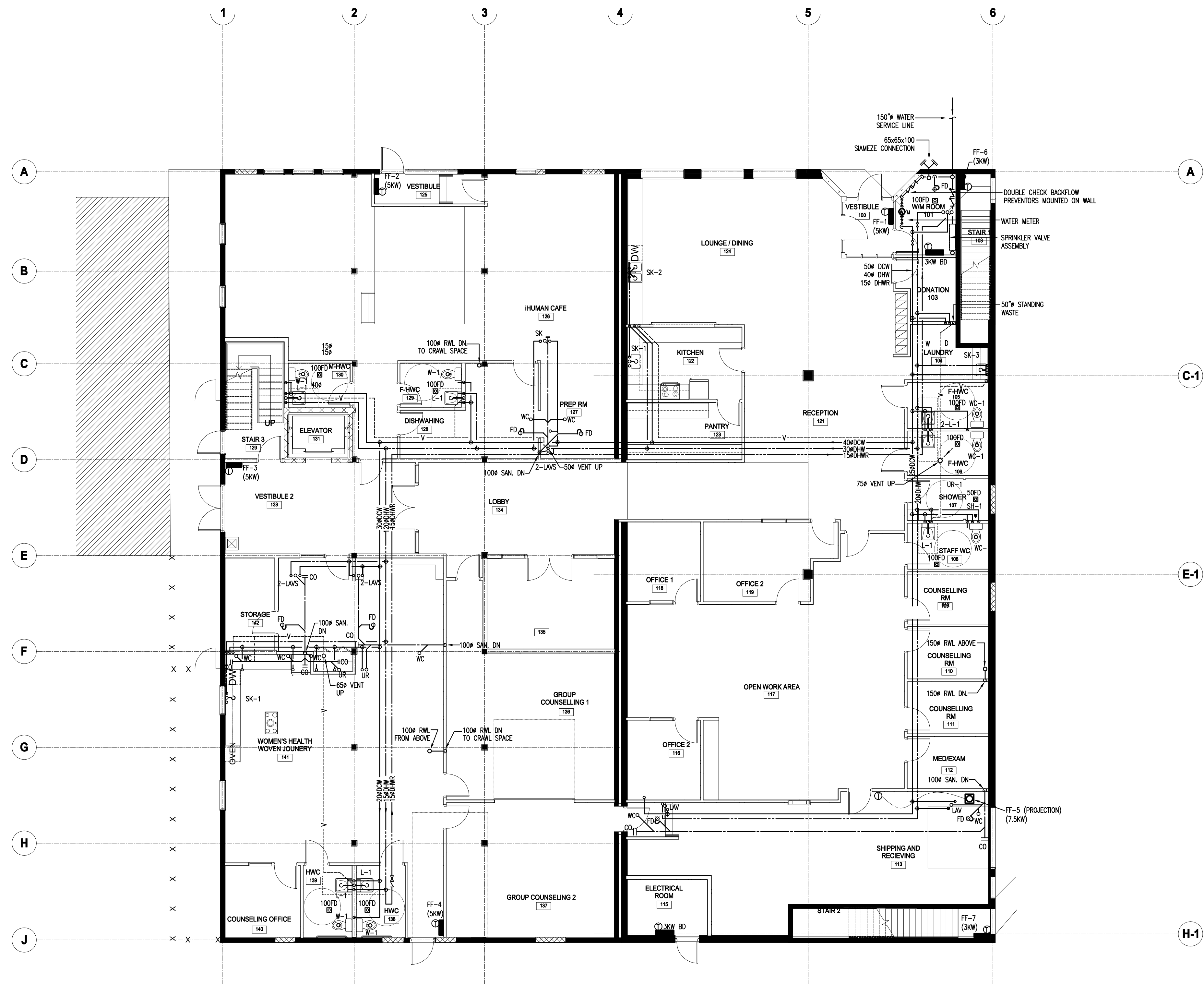
GROUND FLOOR
PLUMBING

DRAWING ISSUE

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MAY 23, 2014

PROJECT NO.	PLOT DATE	DRAWN
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	AS SHOWN	OK

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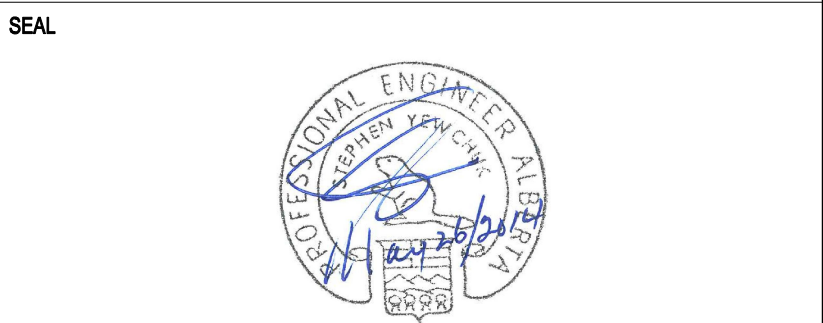
1 GROUND FLOOR PLAN-PLUMBING
M3.01 SCALE: 1 : 100

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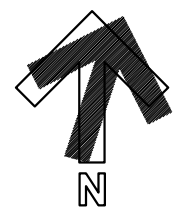
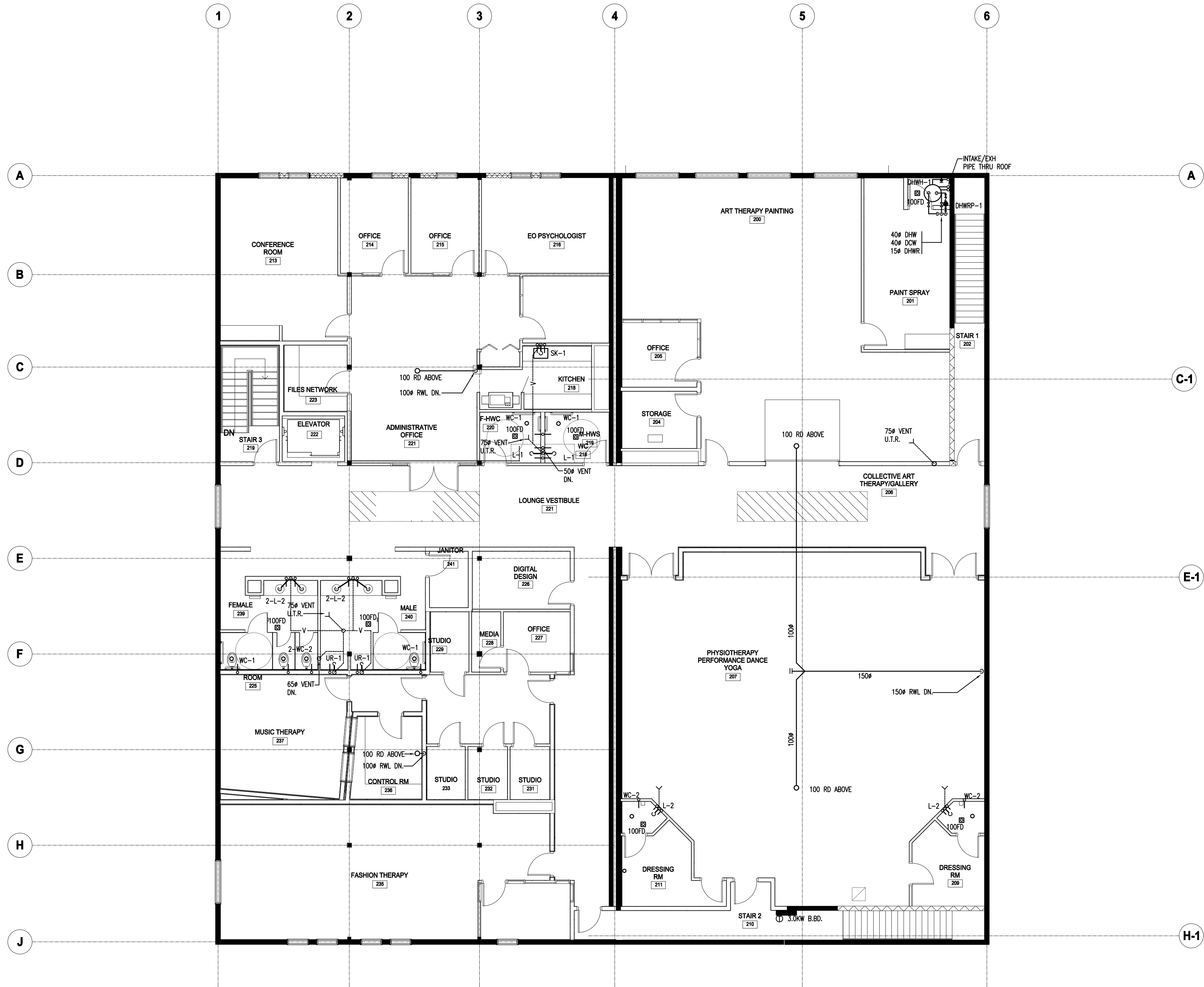
**SECOND FLOOR
PLUMBING**

DRAWING ISSUE

**ISSUED FOR PERMIT/
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PROJECT NO.	PLOT DATE	DRAWN	RZ
E13053	2014-05-	REVIEWED	SY
	SCALE	AS SHOWN	

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M3.03	0

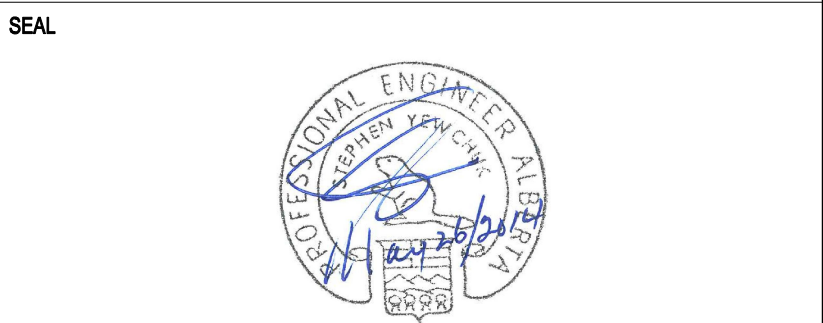


1 SECOND FLOOR PLAN-PLUMBING
M3.02 SCALE: 1 : 100

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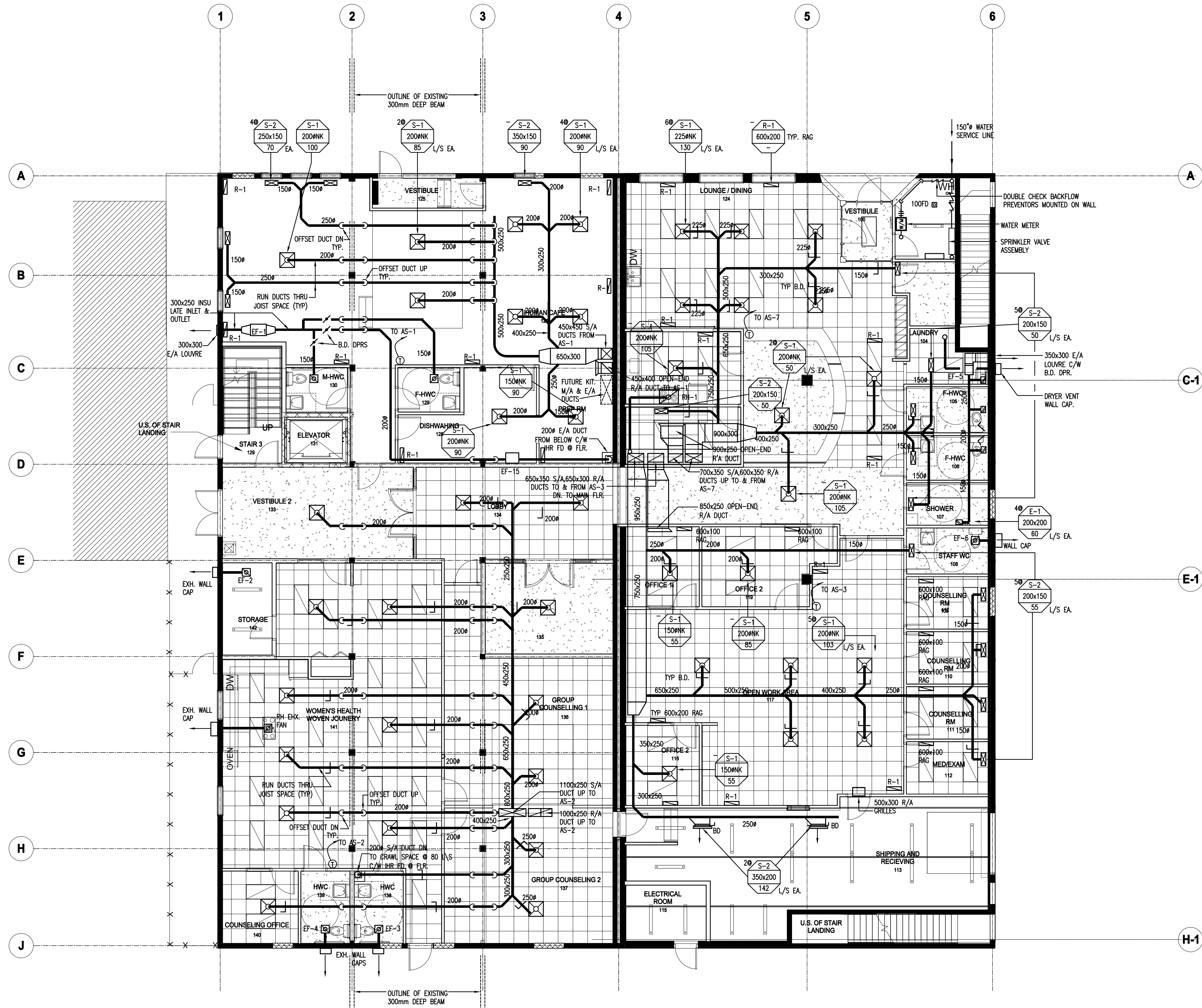
**GROUND FLOOR
VENTILATION**

DRAWING ISSUE

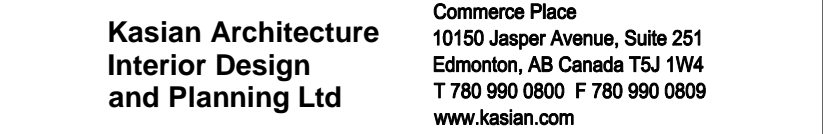
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PROJECT NO.	PLOT DATE	DRAWN	RZ
E13053	2014-05-	REVIEWED	DJ
	SCALE	AS SHOWN	

DRAWING NO.	REVISION
M4.01	0



1 GROUND FLOOR PLAN-VENTILATION
M4.01 SCALE: 1:100

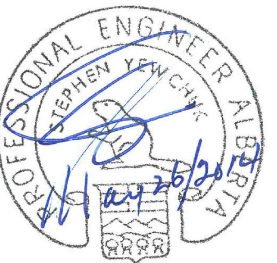
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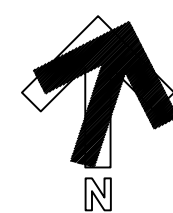
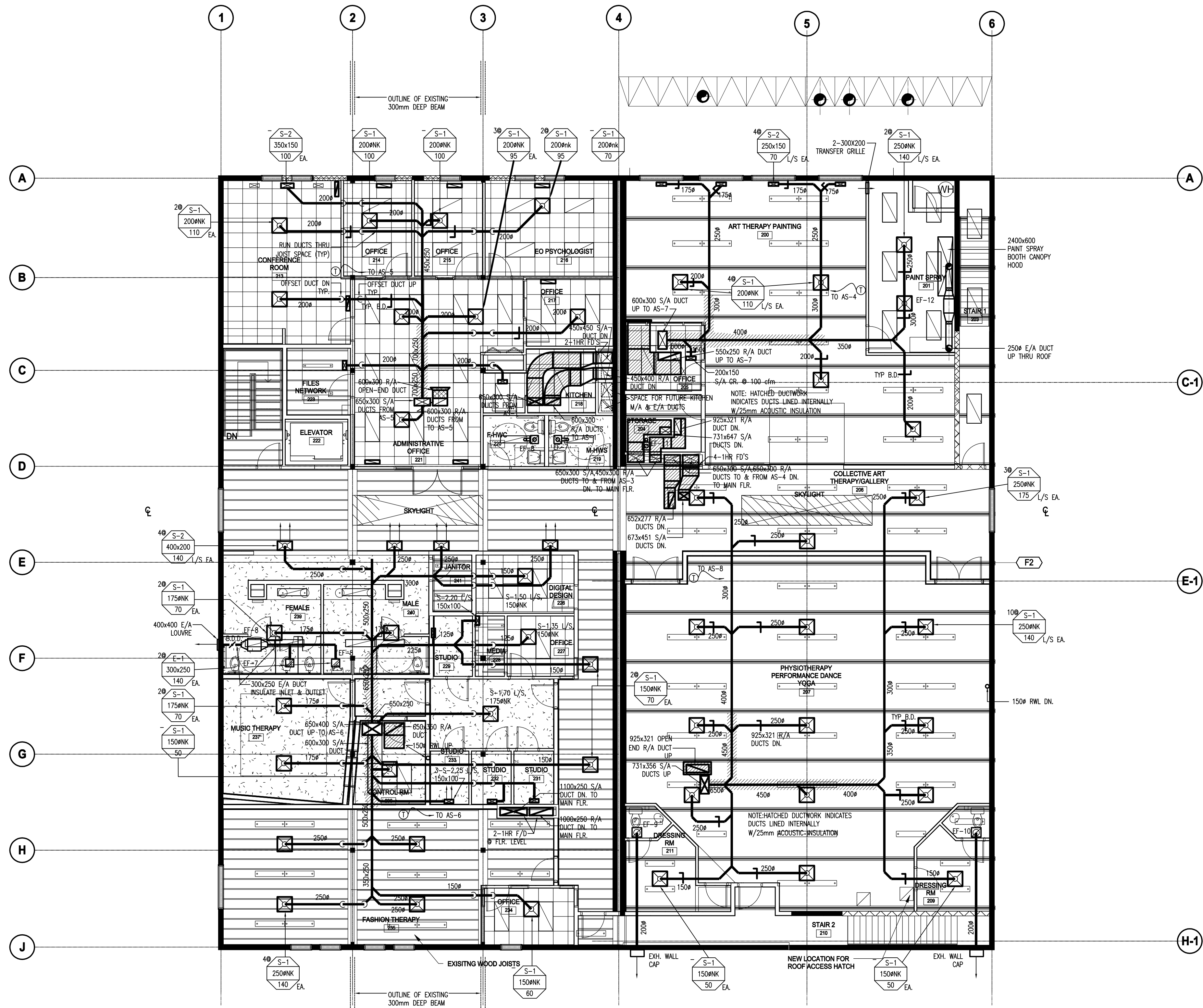
SECOND FLOOR VENTILATION

DRAWING ISSUE

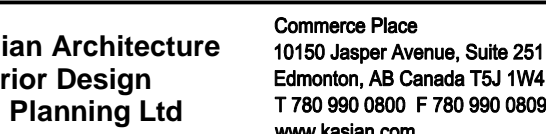
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	SCALE AS SHOWN	REVIEWED DJ

M4.02	REVISION 0
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1 SECOND FLOOR PLAN-VENTILATION
M4.02 SCALE: 1:100

[illegible]

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MECHANICAL ROOF PLAN

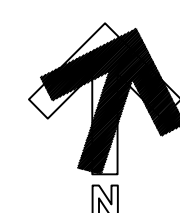
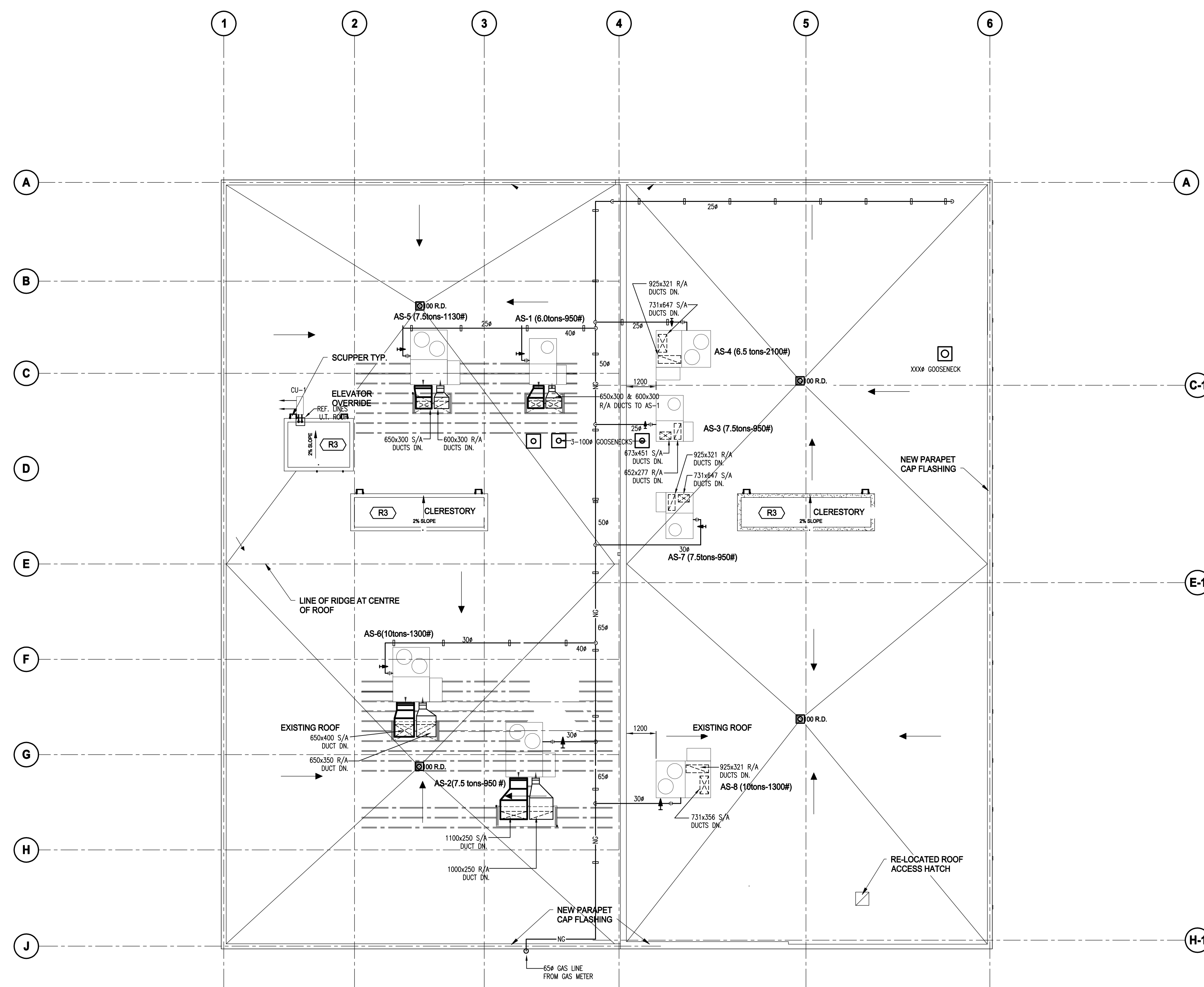
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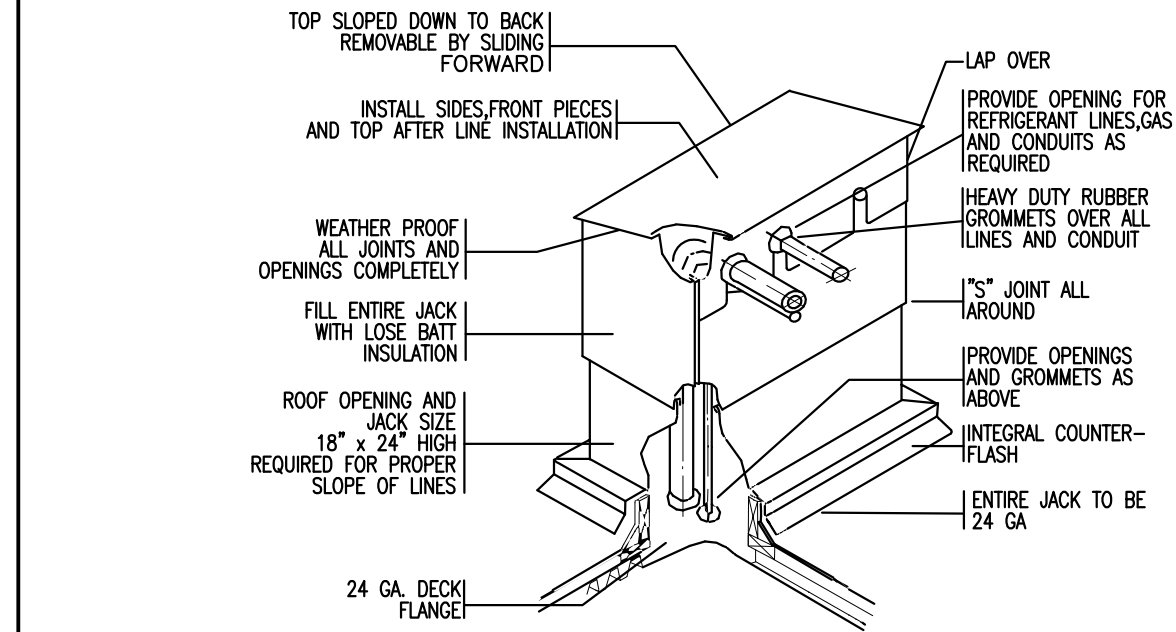
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	SCALE AS SHOWN	REVIEWED

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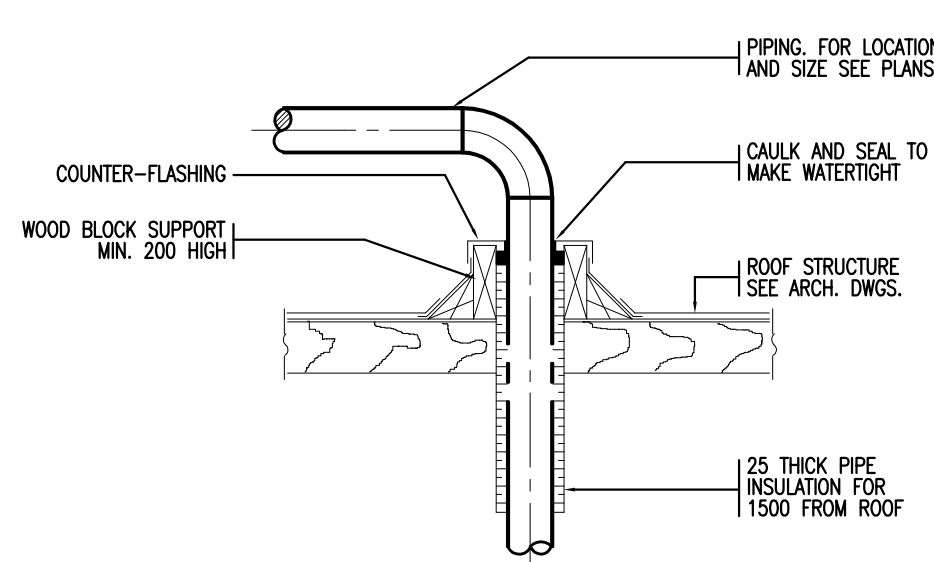
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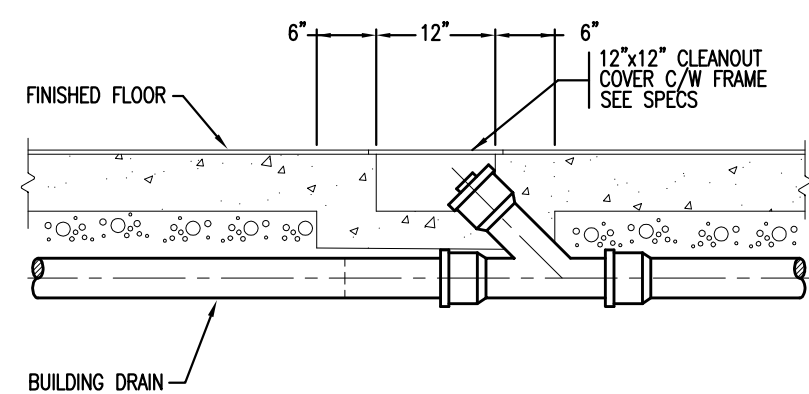
1 MECHANICAL ROOF PLAN
M5.01 SCALE: 1:100



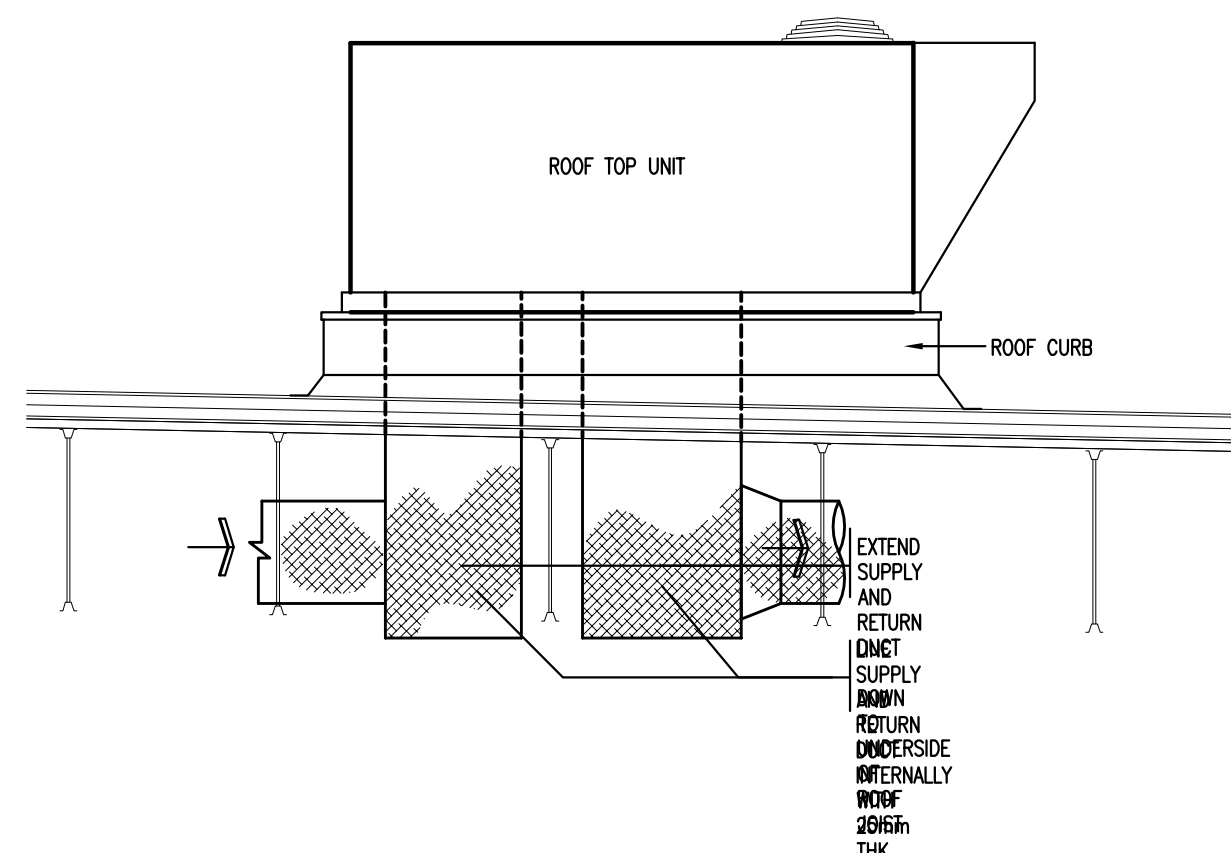
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M4
PIPE CURB DETAIL
SCALE N.T.S.



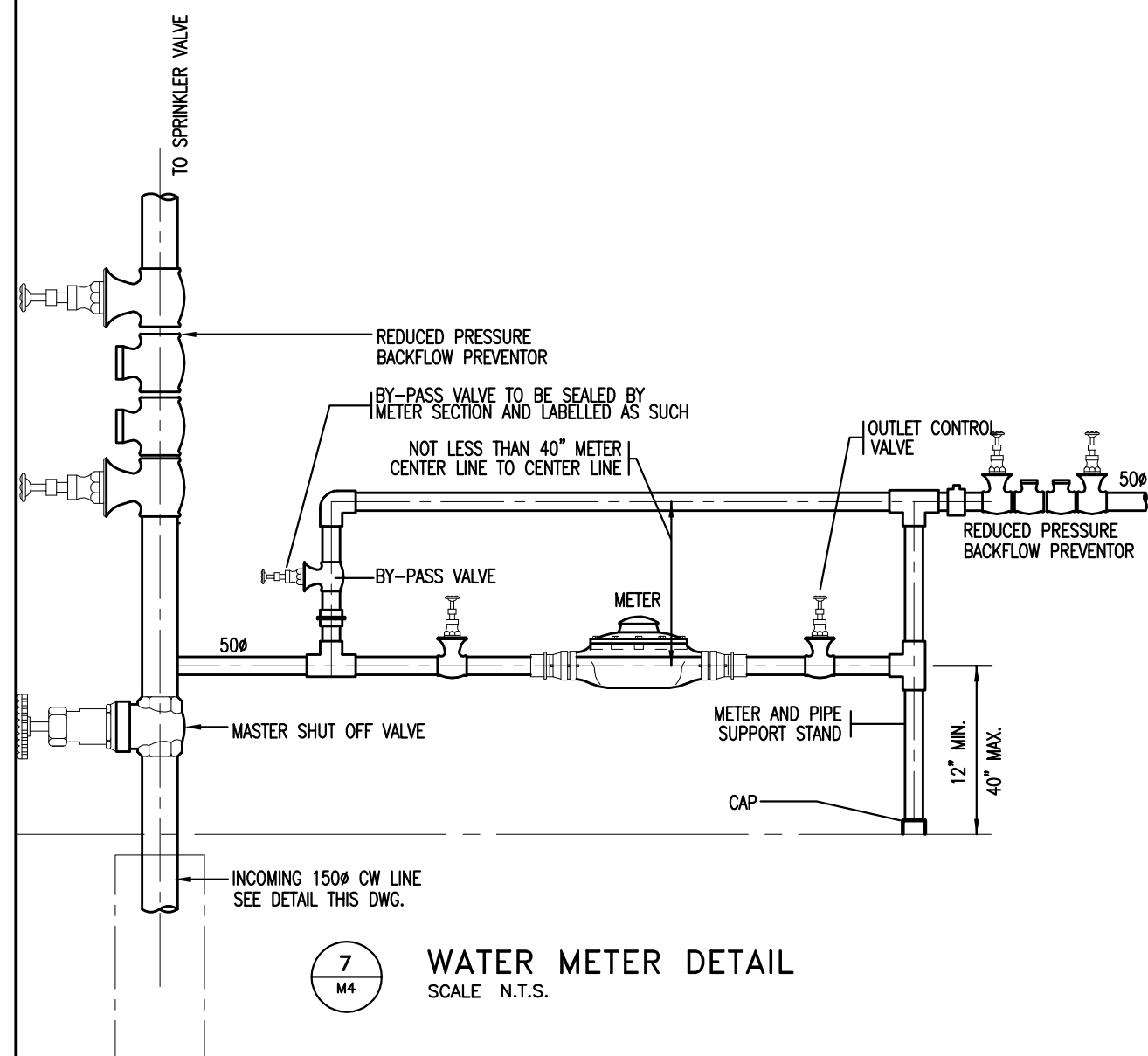
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M4
GUM BOX DETAIL
SCALE N.T.S.



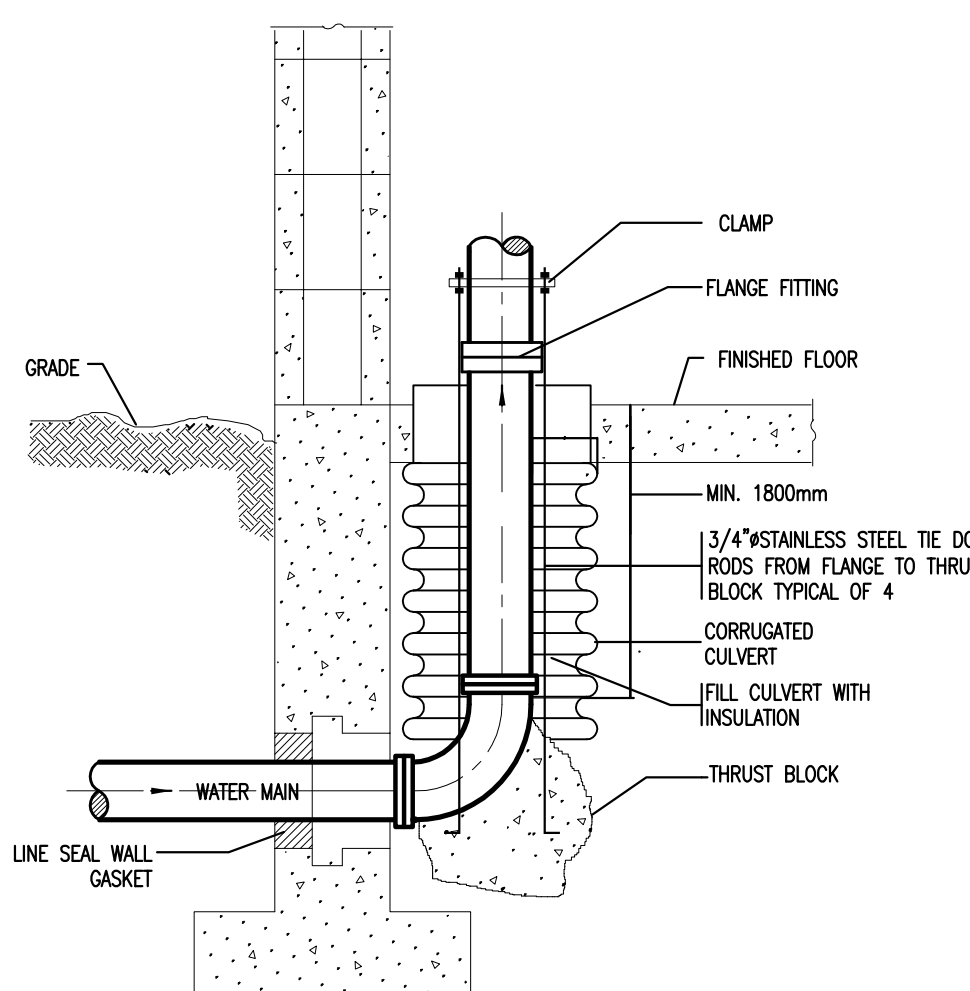
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M4
CLEANOUT IN FLOOR DETAIL
SCALE N.T.S.



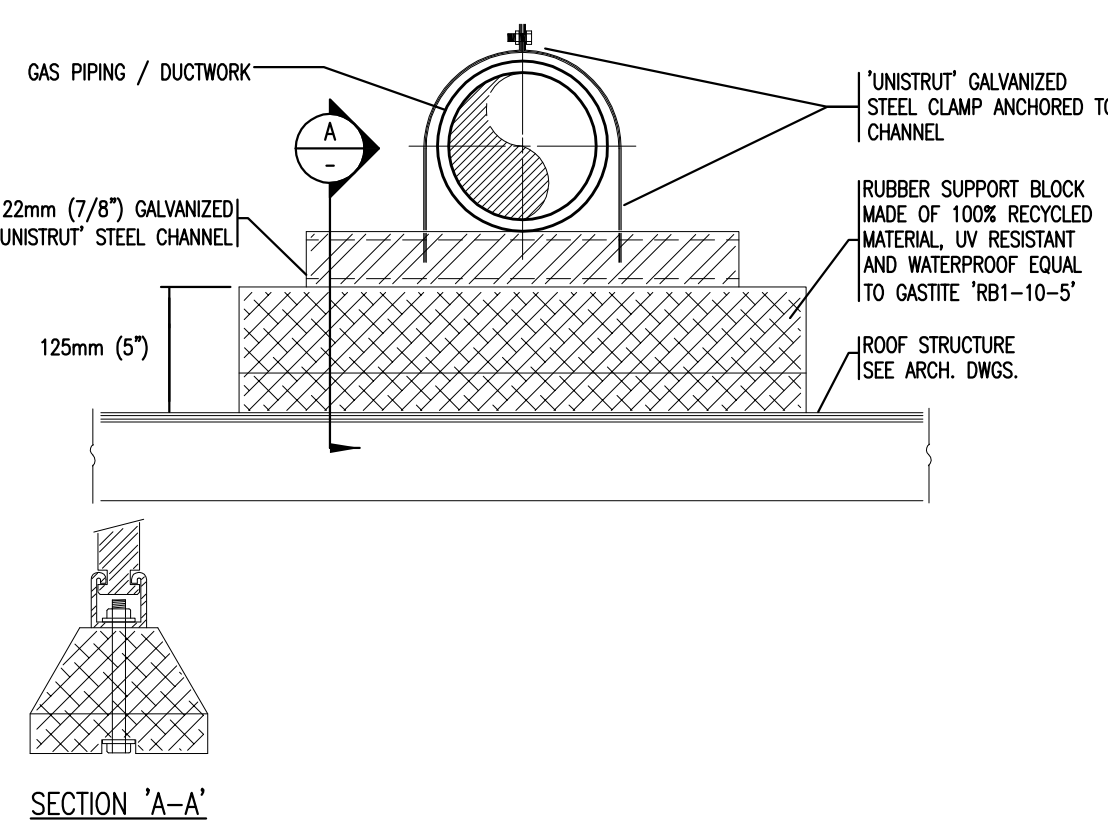
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M4
ROOF TOP UNIT DUCT DETAIL
SCALE N.T.S.



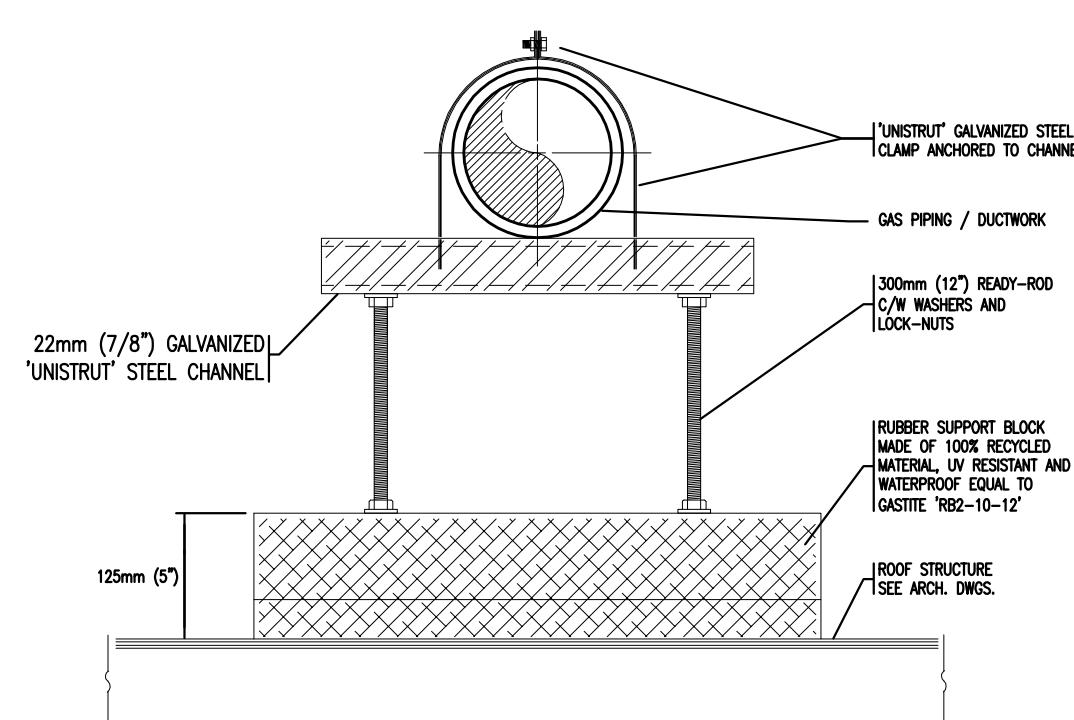
7
M4
WATER METER DETAIL
SCALE N.T.S.



5
M4
WATER SERVICE ENTRY DETAIL
SCALE N.T.S.



9
M4
GAS PIPE SUPPORT DETAIL
SCALE N.T.S.



SCHEDULE OF ROOF TOP UNITS														
UNIT TAG	AREA SERVED	MANUFACTURER	ALTERNATE MANUFACTURER	MODEL	S/A FLOW (CFM)	R/A FLOW (CFM)	EXT. S.P. (in.)	HEATING CAP. (MBH)	COOLING CAP. (MBH)	S/A FAN MOTOR (HP)	COMP. MOTOR (HP)	COND. FAN MOTOR (HP)	POWER SUPPLY	REMARKS
AS-1	GRD. FLR.	CARRIER	TRANE,ALLIED,ENGA	48TCFA07A2M5-OA0A1	2400	2100	1.0	150	72.0	3.0	AS REQ'D	AS REQ'D	208/3ø/60	
AS-2	GRD. FLR.	CARRIER		48TCDO8A2M5-OA01	3510	2850	1.0	225	72.0	3.0	AS REQ'D	AS REQ'D	208/3ø/60	
AS-3	GRD. FLR.	CARRIER		48TCFD08A2M5-OB0A1	2575	2285	1.0	225	72.0	3.0	AS REQ'D	AS REQ'D	208/3ø/60	
AS-4	GRD. FLR.	TRANE	ENG A	0AT0072A3-0TAT00EG-A1 60000000-0018000000	2420	1365	1.0	250	78.0	3.0	AS REQ'D	AS REQ'D	208/3ø/60	
AS-5	2ND FLR.	CARRIER		48TCDO8A2M5-OA01	2350	2065	1.0	225	72.0	3.0	AS REQ'D	AS REQ'D	208/3ø/60	
AS-6	2ND FLR.	CARRIER		48TCFD1A2M5-OA0A1	4000	3227	1.0	250	120.0	3.0	AS REQ'D	AS REQ'D	208/3ø/60	
AS-7	2ND FLR.	CARRIER		48TCFD08A2M5-OB0A1	3050	2440	1.0	225	72.0	3.0	AS REQ'D	AS REQ'D	208/3ø/60	
AS-8	2ND FLR.	CARRIER		48TCFD12A2M5-OB0A1	4375	3755	1.0	250	120.0	3.0	AS REQ'D	AS REQ'D	208/3ø/60	

SCHEDULE OF SUPPLY,RETURN & EXHAUST DIFFUSERS & GRILLES					
UNIT TAG	SYSTEM	MODEL	VOLUME CONTROL	MATERIAL	REMARKS
S-1	SUPPLY AIR	800x600 SCDA	YES	STEEL	C/W DUCT COLLAR FOR AREAS WITH NO CEILING
S-2	SUPPLY AIR	EH PRICE LBP16B/1000/B12	-	ALUMINUM	
R-1	RETURN AIR	EGGRATE	-	-	
E-1	EXHAUST AIR	SERIES 80	-	ALUMINUM	

NOTES: 1) ALL ROOF CURBS FOR AS-1,2,3 & 4 BY BUILDING SUPPLIER.
2) AS-5,6,7 & 8 SUPPLIED WITH ROOF CURBS
3) ALL AIR SYSTEM C/W ECONOMIZER & PROGRAMMABLE THERMOSTAT.

SCHEDULE OF EXHAUST FANS									
UNIT NO.	AREA SERVED	LOCATION	MANUFACTURER	UNIT MODEL NO	AIR FLOW (CFM)	E.S.P. (IN W.C.)	MOTOR HP eq.	REMARKS	
EF-1	STORAGE 142	STORAGE 142	GREENHECK	BSQ-70-4	410	0.25	1/3	INTERLOCK WITH AS-1 & AS-2	
EF-2	STORAGE 142	STORAGE 142	NUTONE/BROAN	-	100	-	FRAC.	INTERLOCK WITH AS-2	
EF-3	HWC 138	HWC 138	NUTONE/BROAN	-	140	-	FRAC.	ON/OFF SWITCH	
EF-4	HWC 139	HWC 139	NUTONE/BROAN	-	140	-	FRAC.	ON/OFF SWITCH	
EF-5	LAUNDRY 104	LAUNDRY 104	GREENHECK	BSQ-80-4	520	0.25	1/4	ON/OFF SWITCH	
EF-6	M-HWC 219	M-HWC 219	NUTONE/BROAN	-	120	-	FRAC.	ON/OFF SWITCH	
EF-7	M-HWC 220	M-HWC 220	NUTONE/BROAN	-	120	-	FRAC.	ON/OFF SWITCH	
EF-8	FEMALE 239,MALE 240	FEMALE 239	GREENHECK	BSQ-80-4	640	0.25	1/4	ON/OFF SWITCH	
EF-9	DRESSING 211	DRESSING 211	NUTONE/BROAN	-	220	-	FRAC.	ON/OFF SWITCH	
EF-10	DRESSING 209	DRESSING 209	NUTONE/BROAN	-	220	-	FRAC.	ON/OFF SWITCH	
EF-11	STORAGE 204	STORAGE 204	NUTONE/BROAN	-	100	-	FRAC.	ON/OFF SWITCH	
EF-12	PAINT SPRAY 201	PAINT SPRAY 201	GREENHECK	BSQ-80-7	800	1.0	3/4	INTERLOCK WITH AS-4	

NOTES: 1) PROVIDE NEOPRENE VIBRATION ISOLATORS FOR CEILING HUNG FANS.
2) ALL FANS C/W BACKDRAFT DAMPERS.

SCHEDULE OF FORCE-FLO						
UNIT	MANUFACTURER	LOCATION	CAPACITY (ELEC. KW)	MODEL	HP	REMARKS
FF-1	QUELLETE	VESTIBULE 100	5.0	OCAU05038	FRAC	SURFACE FLOOR MOUNTED,D2 ARRGMT. C/W BUILT-IN THERMOSTAT, 208/1ø/60
FF-2	QUELLETE	VESTIBULE 125	5.0	OCAU03000	FRAC	SURFACE FLOOR MOUNTED,D2 ARRGMT. C/W BUILT-IN THERMOSTAT, 208/1ø/60
FF-3	QUELLETE	VESTIBULE 2	5.0	OCAU03000	FRAC	SURFACE FLOOR MOUNTED,D2 ARRGMT. C/W BUILT-IN THERMOSTAT, 208/1ø/60
FF-4	QUELLETE	REAR ENTRY VEST	5.0	OCAU03000	FRAC	SURFACE FLOOR MOUNTED,D2 ARRGMT. C/W BUILT-IN THERMOSTAT, 208/1ø/60
FF-5	QUELLETE	SHIPPING 113	5.0	OCAU03000	FRAC	PROJECTION TYPE, CEILING MOUNTED, 208/3ø/60
FF-6	QUELLETE	STAIR 01	3.0	OACPU4808	FRAC	SURFACE FLOOR MOUNTED,D2 ARRGMT. C/W BUILT-IN THERMOSTAT, 208/1ø/60
FF-7	QUELLETE	STAIR 02	3.0	OCAU03000	FRAC	SURFACE FLOOR MOUNTED,D2 ARRGMT. C/W BUILT-IN THERMOSTAT, 208/1ø/60

NOTES: DHWH-1: USE AO SMITH CYCLONE XHE MODEL BTH-150,100 GAL. CAPACITY @100' RISE. 150 MBH INPUT. PROVIDE DOM. HW RECIRC PUMP (DHRP-1) AT 2 GPM, 208v/60/1ø

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2014-05-23	RE-ISSUED FOR BUILDING PERMIT AND ISSUED FOR CONSTRUCTION		
2013-09-13	BUILDING PERMIT		
2013-08-16	75% COORDINATION		
2013-08-07	50% COORDINATION		
2013-09-13	ISSUED FOR PERMIT		
0	REVISION / DRAWING ISSUE		

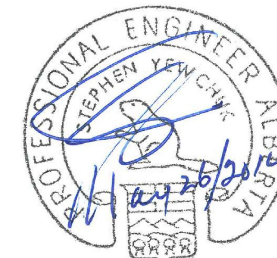
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PROJECT

iHUMAN FACILITY RENOVATION

9625 102A AVE, EDMONTON, ALBERTA, CANADA

DRAWING TITLE

**SCHEDULE OF EQUIPMENT
AND DETAILS**

DRAWING ISSUE

**ISSUED FOR PERMIT/
CONSTRUCTION
MAY 23, 2014**

PROJECT NO.	PLOT DATE	2014-05-	DRAWN	RZ
E13053	SCALE	AS SHOWN	REVIEWED	DJ
DRAWING NO.	M6.01			REVISION 0

2014-05-23	RE-ISSUED FOR BUILDING PERMIT AND ISSUED FOR CONSTRUCTION	
2013-09-13	BUILDING PERMIT	
2013-08-16	75% COORDINATION	
2013-08-07	50% COORDINATION	
2013-09-13	ISSUED FOR PERMIT	HEI
0	REVISION / DRAWING ISSUE	REVIEW

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PROJECT

iHUMAN FACILITY RENOVATION

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DRAWING TITLE

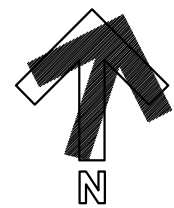
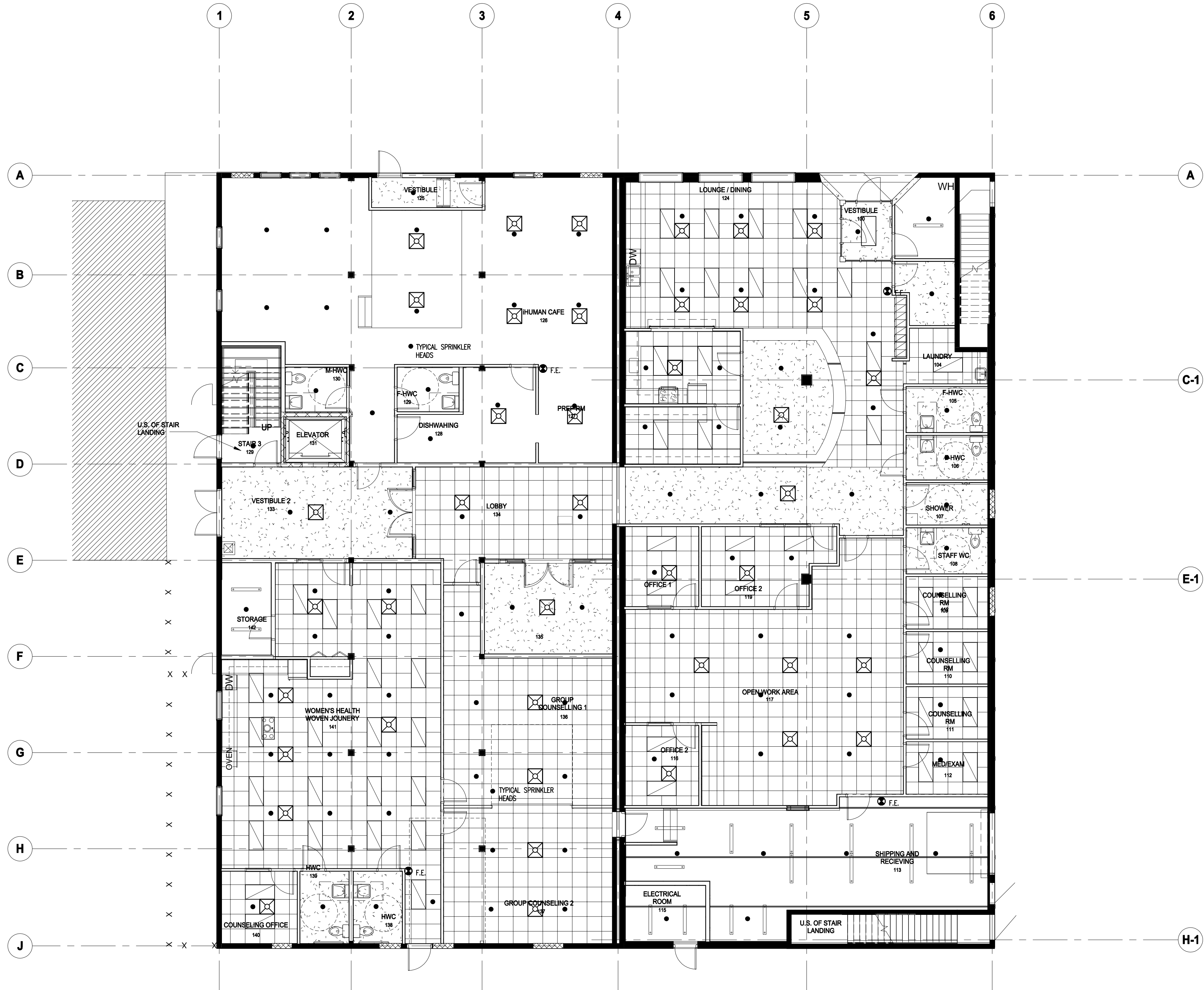
**GROUND FLOOR
FIRE PROTECTION**

DRAWING ISSUE

**ISSUED FOR PERMIT/
CONSTRUCTION
MAY 23, 2014**

PROJECT NO.	PLOT DATE	DRAWN	RZ
E13053	2014-05-	REVIEWED	DJ
SCALE	AS SHOWN		

DRAWING NO.	REVISION
M8.01	0



1 GROUND FLOOR-FIRE PROTECTION
M8.01 SCALE: 1 : 100

2014-05-23	RE ISSUED FOR BUILDING PERMIT AND ISSUED FOR CONSTRUCTION	
2013-09-13	BUILDING PERMIT	
2013-08-16	75% COORDINATION	
2013-08-07	50% COORDINATION	
2013-09-13	ISSUED FOR PERMIT	HEI
0	REVISION / DRAWING ISSUE	REVIEW

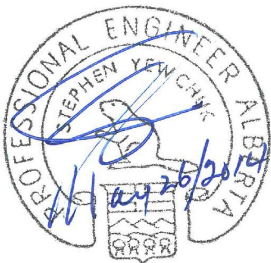
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PROJECT

iHUMAN FACILITY RENOVATION

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DRAWING TITLE

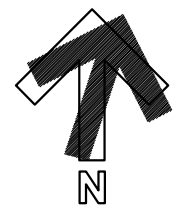
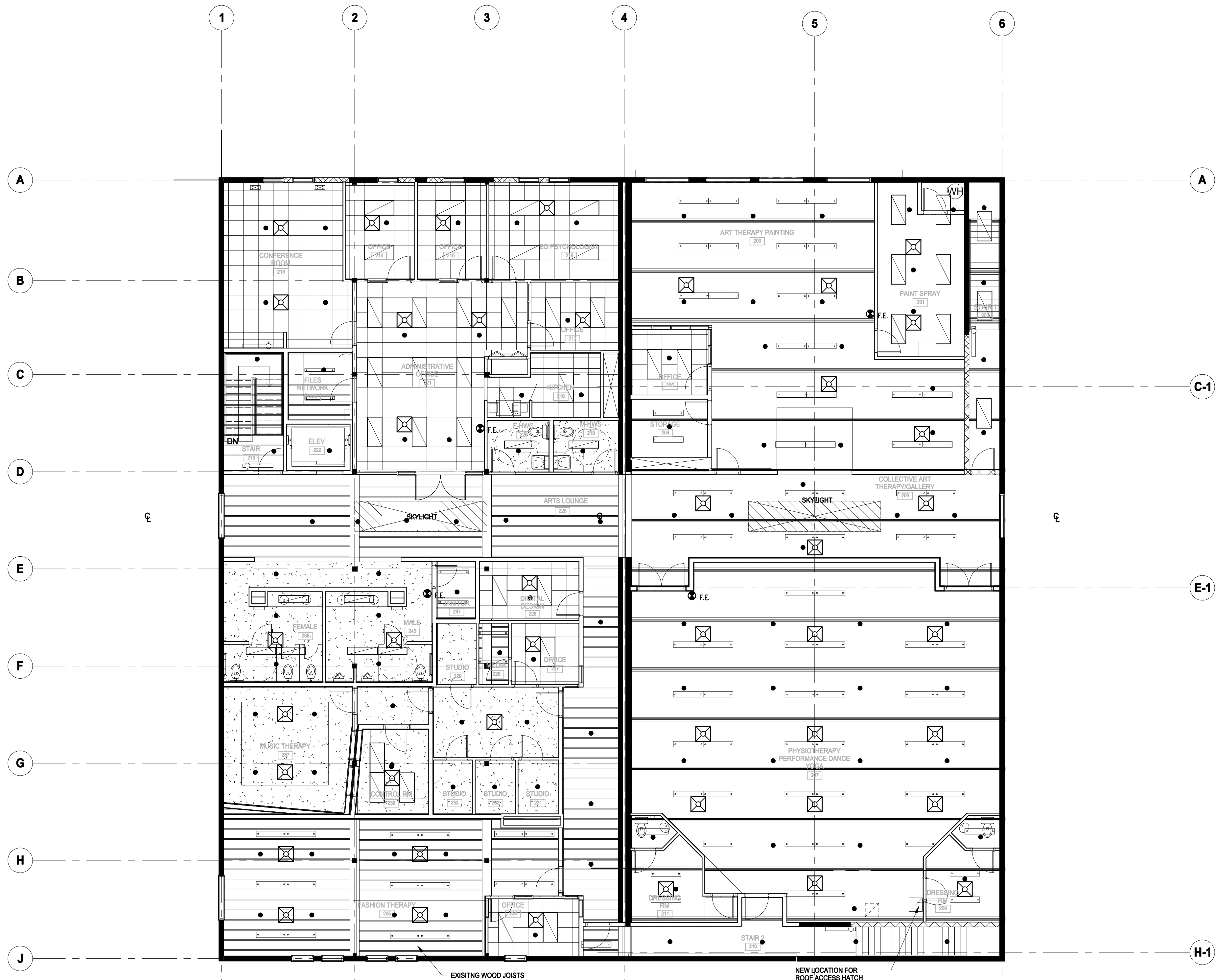
**SECOND FLOOR
FIRE PROTECTION**

DRAWING ISSUE

**ISSUED FOR PERMIT/
CONSTRUCTION
MAY 23, 2014**

PROJECT NO.	PLOT DATE	DRAWN	RZ
E13053	2014-05-	REVIEWED	DJ
DRAWING NO.	SCALE	REVISION	0
	AS SHOWN		

M9.02



1 SECOND FLOOR PLAN-FIRE PROTECTION
SCALE: 1 : 100