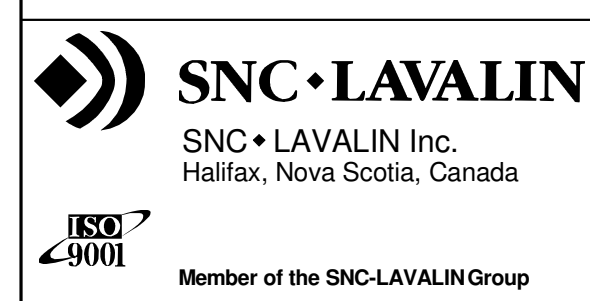
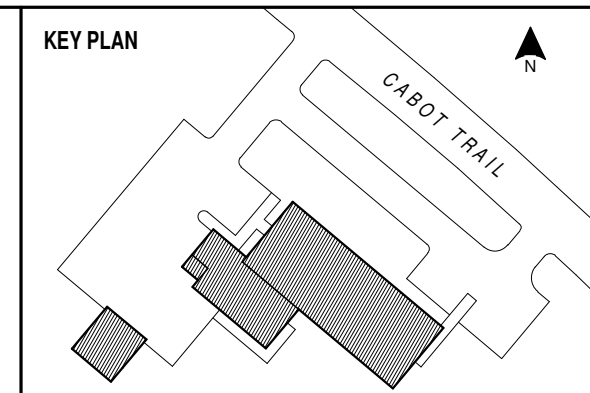
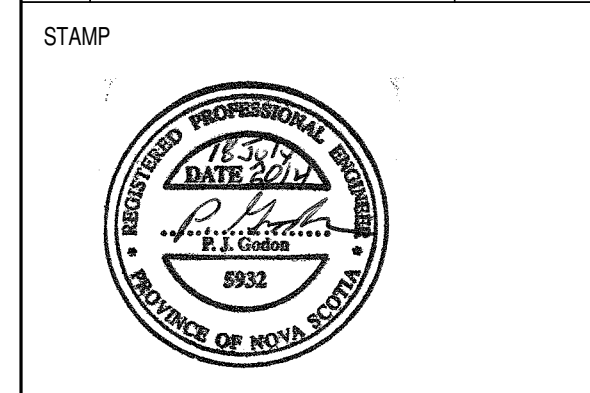


PLUMBING SYMBOLS		DUCTWORK		DUCTWORK (CONT)		PIPING TYPES		CONTROLS / INSTRUMENTATION	
		<p>(ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)</p>							
<p><b>FIRE PROTECTION</b></p>						<p><b>DRAWING/DETAIL REF. KEY</b></p>			
						<p><b>MISCELLANEOUS</b></p>			



NOTES

NO.	REVISION	DATE
C02	ISSUED FOR TENDER	18 JUL 2014



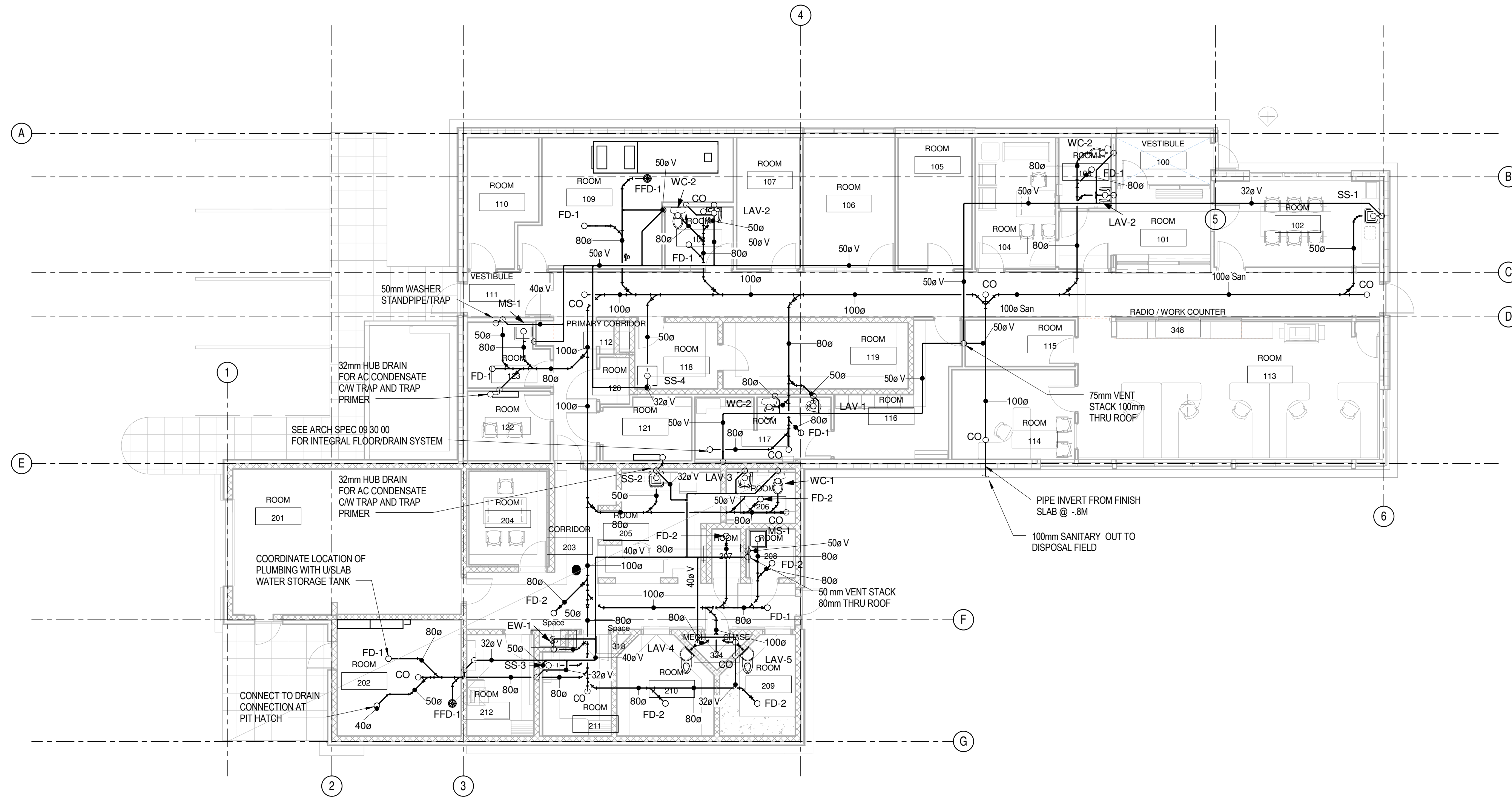
INGONISH CIVIC BUILDING	
INGONISH, NS	
DSRA JOB #:	12169
DRAWN BY:	C.A.
CHECKED BY:	PG
SCALE:	N.T.S.

MECHANICAL LEGEND

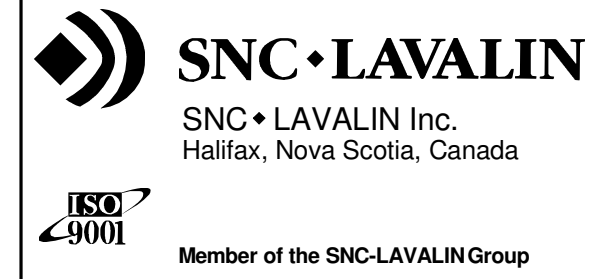
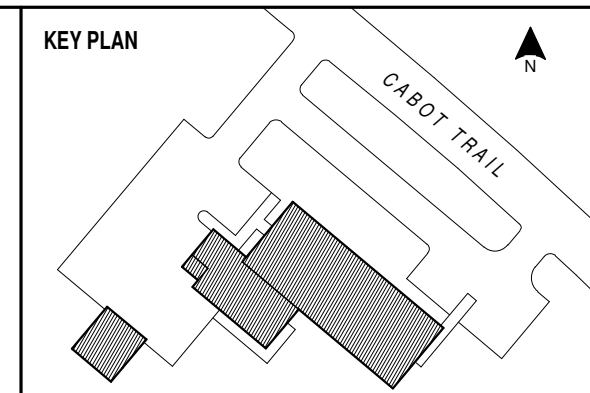
# 400

1 MECHANICAL LEGEND  
400 SCALE: N.T.S.

615976-001-D-ME-CW-C-018-01

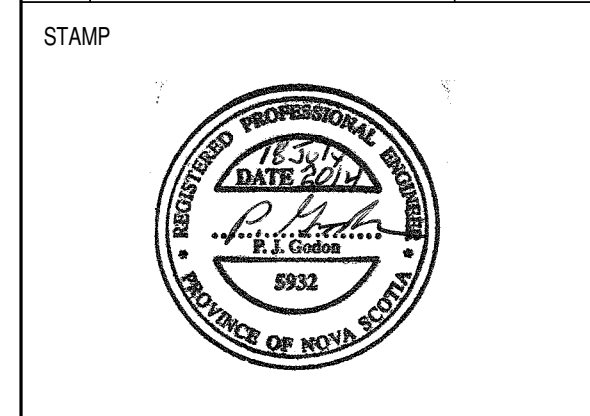


**1 Sanitary Piping Plan**  
401 SCALE: 1:100



NOTES

NO.	REVISION	DATE
C01	ISSUED FOR TENDER	18 JUL 2014

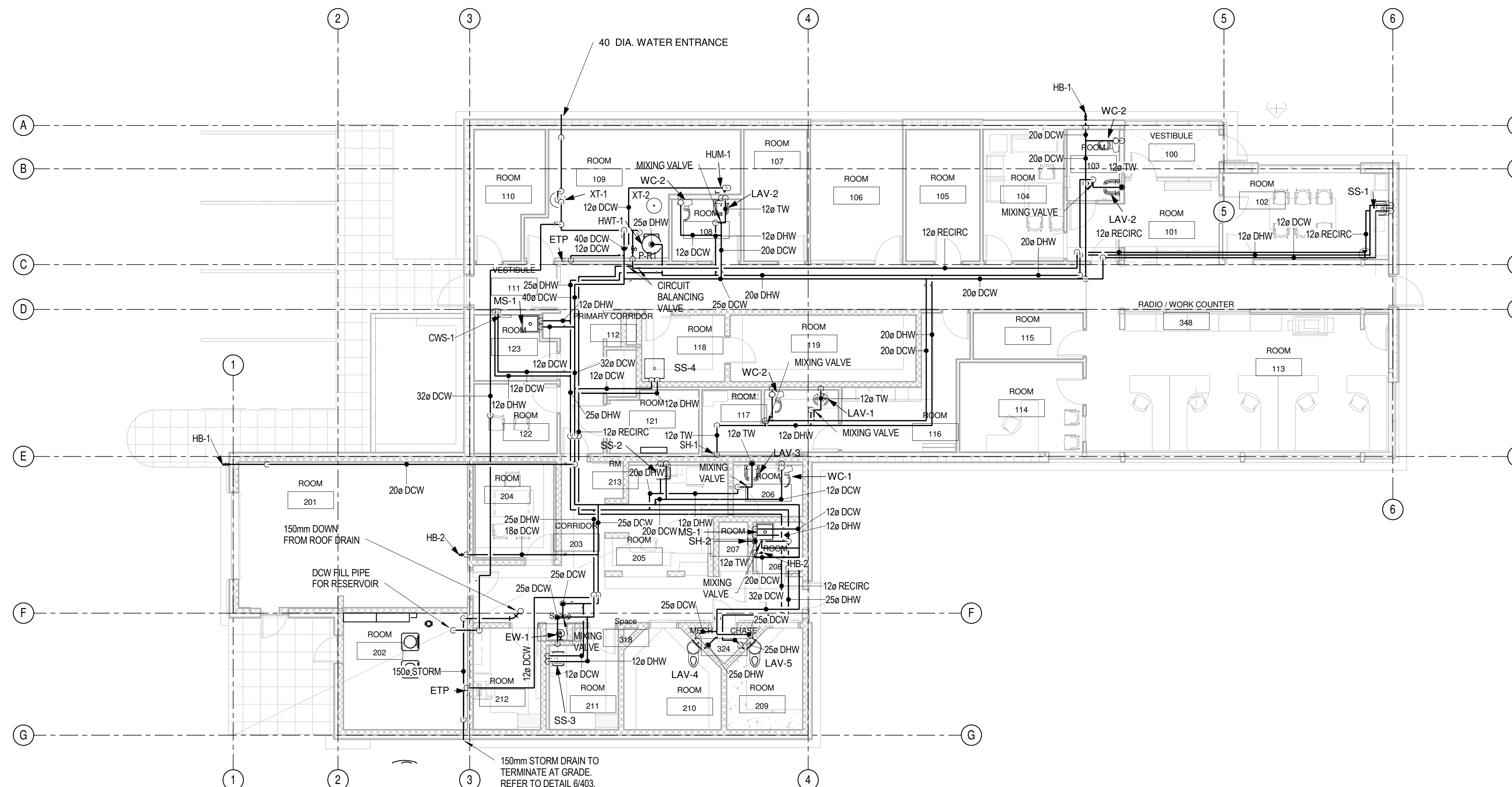


<b>INGONISH CIVIC BUILDING</b>	
INGONISH, NS	
DSRA JOB #:	12169
DRAWN BY:	CDA
CHECKED BY:	PG
SCALE:	1:100

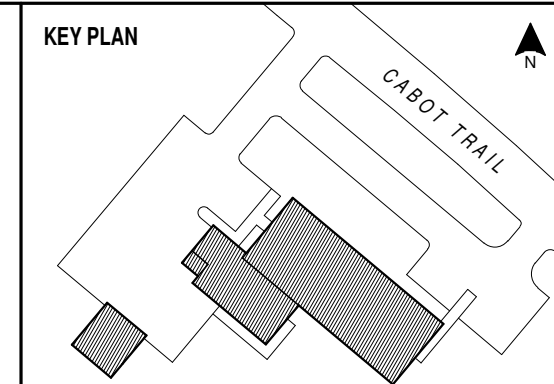
**SANITARY PIPING PLAN**

**401**

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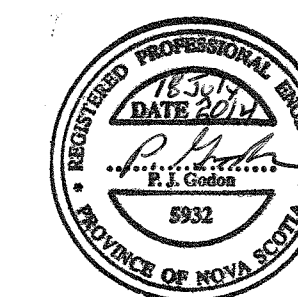
**1** Plumbing Piping Plan  
 402 SCALE: 1:100



NOTES

NO.	REVISION	DATE
C01	ISSUED FOR TENDER	18 JUL 2014

STAMP



INGONISH CIVIC BUILDING

INGONISH, NS

DSRA JOB #: 12169

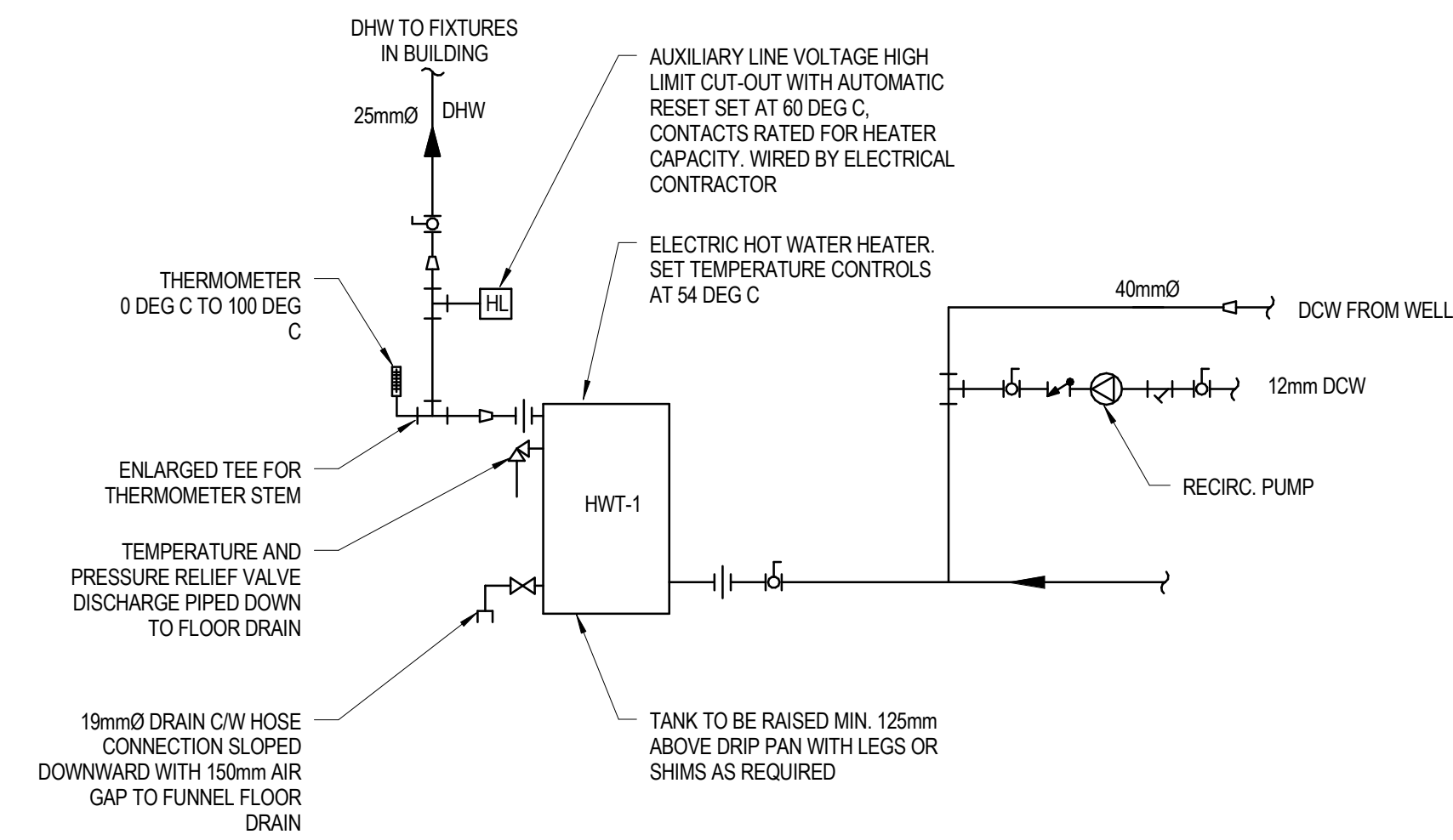
DRAWN BY: CDA

CHECKED BY: PG

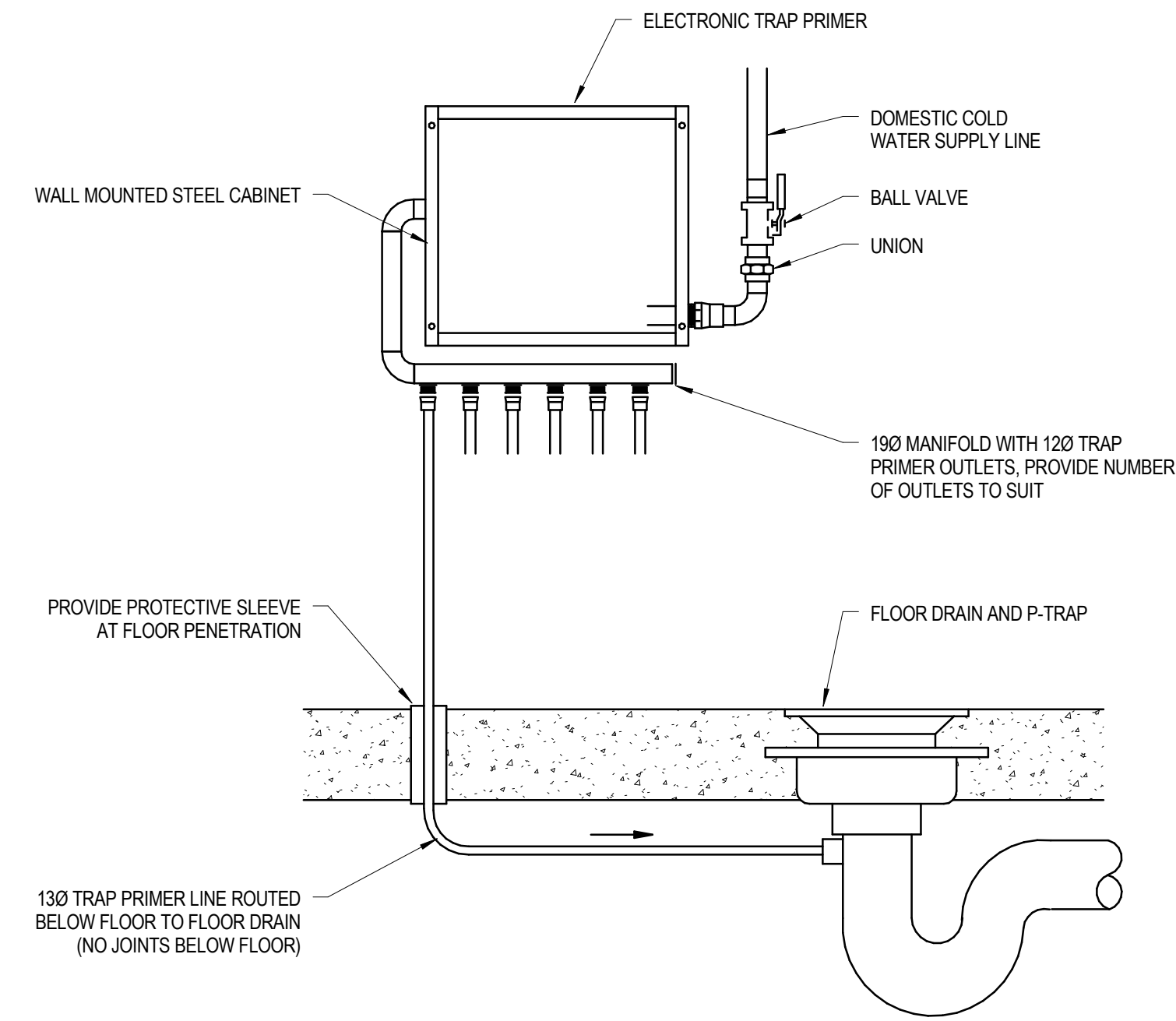
SCALE: 1:100

PLUMBING PIPING PLAN

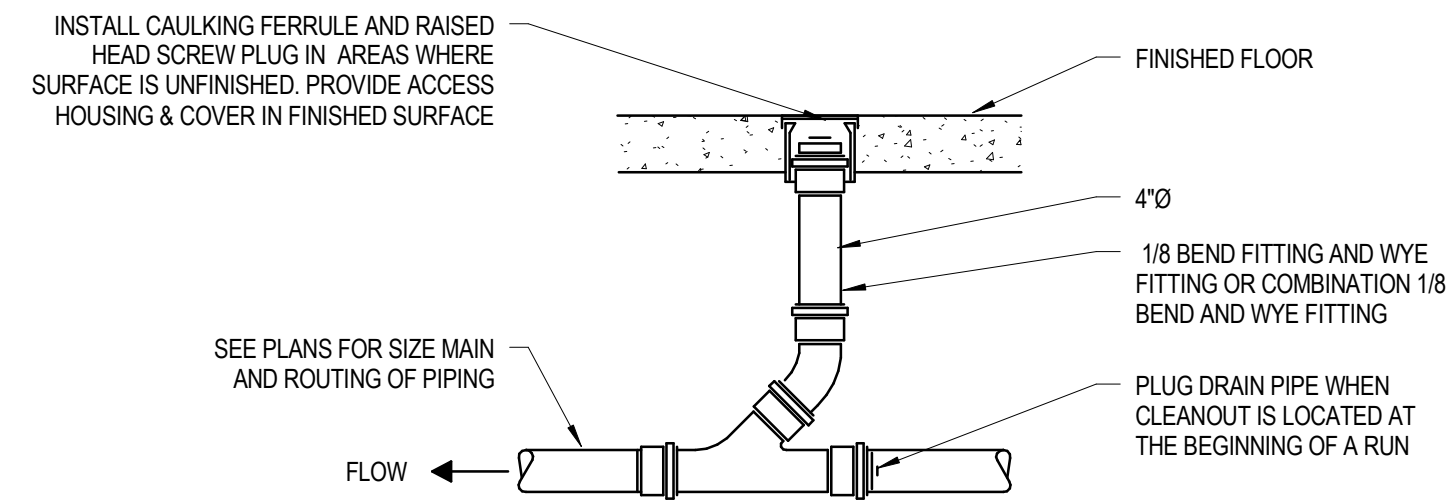
402



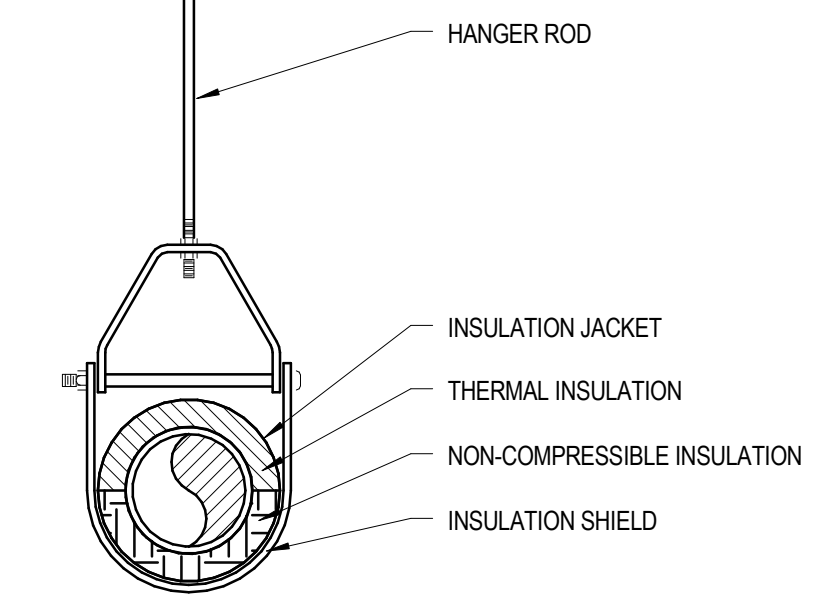
**1 DOMESTIC HOT WATER HEATER**  
403 SCALE: N.T.S.



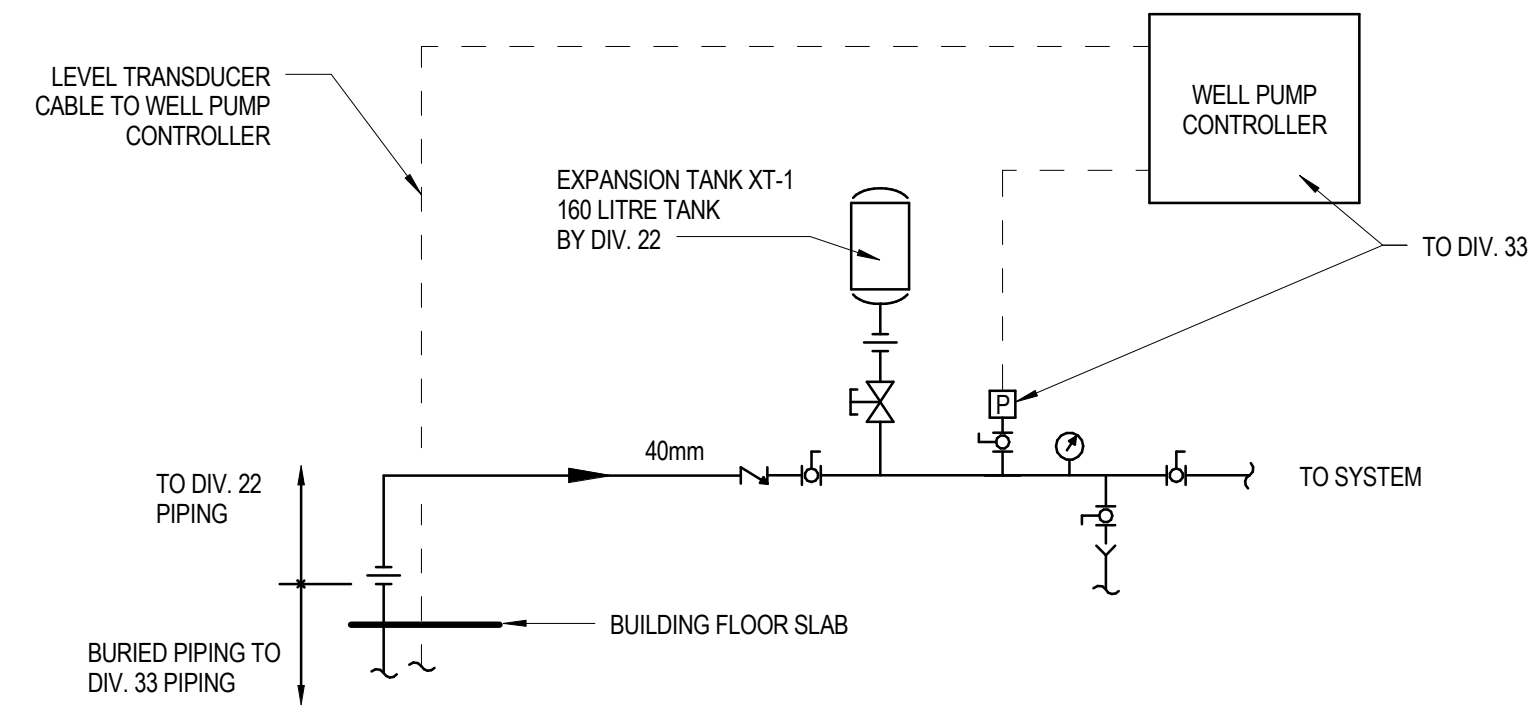
**2 ELECTRONIC TRAP PRIMER**  
403 SCALE: N.T.S.



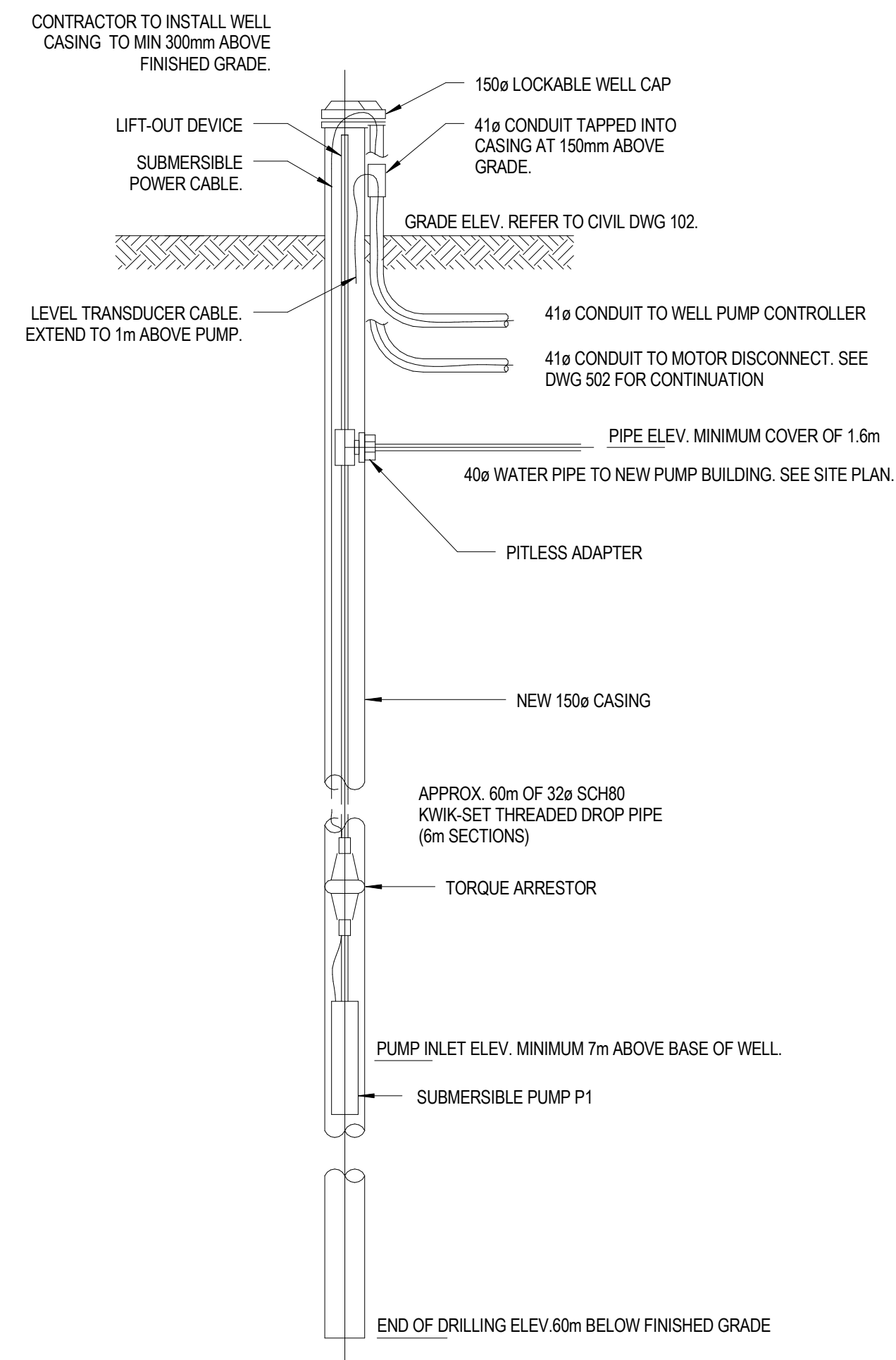
**3 TYPICAL FLOOR CLEANOUT**  
403 SCALE: N.T.S.



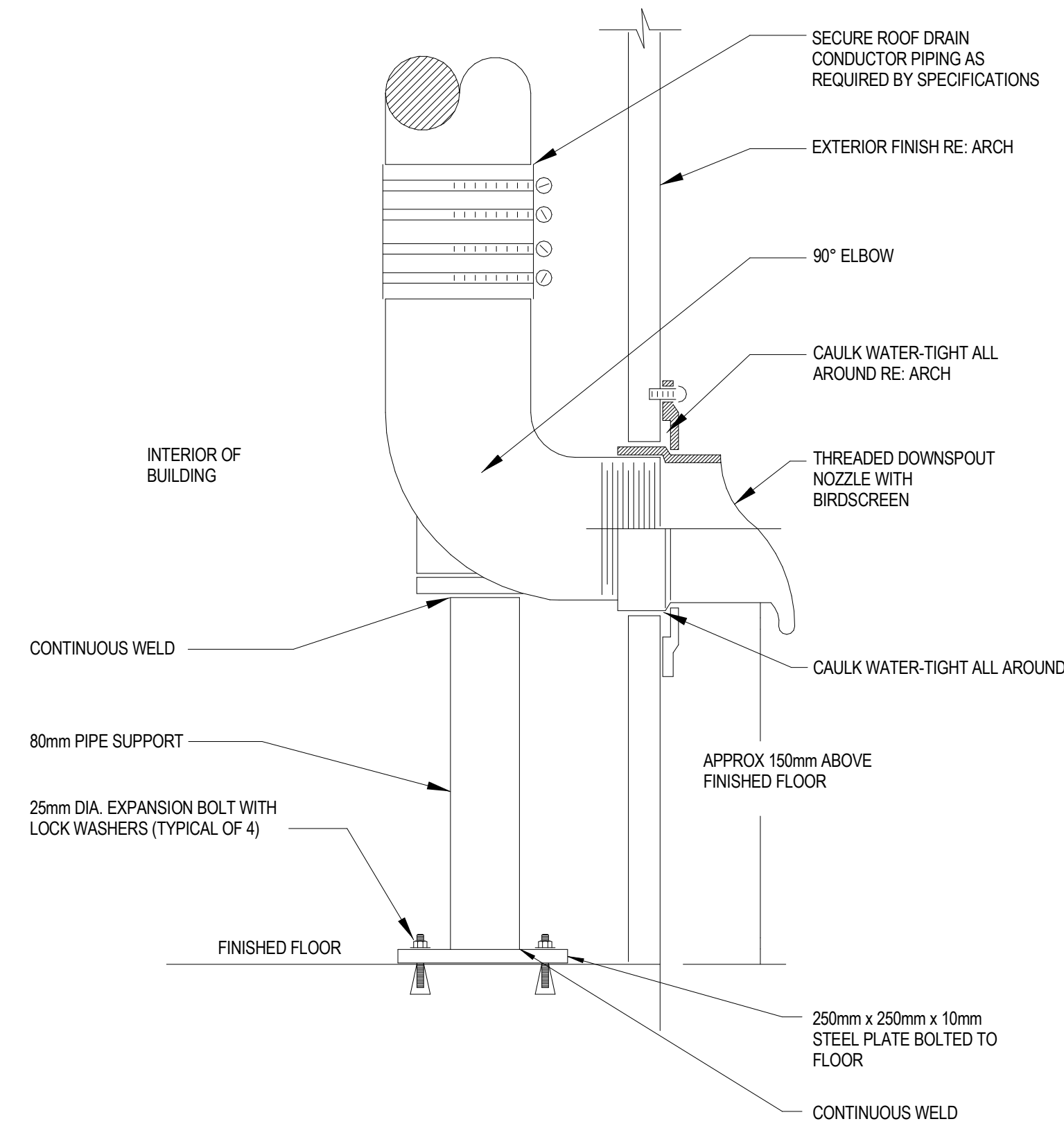
**4 PENDANT TYPE PIPE HANGER**  
403 SCALE: N.T.S.



**7 DOMESTIC WATER ENTRANCE**  
403 SCALE: N.T.S.

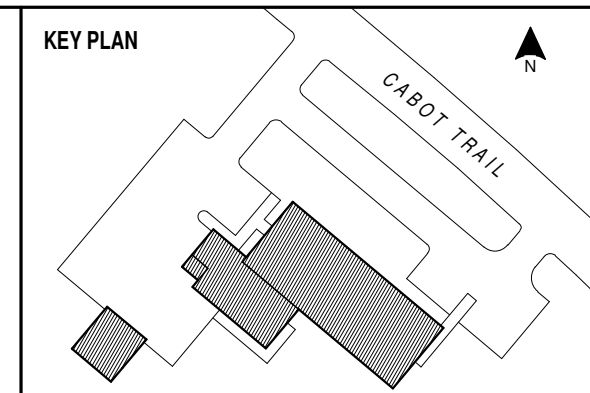


**5 WELL PUMP DETAIL**  
403 SCALE: N.T.S.



**6 ROOF DRAIN CONDUCTOR NOZZLE DETAIL**  
403 SCALE: N.T.S.

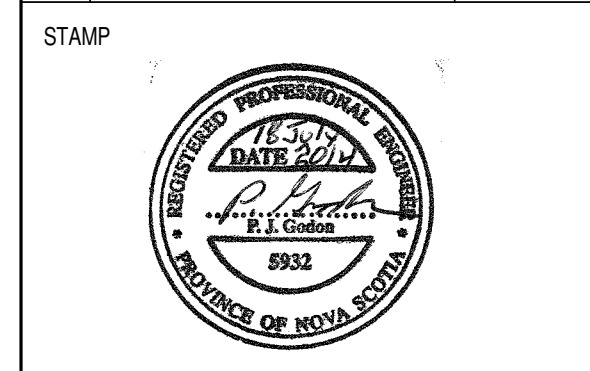
PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE	DRAIN	VENT	DCW	DHW	COMMENTS
C.O.	CLEAN OUT					SIZE AS PER PIPE SIZE ON DRAWING
CO	CLEAN OUT					SIZE AS PER PIPE SIZE ON DRAWING
CWS-1	WASHER	50.0	38.0	12.0	12.0	WASHER (NIC)
ETP	ELECTRONIC TRAP PRIMER					
EW-1	EYE WASH	32.0	32.0	25.0	25.0	FOOT PEDDLE, MIXING VALVE, AUTO-RESET
FD-1	FLOOR DRAIN	75.0				ROUND TOP
FD-2	FLOOR DRAIN	75.0				ROUND TOP, TAMPER PROOF SCREWS WITH LOCTITE
FFD-1	FUNNEL FLOOR DRAIN	75.0				ROUND TOP
HB-1	Non Freeze Wall hydrant					
HB-2	Interior Hose Bibb with 15m Hose			18.0		
LAV-1	COUNTERTOP LAV	32.0	32.0	12.0	12.0	BARRIER FREE, MIXING VALVE, HANDS FREE
LAV-2	WALL HUNG LAV	32.0	32.0	12.0	12.0	BARRIER FREE, MIXING VALVE, HANDS FREE
LAV-3	WALL HUNG LAV	32.0	32.0	12.0	12.0	MIXING VALVE, HANDS FREE
LAV-4	LAV - PENALWARE	63.0	38.0	25.0	25.0	FLUSH VALVE, MIXING VALVE WITH FIXTURE
LAV-5	LAV - PENALWARE	63.0	38.0	25.0	25.0	FLUSH VALVE, MIXING VALVE WITH FIXTURE
MS-1	MOP SINK	75.0	38.0	12.0	12.0	
RD	ROOF DRAIN					SIZE AS PER PIPE SIZE ON DRAWING
SEE ARCH DWGS.	FLOOR DRAIN	0.0				SH-1 FLOOR DRAIN, SIZE AS PER DWGS.
SH-1	SHOWER			12.0	12.0	MIXING VALVE
SH-2	SHOWER - PENALWARE			12.0	12.0	MIXING VALVE
SS-1	COUNTERTOP SINK	38.0	32.0	12.0	12.0	SINGLE BOWL, BARRIER FREE, STAINLESS STEEL
SS-2	COUNTERTOP SINK	38.0	32.0	12.0	12.0	SINGLE BOWL, BARRIER FREE, STAINLESS STEEL
SS-3	COUNTERTOP SINK	38.0	32.0	12.0	12.0	SINGLE BOWL, BARRIER FREE, STAINLESS STEEL
SS-4	COUNTERTOP SINK	38.0	32.0	12.0	12.0	LAUNDRY TUB, STAINLESS STEEL
WC-1	WATER CLOSET	75.0	38.0	12.0		FLUSH TANK
WC-2	WATER CLOSET	75.0	38.0	12.0		BARRIER FREE, FLUSH TANK



**SNC-LAVALIN**  
SNC-LAVALIN Inc.  
Halifax, Nova Scotia, Canada  
ISO 9001  
Member of the SNC-LAVALIN Group

NOTES

C01	ISSUED FOR TENDER	18 JUL 2014
NO.	REVISION	DATE



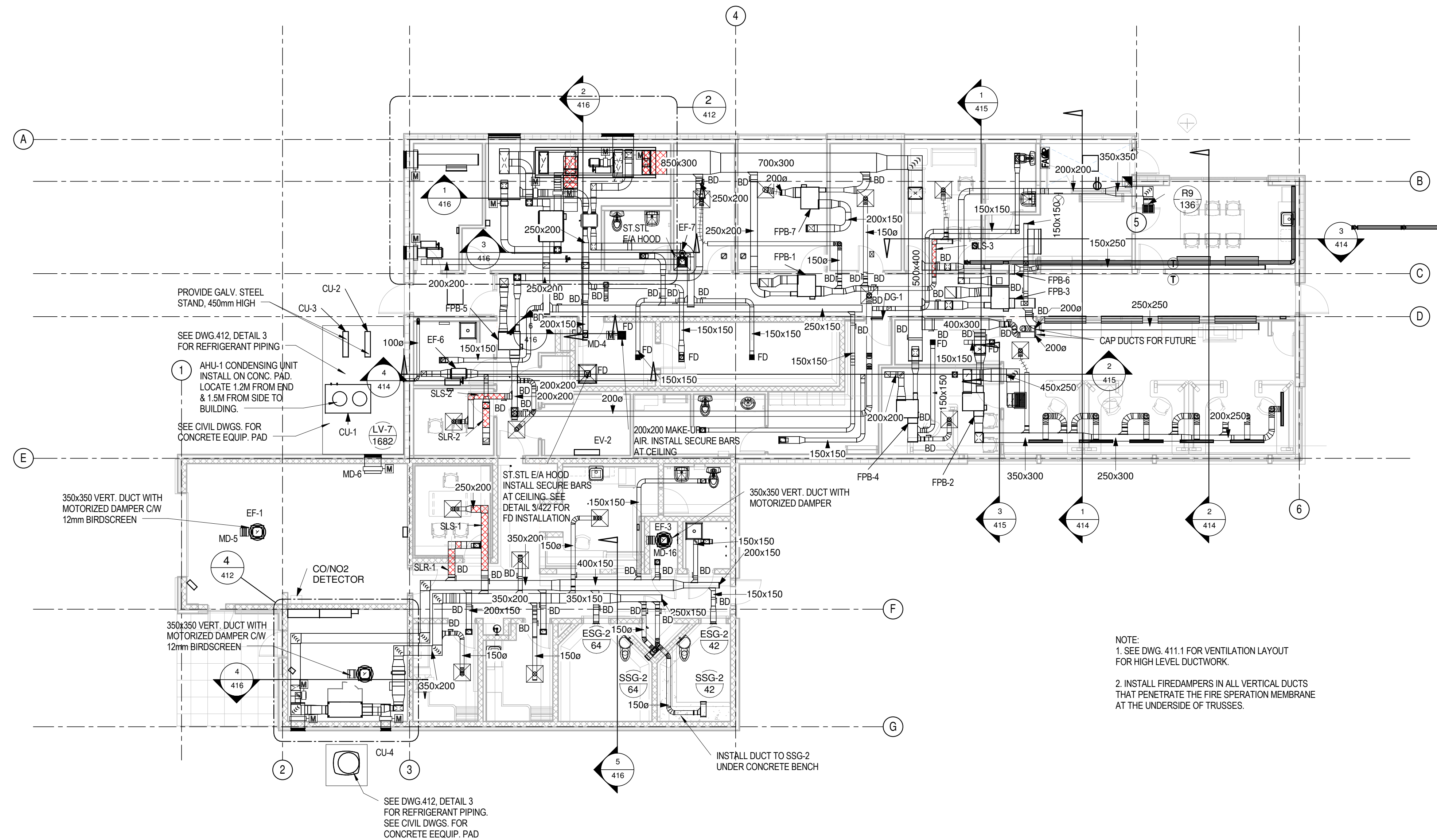
INGONISH CIVIC BUILDING  
INGONISH, NS

DSRA JOB #: 12169  
DRAWN BY: CDA  
CHECKED BY: PG  
SCALE: N.T.S.

PLUMBING DETAILS & FIXTURE SCHEDULE

403

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PROVIDE GALV. STEEL STAND, 450mm HIGH

SEE DWG. 412, DETAIL 3 FOR REFRIGERANT PIPING

AHU-1 CONDENSING UNIT INSTALL ON CONC. PAD LOCATE 1.2M FROM END & 1.5M FROM SIDE TO BUILDING.

SEE CIVIL DWGS. FOR CONCRETE EQUIP. PAD

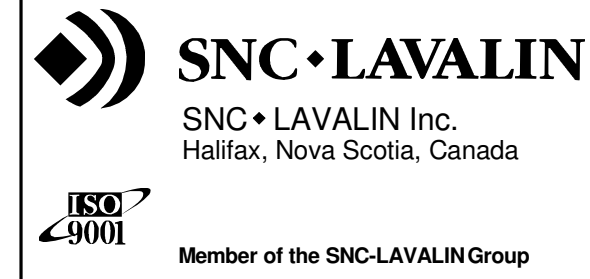
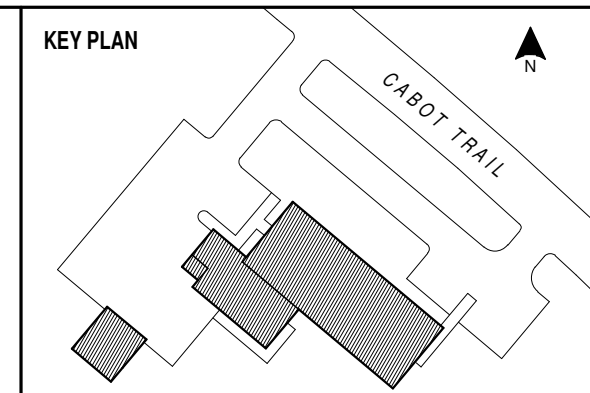
350x350 VERT. DUCT WITH MOTORIZED DAMPER C/W 12mm BIRDSCREEN

350x350 VERT. DUCT WITH MOTORIZED DAMPER C/W 12mm BIRDSCREEN

SEE DWG. 412, DETAIL 3 FOR REFRIGERANT PIPING. SEE CIVIL DWGS. FOR CONCRETE EQUIP. PAD

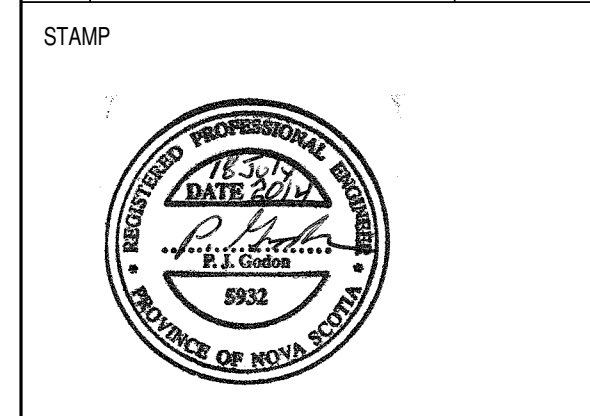
NOTE:  
 1. SEE DWG. 411.1 FOR VENTILATION LAYOUT FOR HIGH LEVEL DUCTWORK.  
 2. INSTALL FIREDAMPERS IN ALL VERTICAL DUCTS THAT PENETRATE THE FIRE SPERATION MEMBRANE AT THE UNDERSIDE OF TRUSSES.

**1** Low Level Ventilation Layout  
 411 SCALE: 1:100



NOTES

NO.	REVISION	DATE
002	ISSUED FOR TENDER	18 JUL 2014



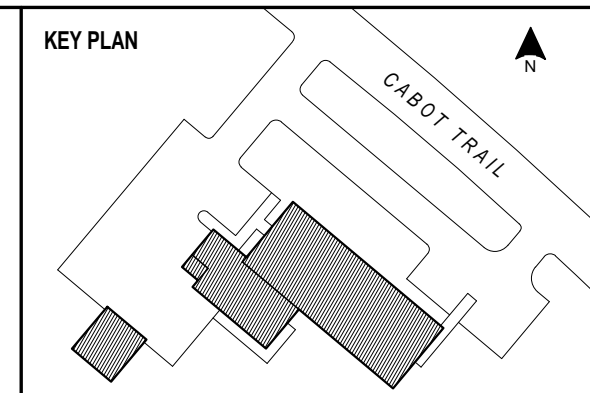
INGONISH CIVIC BUILDING  
 INCONISH, NS

DSRA JOB #: 12169  
 DRAWN BY: CDA  
 CHECKED BY: PG  
 SCALE: 1:100

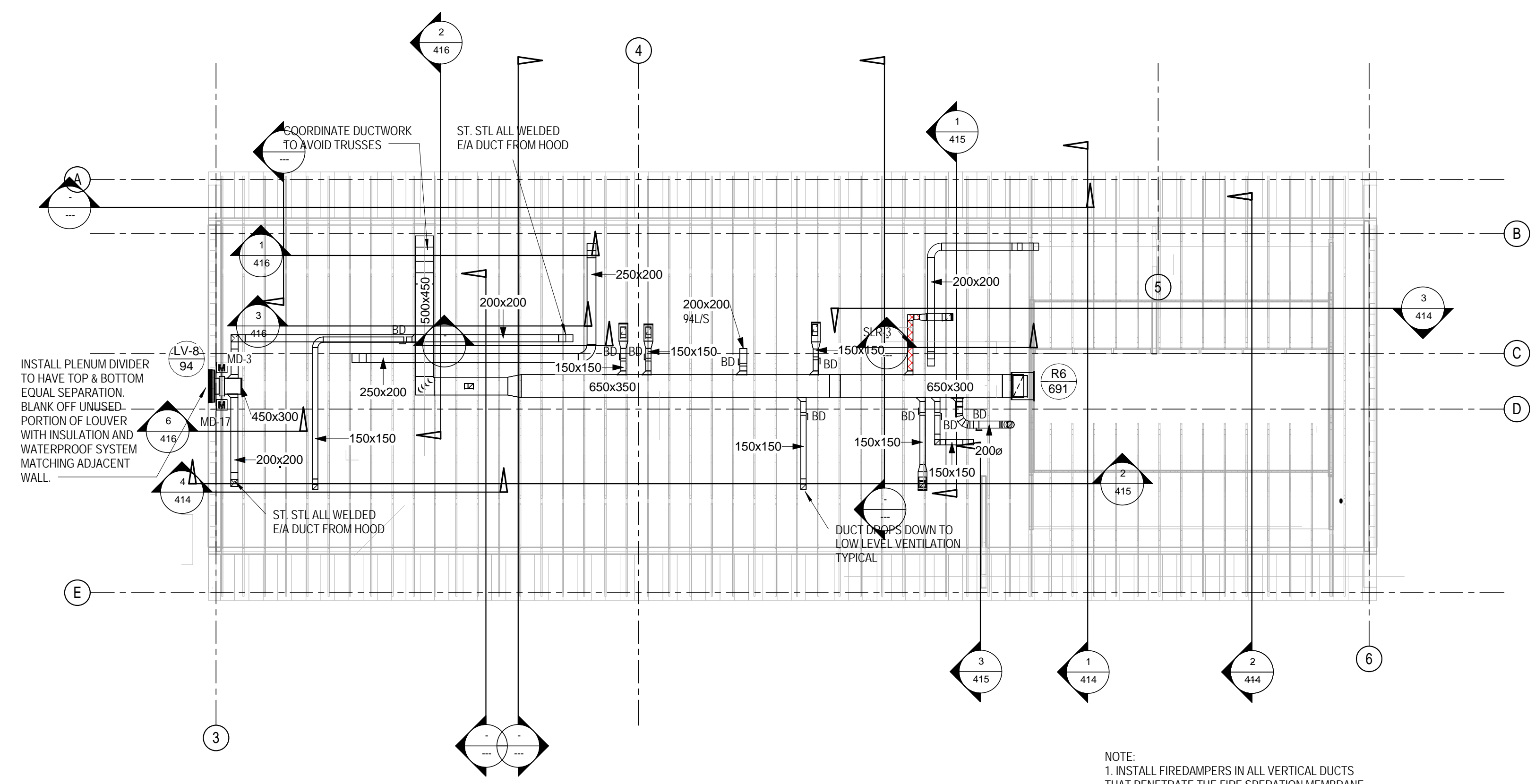
LOW LEVEL VENTILATION LAYOUT

411

615976-0001-D-ME-DWG-0022-01

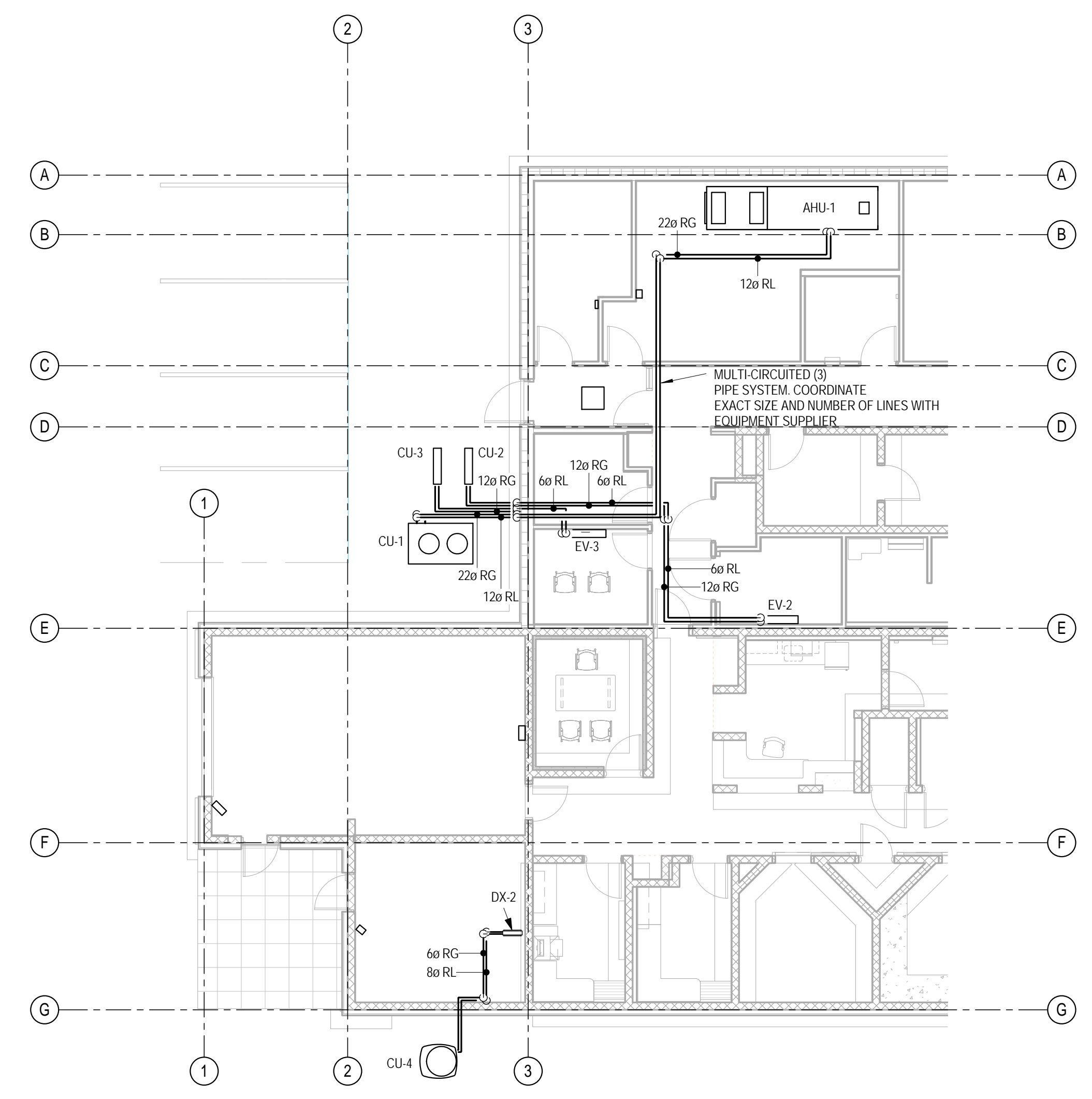


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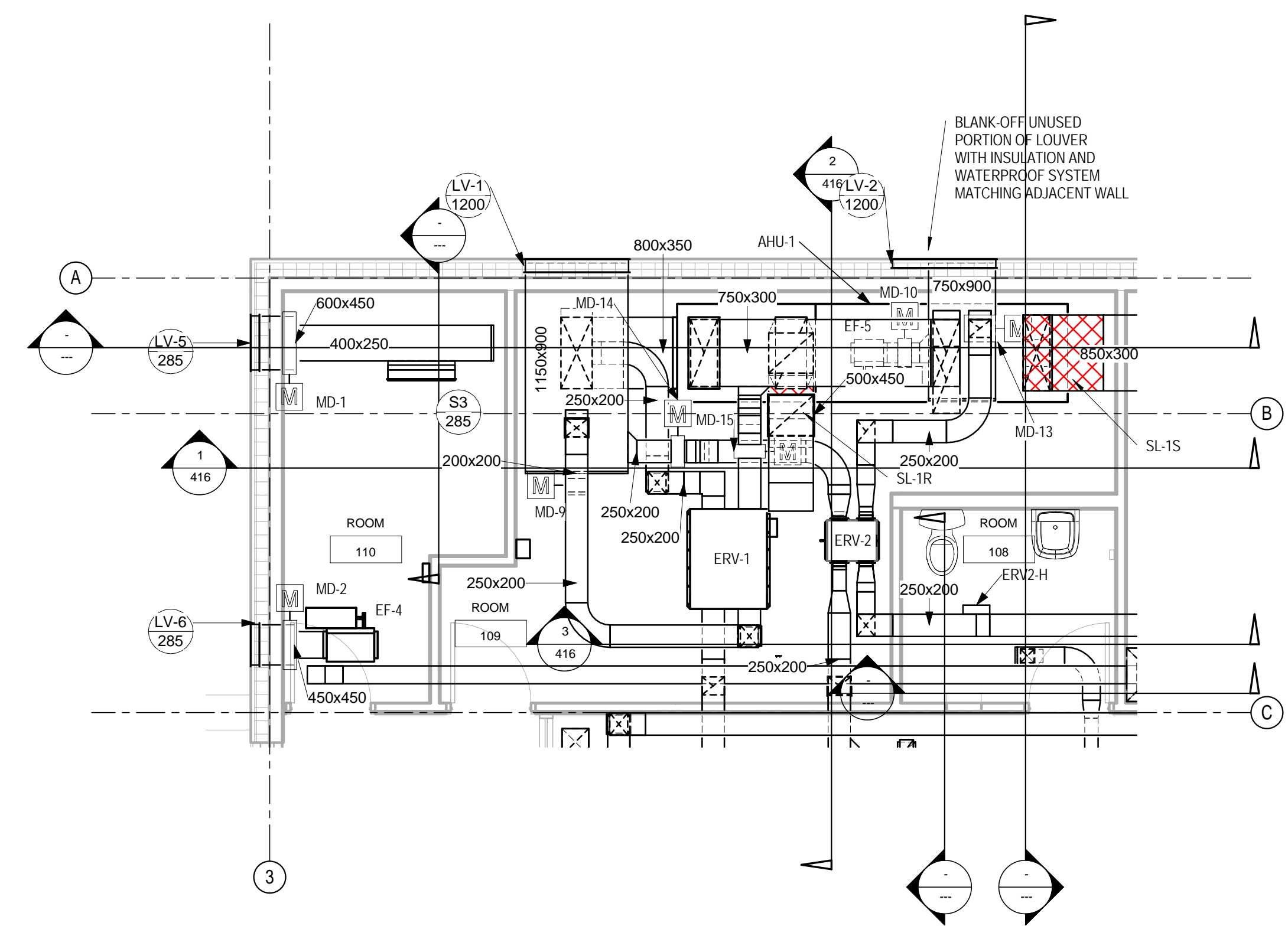


**1 High Level Ventilation Layout**  
 412 SCALE: 1:100

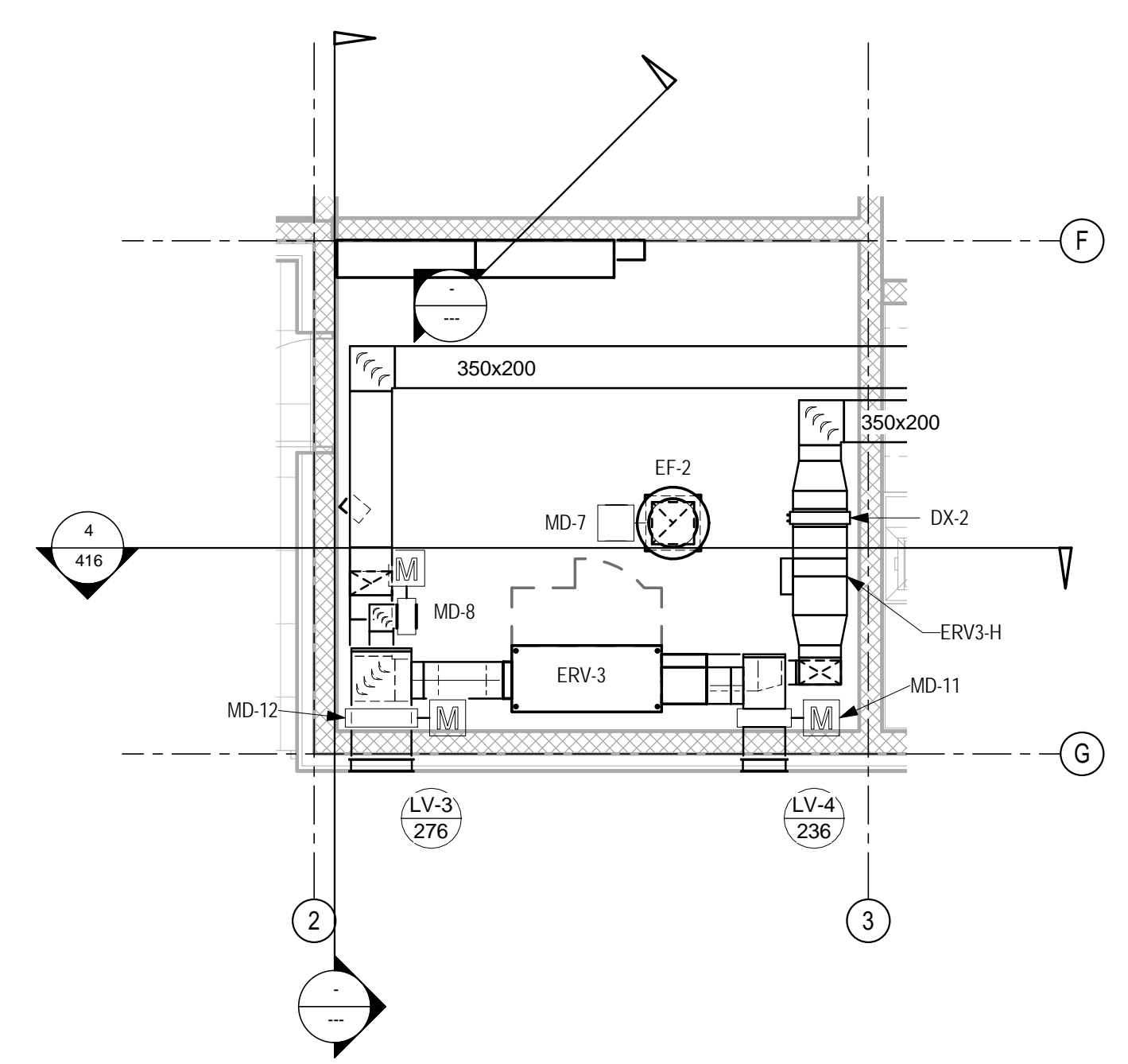
NOTE:  
 1. INSTALL FIRE DAMPERS IN ALL VERTICAL DUCTS THAT PENETRATE THE FIRE SPERATION MEMBRANE AT THE UNDERSIDE OF TRUSSES.



**3 Split Systems Piping Plan**  
 412 SCALE: 1:100

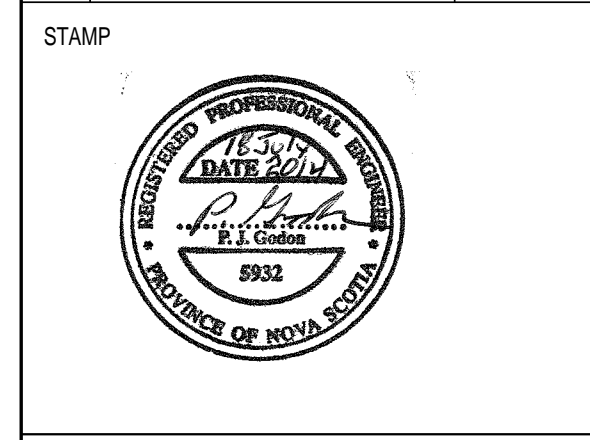


**2 Large Scale Mech. Room**  
 411 SCALE: 1:50



**4 Large Scale Pump Room**  
 412 SCALE: 1:50

CO2	ISSUED FOR TENDER	18 JUL 2014
NO.	REVISION	DATE

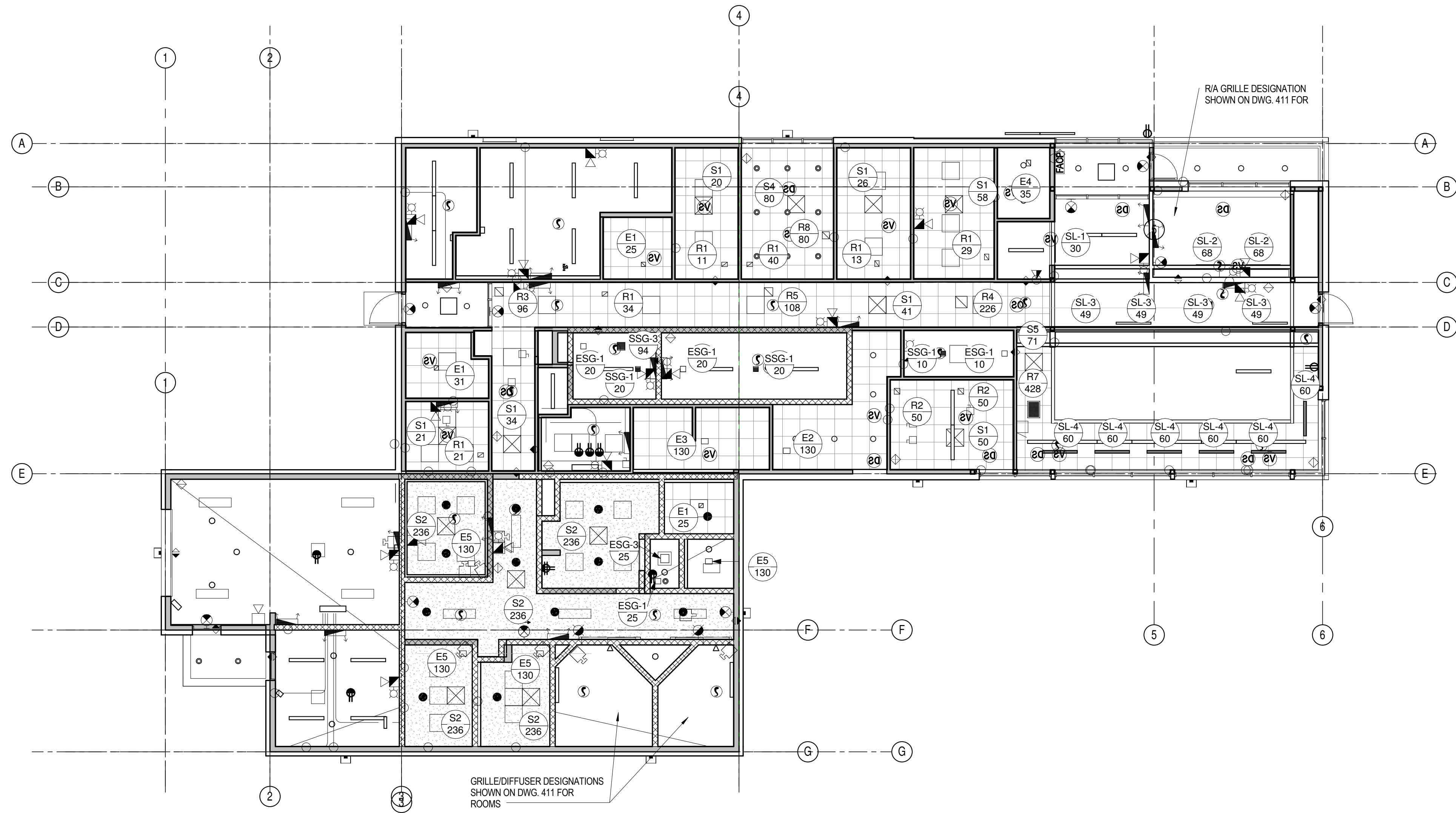


**INGONISH CIVIC BUILDING**  
 INCONISH, NS

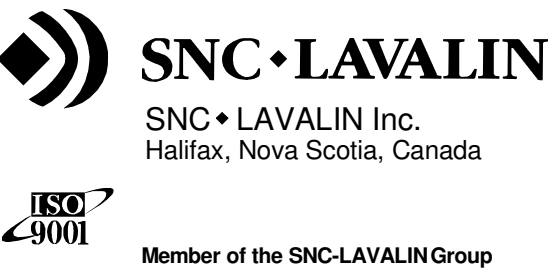
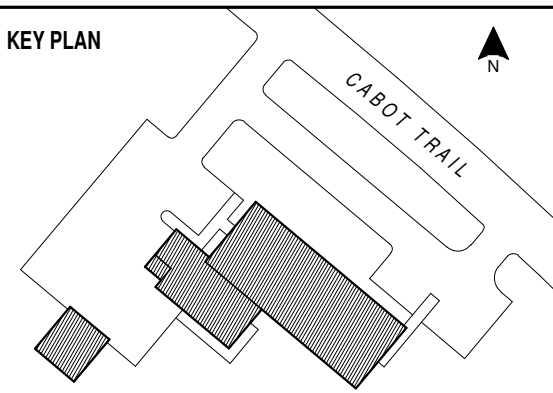
DSRA JOB #: 12169  
 DRAWN BY: CDA  
 CHECKED BY: PG  
 SCALE: As indicated

**HIGH LEVEL VENTILATION, LARGE SCALE MECH. ROOM & SPLIT SYSTEMS PIPING PLAN**

615876-0001-D-ME-CIVIC-006-01

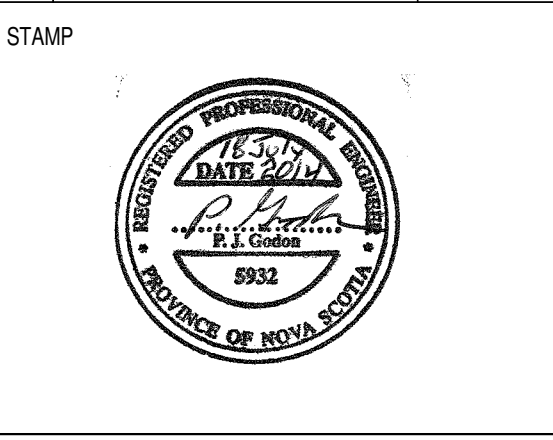


**1** Grille Diffuser Designations  
413 SCALE: 1:100



NOTES

NO.	REVISION	DATE
C01	ISSUED FOR TENDER	18 JUL 2014



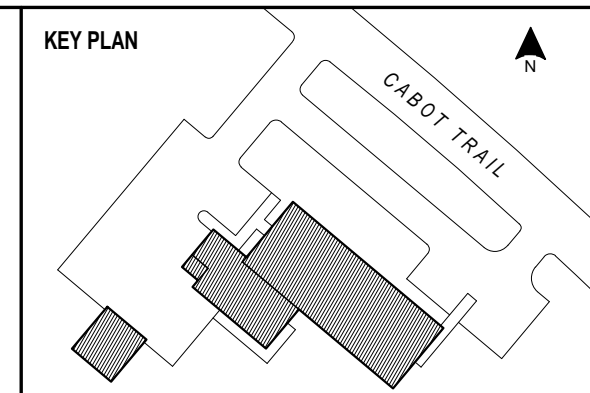
**INGONISH CIVIC BUILDING**  
INGONISH, NS

DSRA JOB #: 12169  
DRAWN BY: CDA  
CHECKED BY: PG  
SCALE: 1:100

**GRILLE DIFFUSER DESIGNATIONS**

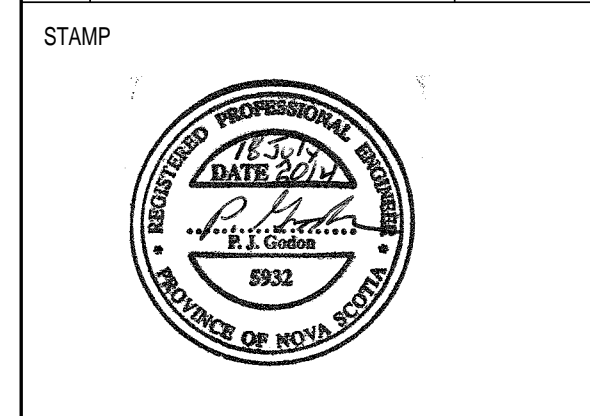
**413**

615976-001-D-ME-CIVIC-006-01



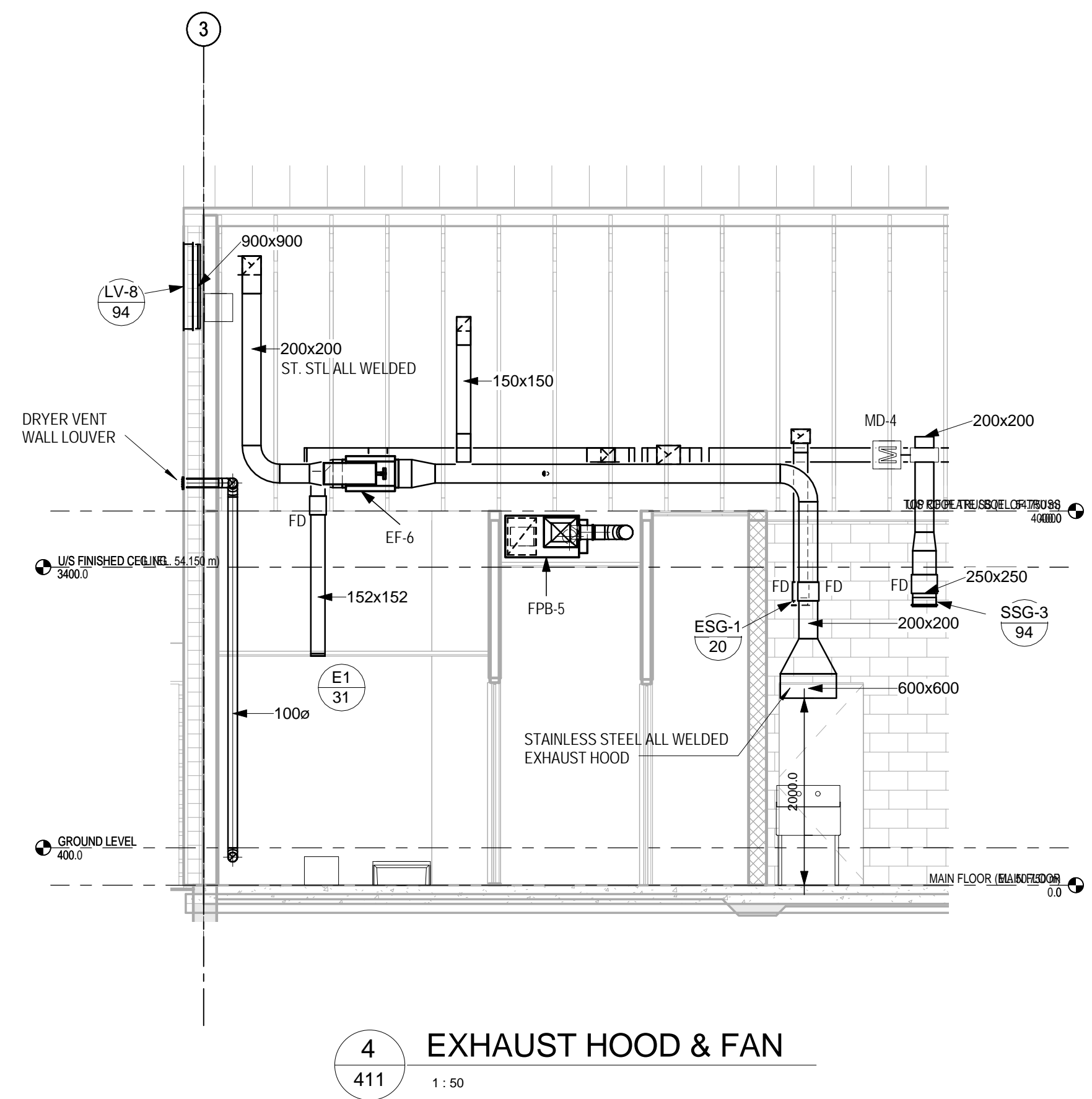
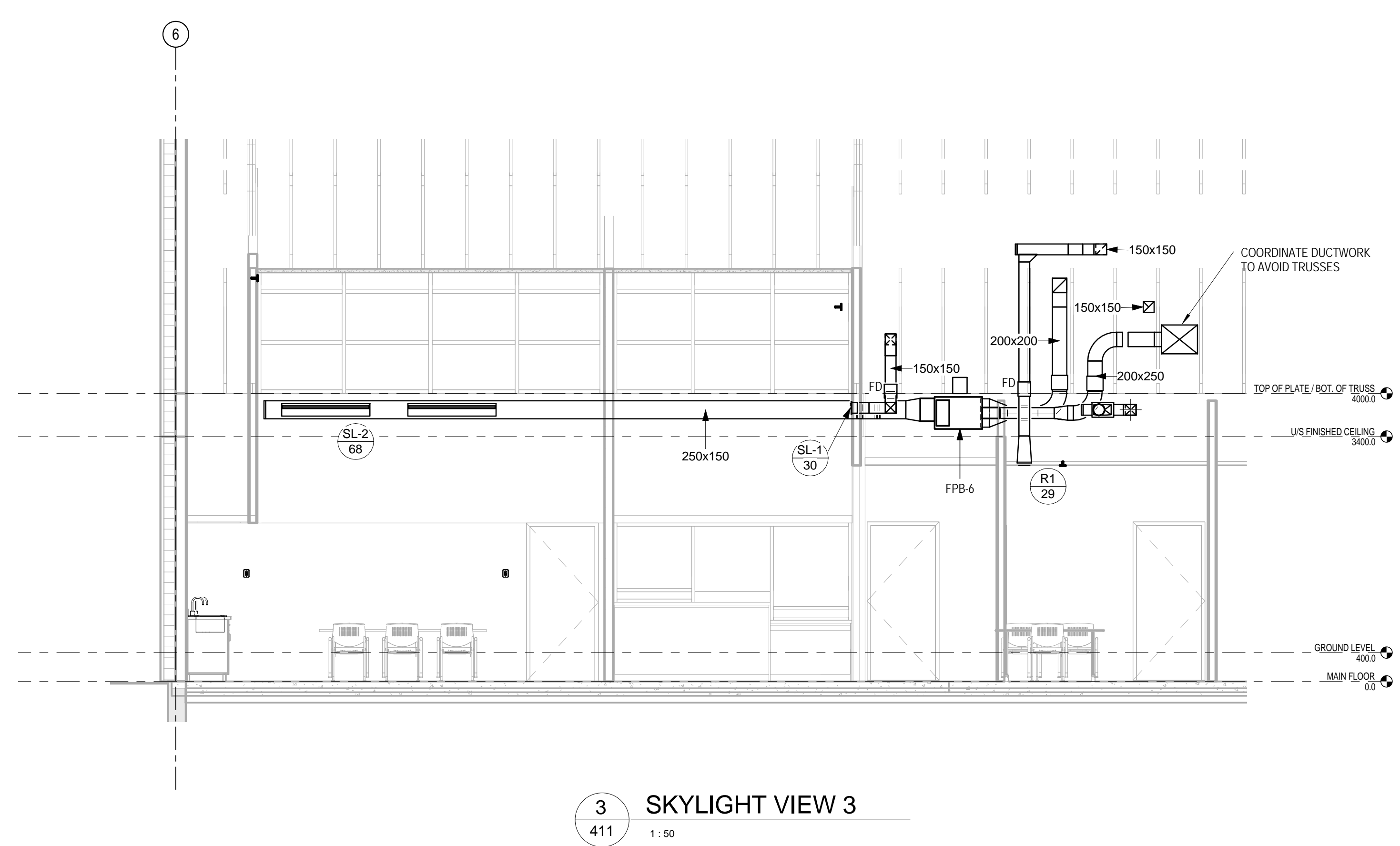
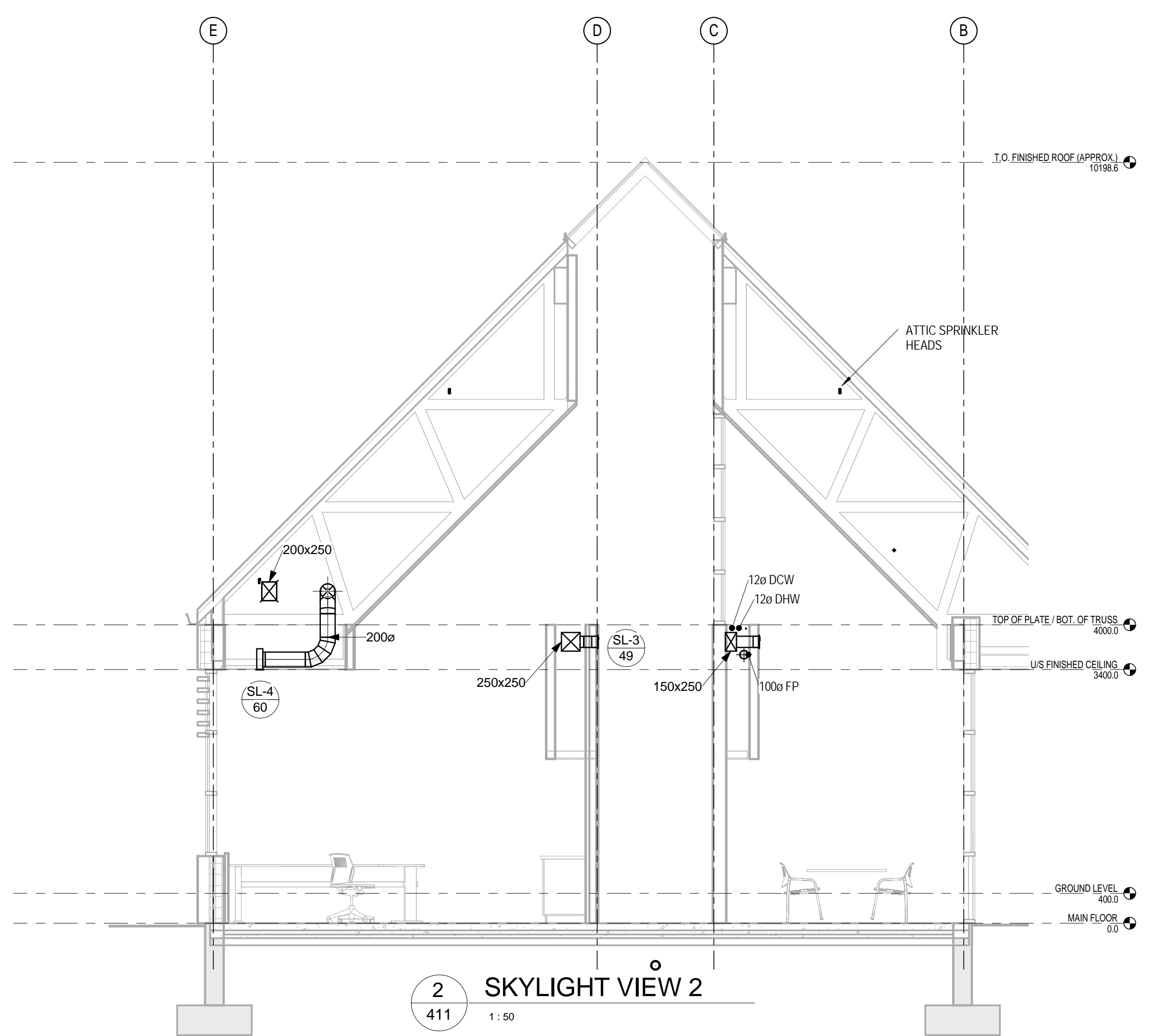
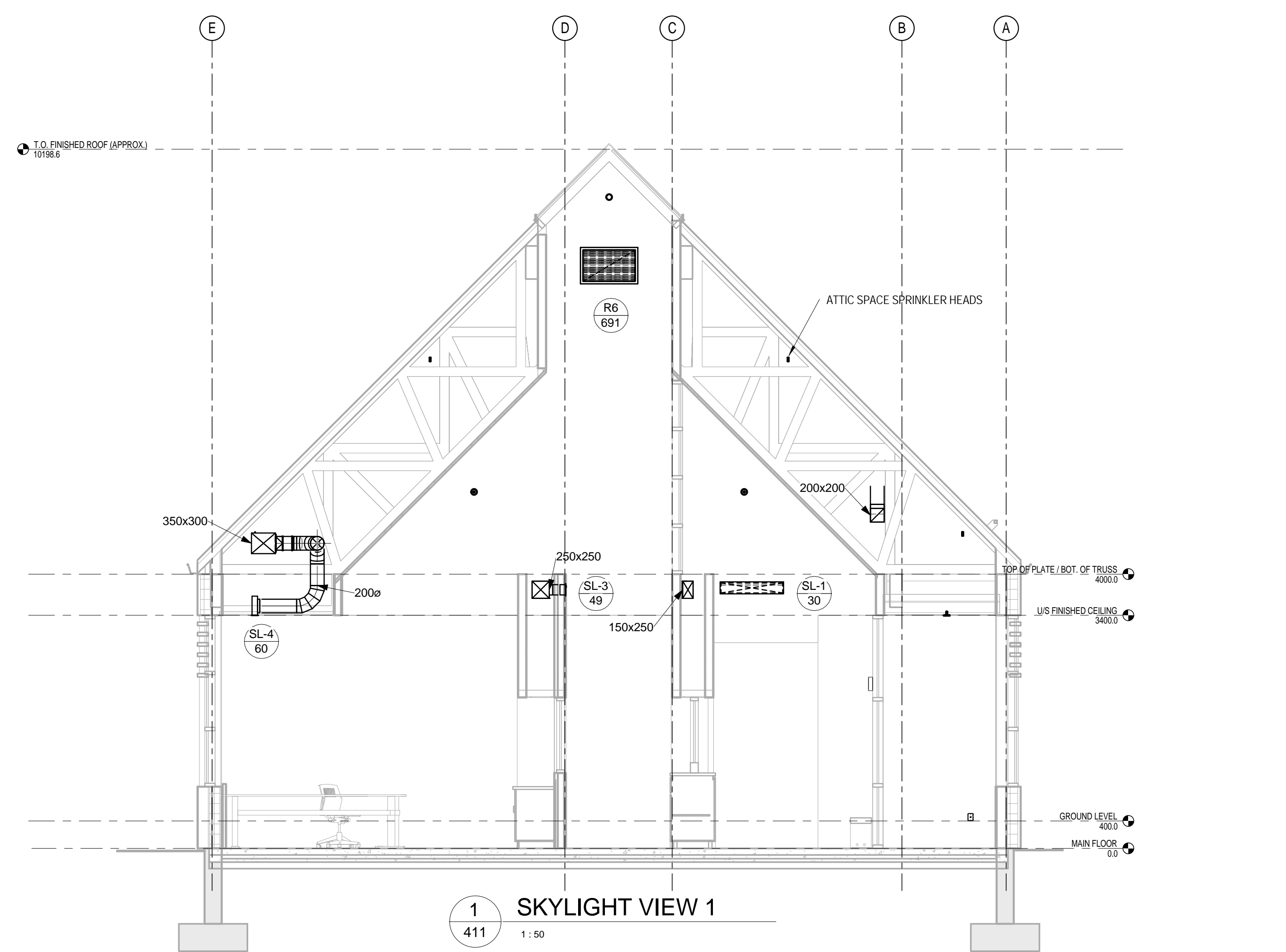
NOTES

CO2	ISSUED FOR TENDER	18 JUL 2014
NO.	REVISION	DATE



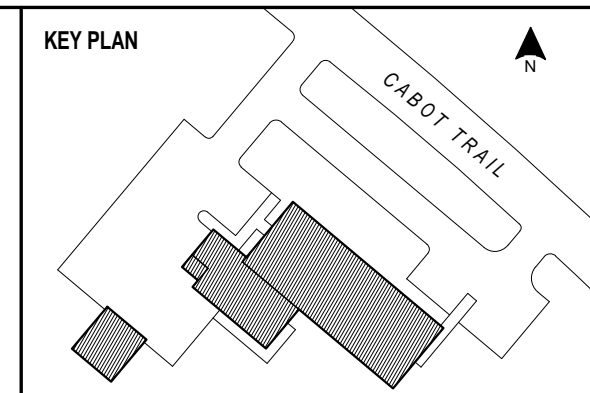
**INGONISH CIVIC BUILDING**  
 INCONISH, NS  
 DSRA JOB #: 12169  
 DRAWN BY: CDA  
 CHECKED BY: PG  
 SCALE: 1:50

**MECHANICAL SECTIONS - SHEET 1**

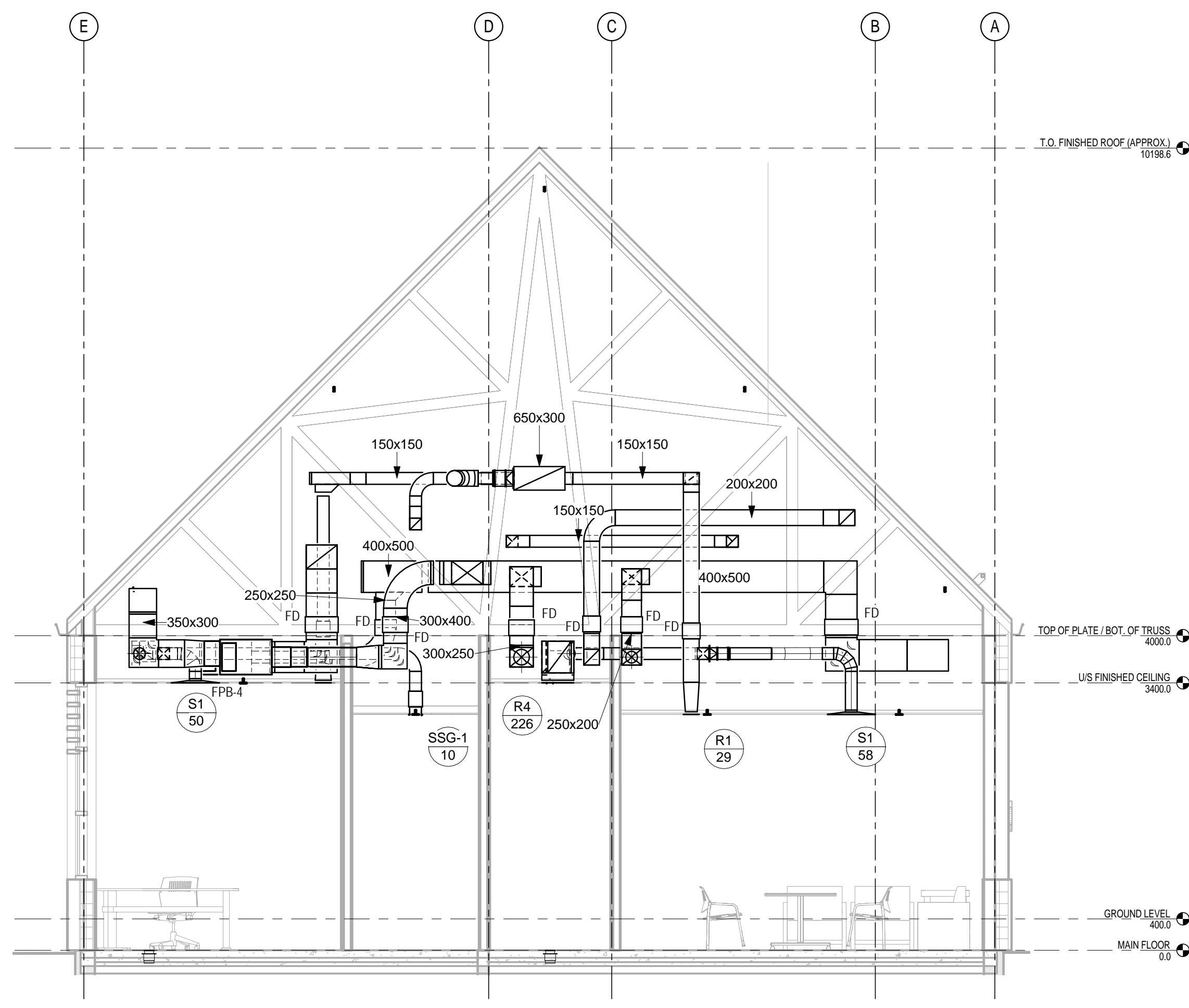


615876-0001-D-ME-014-CIVIC-001-01

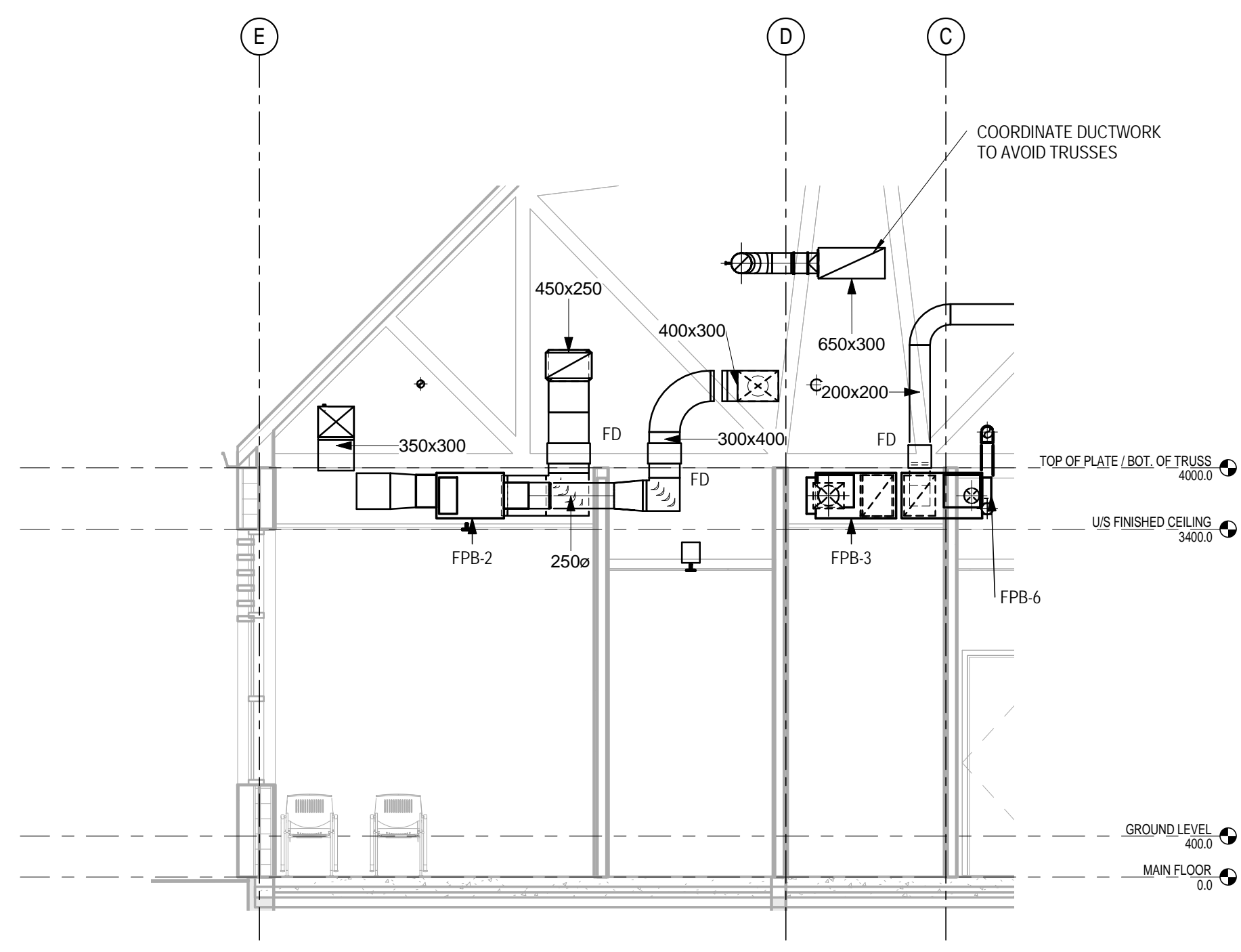




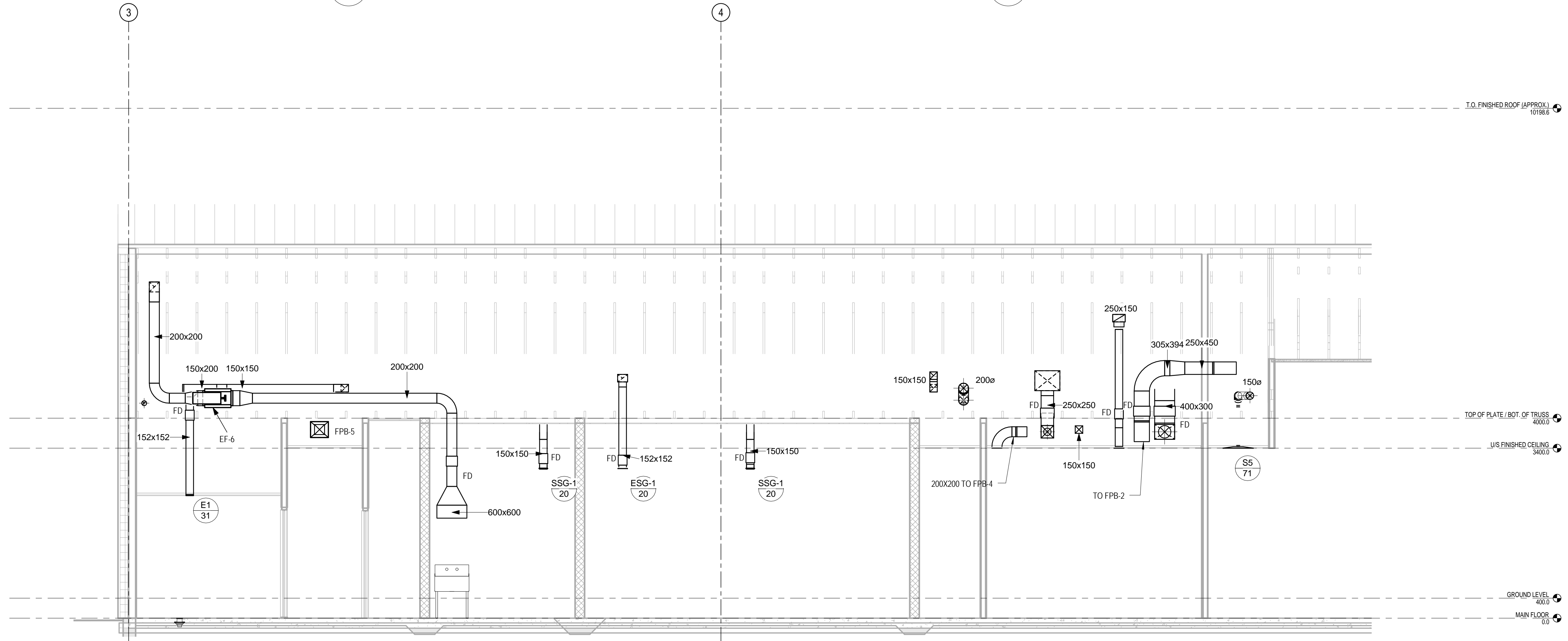
NOTES



**1 MAIN S/A OFFSET**  
 411 1:50

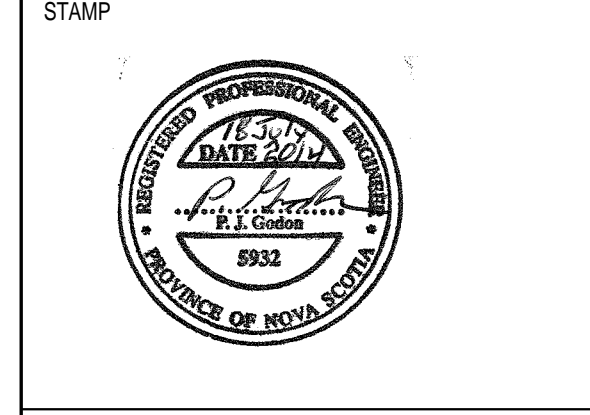


**3 FAN POWERED BOX 2**  
 411 1:50



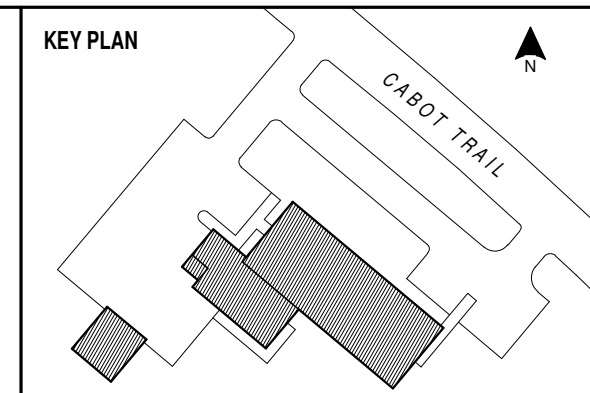
**2 LONGITUDINAL SECTION**  
 411 1:50

NO.	REVISION	DATE
C02	ISSUED FOR TENDER	18 JUL 2014

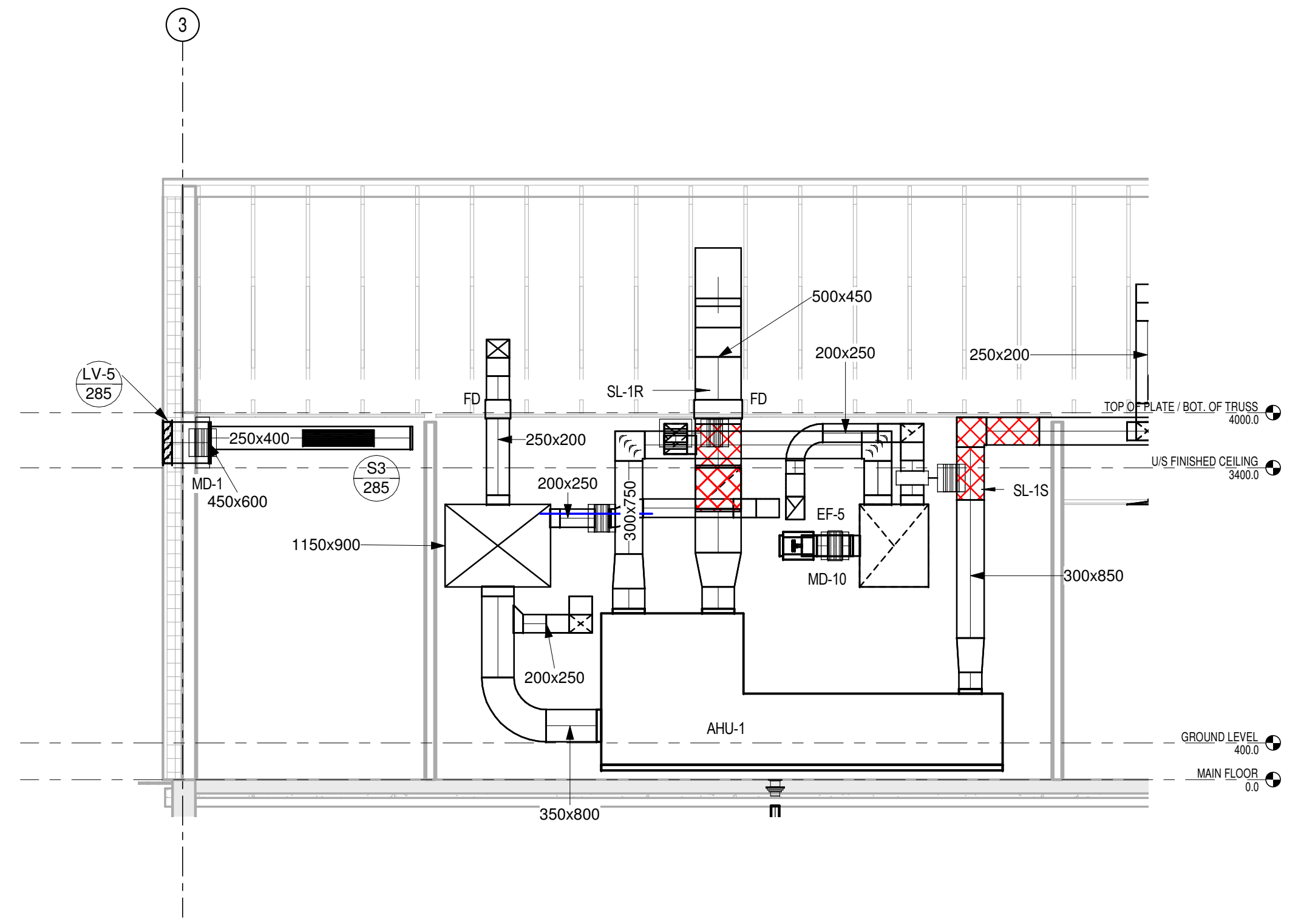


**INGONISH CIVIC BUILDING**  
 INCONISH, NS  
 DSRA JOB #: 12169  
 DRAWN BY: CDA  
 CHECKED BY: PG  
 SCALE: 1:50

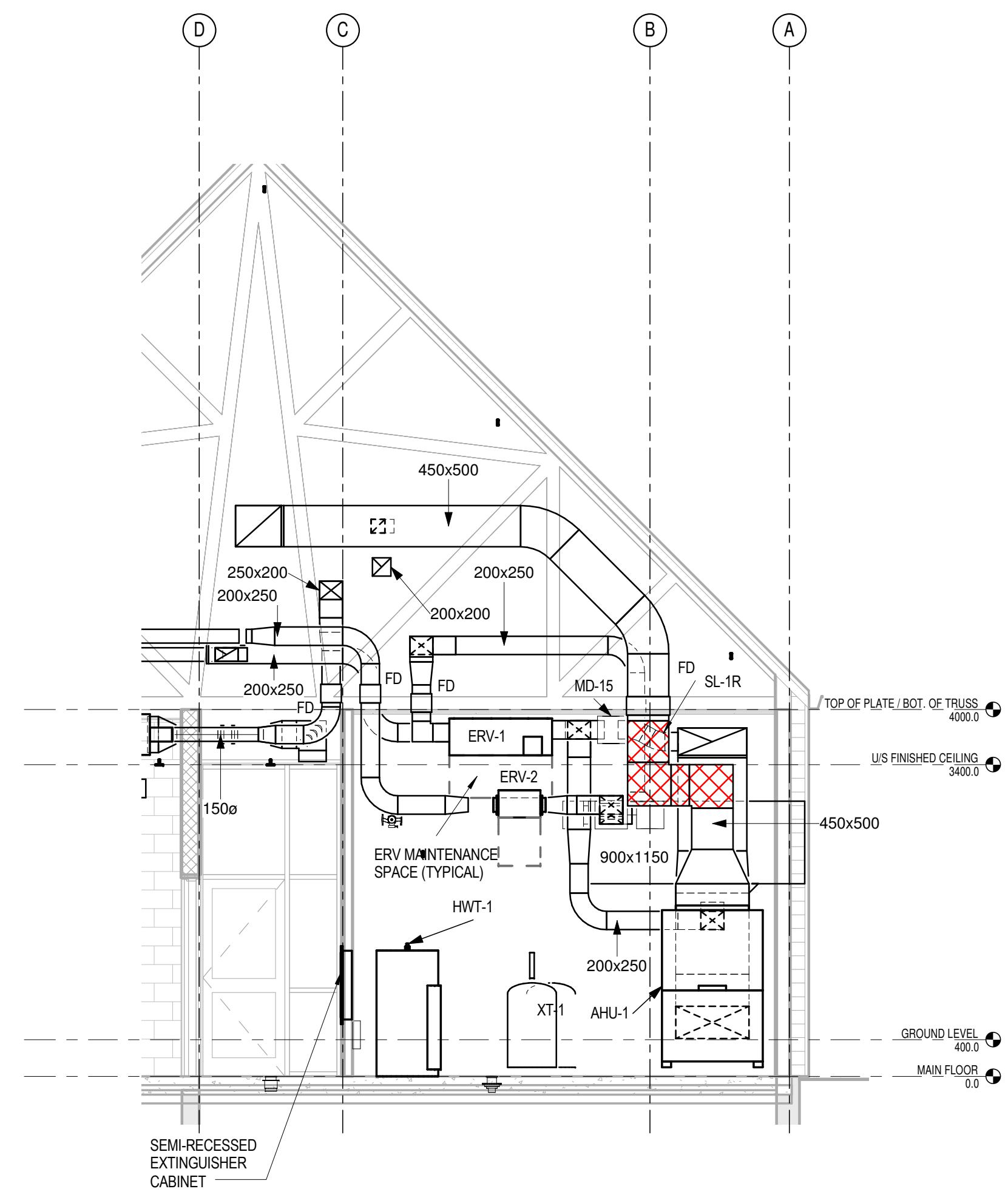
**MECHANICAL SECTIONS - SHEET 2**



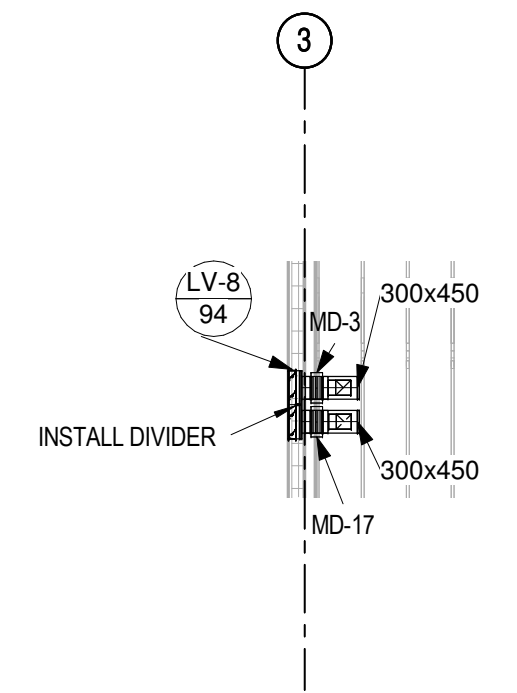
NOTES



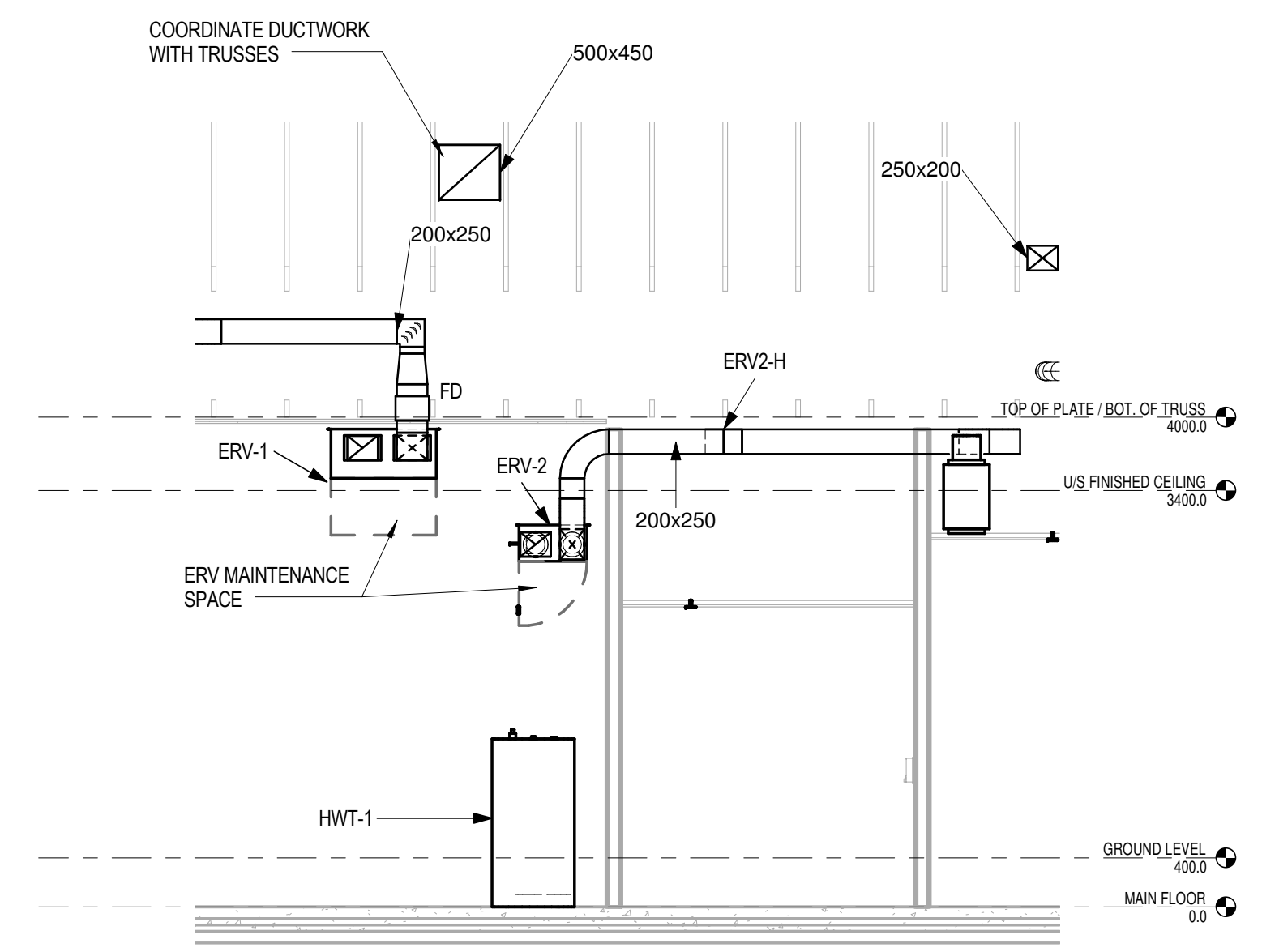
**1 MECH. ROOM AHU-1 SIDE VIEW**  
 411 1:50



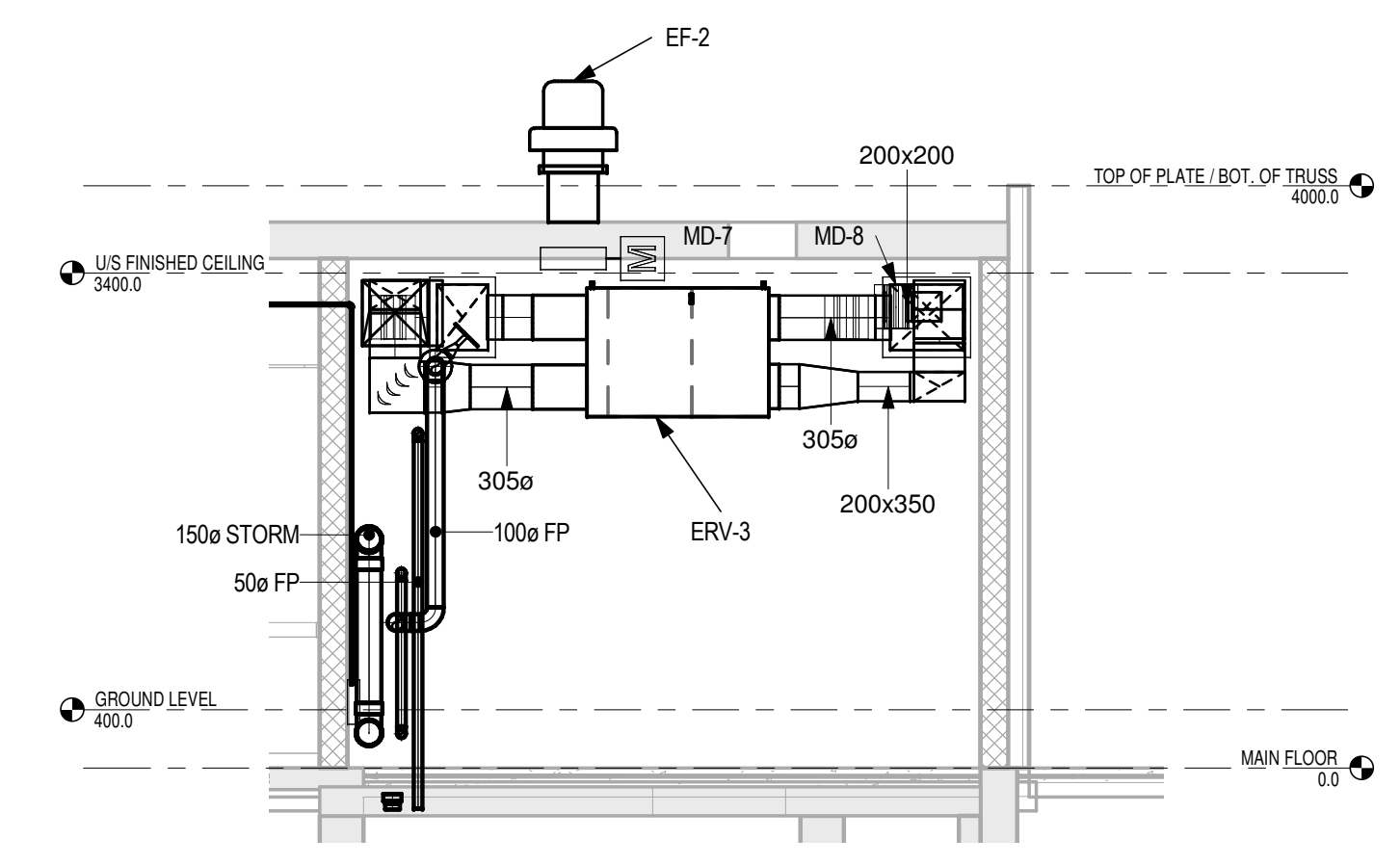
**2 MECH. ROOM ERV-1**  
 411 1:50



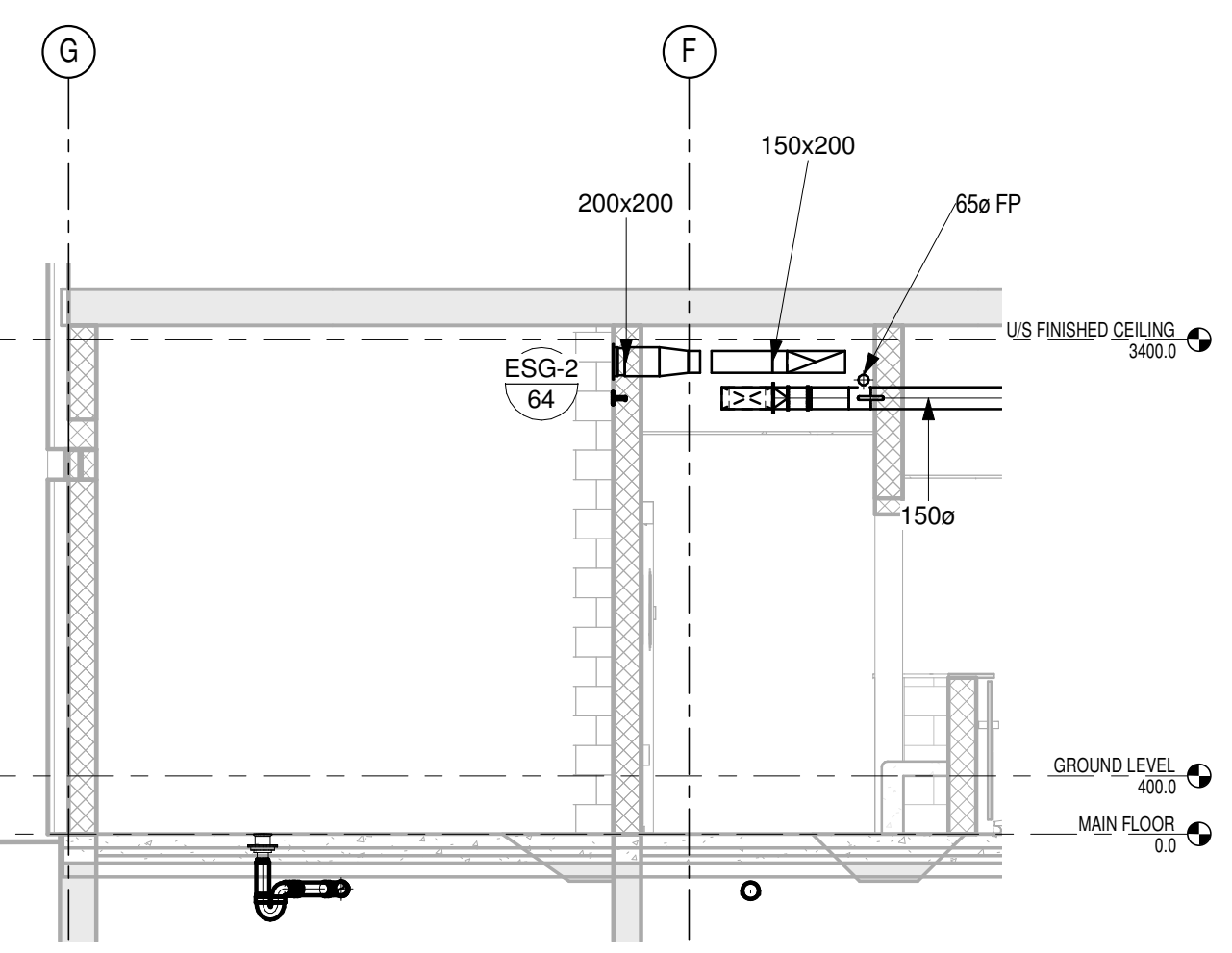
**6 LOUVER # 8 EXHAUST DUCTWORK**  
 416 SCALE: 1:100



**3 MECH. ROOM ERV-1/2**  
 411 1:50

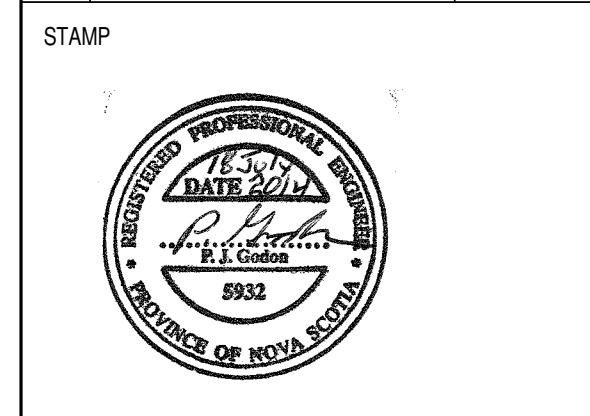


**4 PAVILION ERV-3**  
 411 1:50



**5 ROOM 210**  
 411 1:50

CO2 NO.	ISSUED FOR TENDER	18 JUL 2014
REVISION		DATE

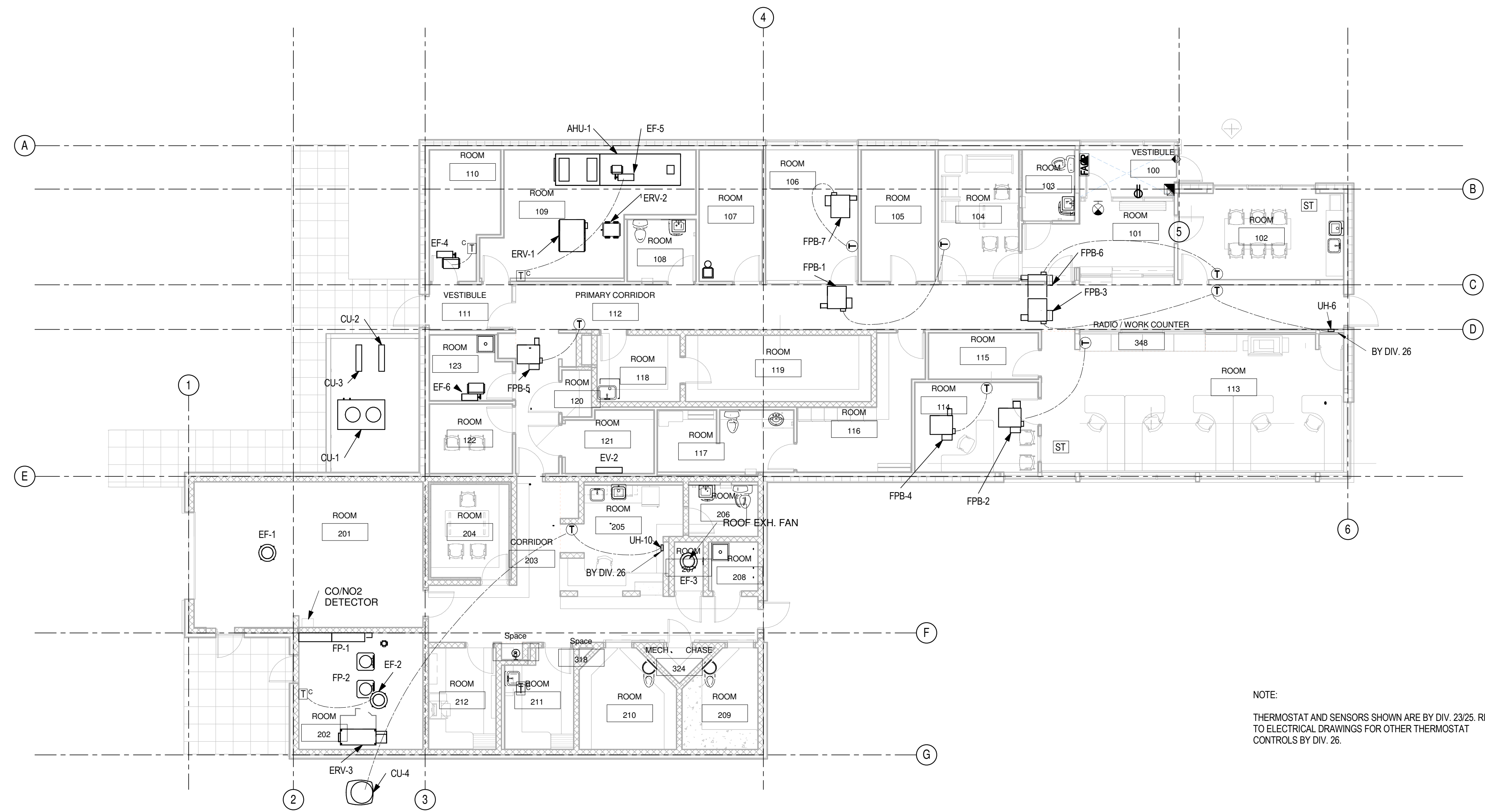


**INGONISH CIVIC BUILDING**  
 INGONISH, NS

DSRA JOB #: 12169  
 DRAWN BY: CDA  
 CHECKED BY: PG  
 SCALE: As indicated

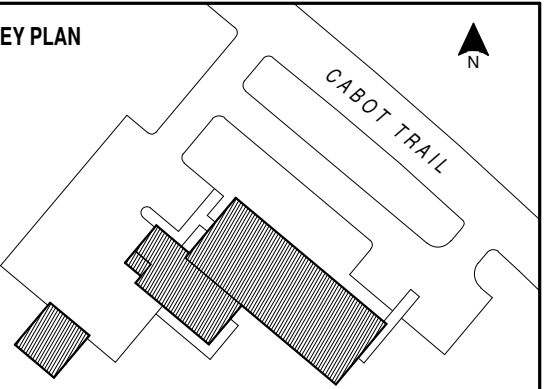
**MECHANICAL SECTIONS - SHEET 3**

615976-0001-D-ME-CIVIC-0006-01



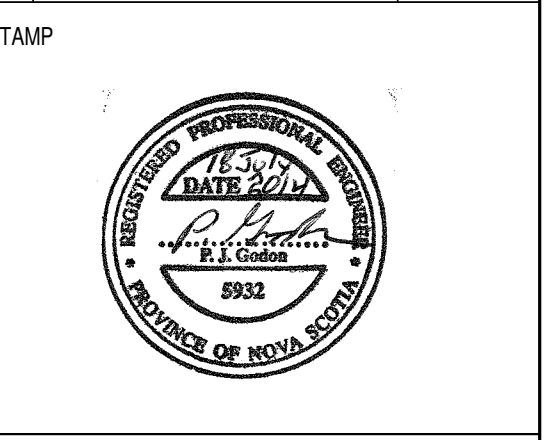
NOTE:  
THERMOSTAT AND SENSORS SHOWN ARE BY DIV. 23/25. REFER  
TO ELECTRICAL DRAWINGS FOR OTHER THERMOSTAT  
CONTROLS BY DIV. 26.

**1** Thermostat Locations  
417 SCALE: 1:100



NOTES

NO.	REVISION	DATE
C01	ISSUED FOR TENDER	18 JUL 2014

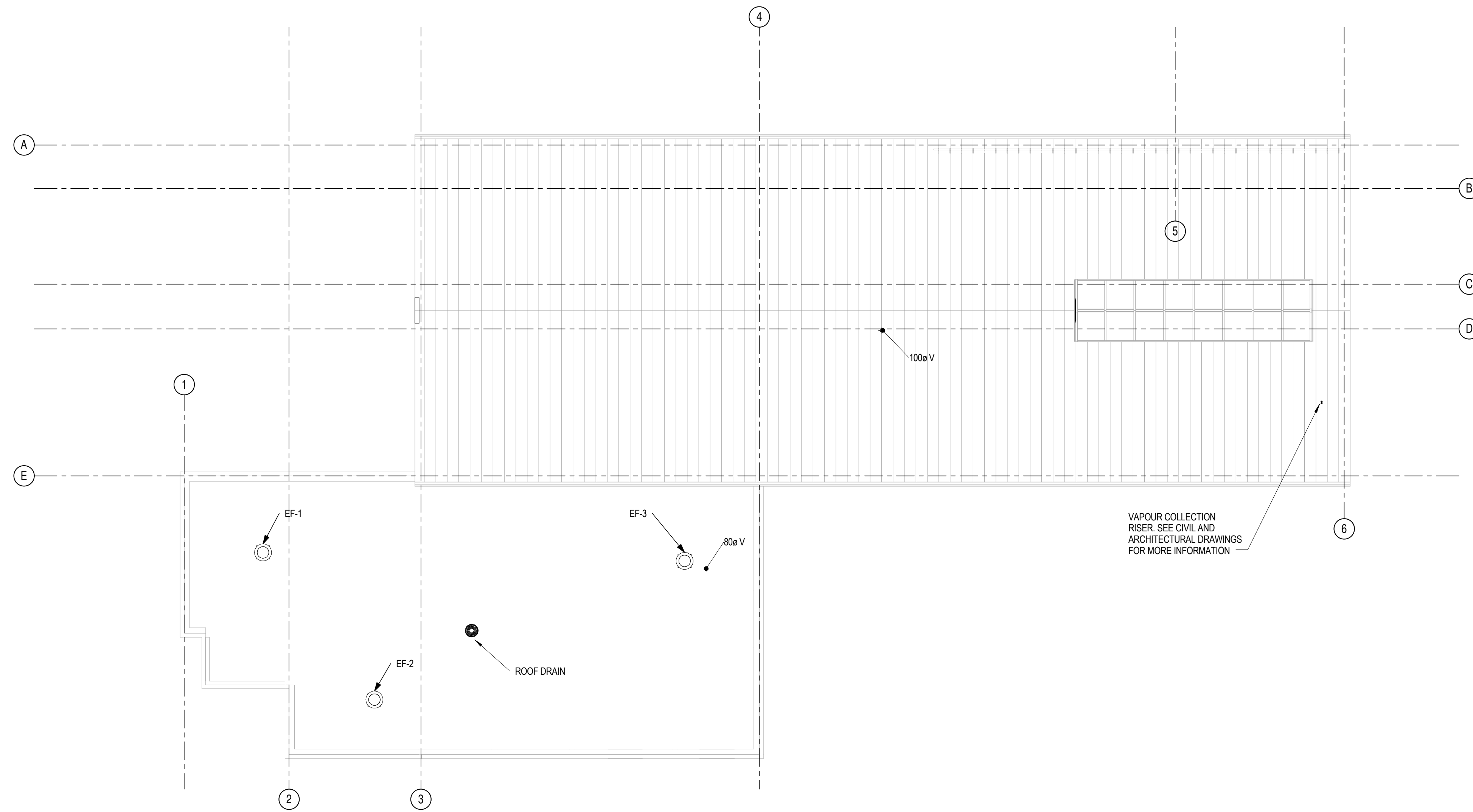


INGONISH CIVIC BUILDING  
INGONISH, NS  
DSRA JOB #: 12169  
DRAWN BY: C.A.  
CHECKED BY: PG  
SCALE: 1:100

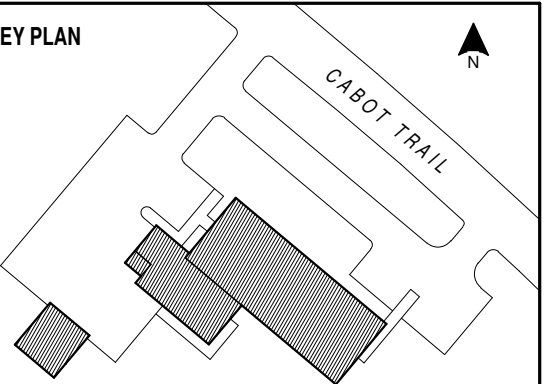
ZONE THERMOSTAT LOCATIONS

417

615976-0001-D-ME-CIVIC-0050-01

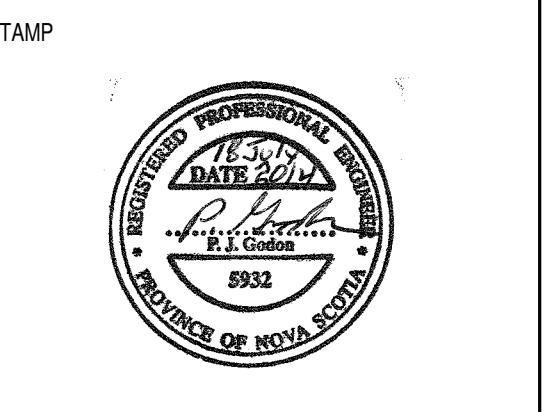


1 T.O. FINISHED ROOF (APPROX.)  
418 SCALE: 1:100



NOTES

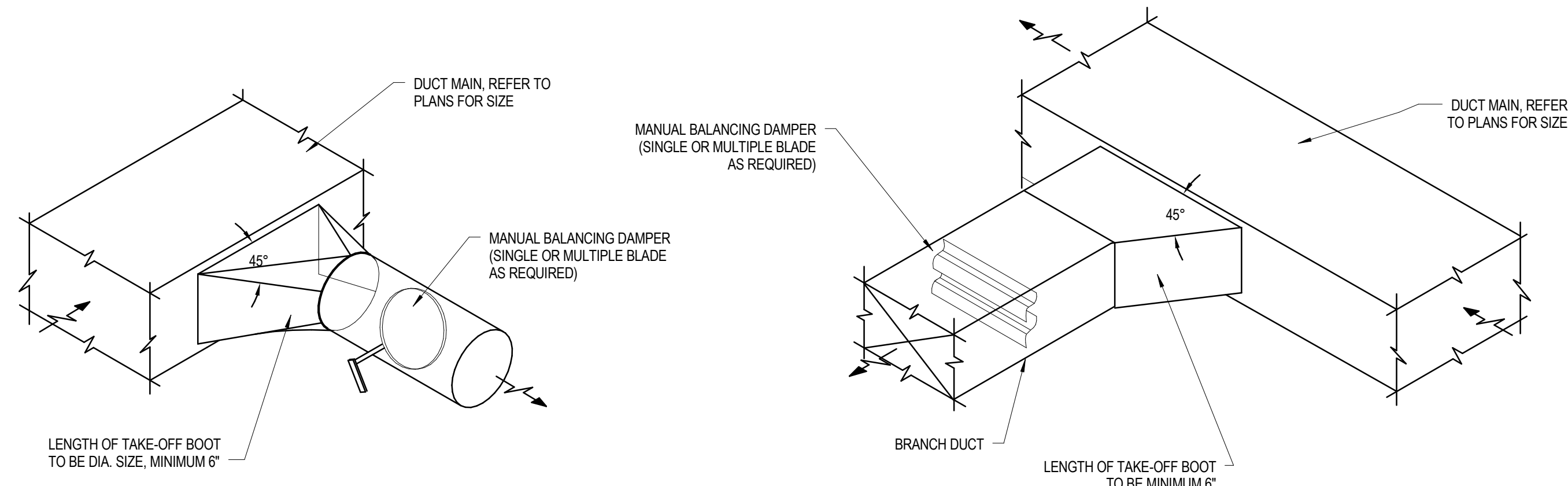
NO.	REVISION	DATE
C01	ISSUED FOR TENDER	18 JUL 2014



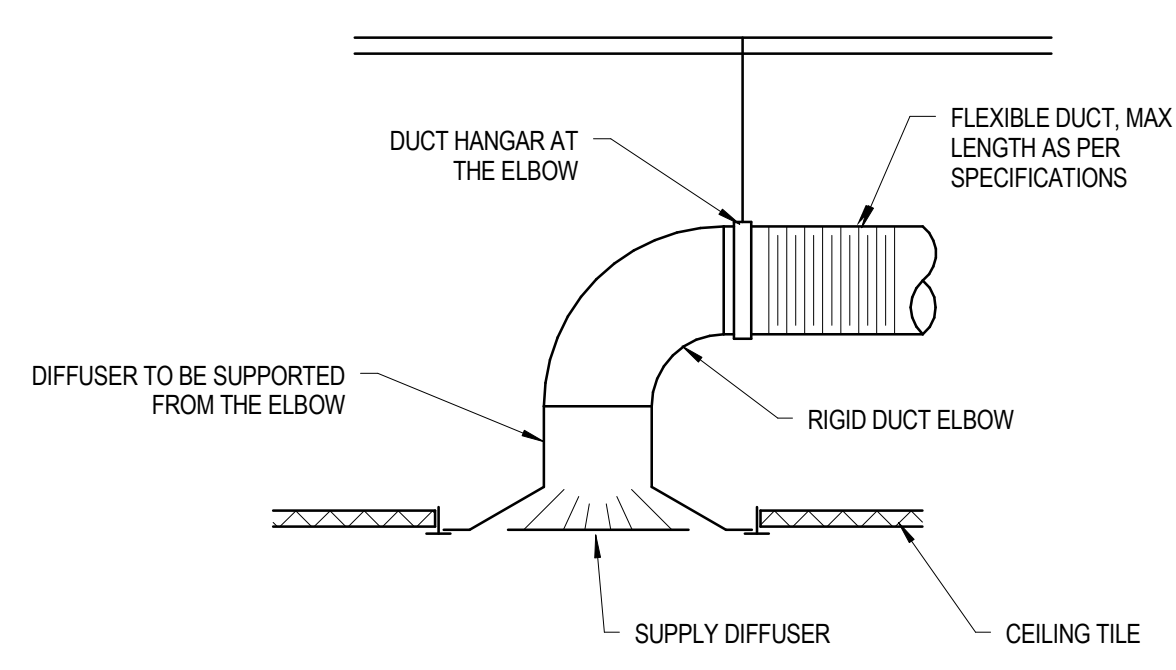
INGONISH CIVIC BUILDING  
INGONISH, NS  
DSRA JOB #: 12169  
DRAWN BY: C.A.  
CHECKED BY: PG  
SCALE: 1:100

MECHANICAL ROOF PLAN

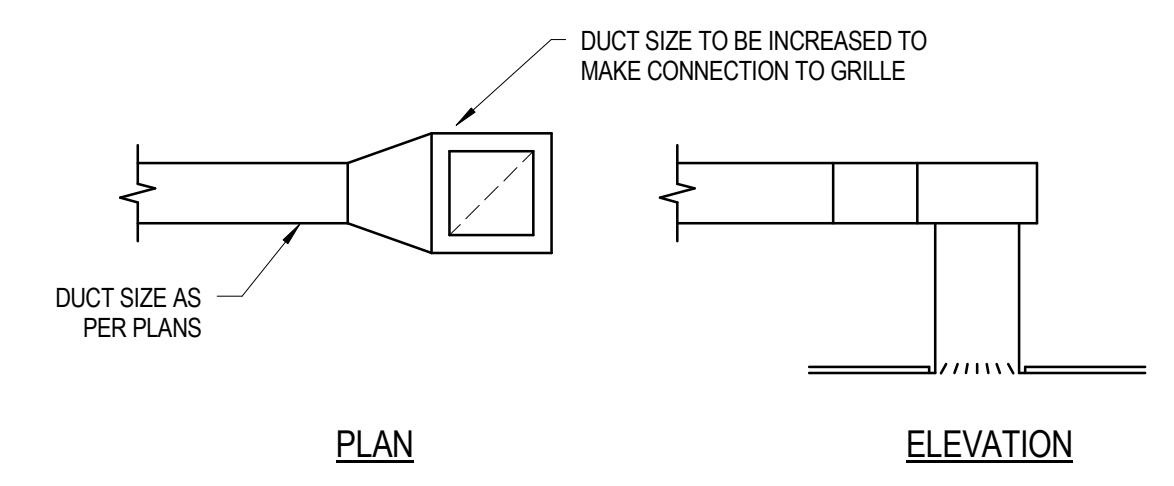
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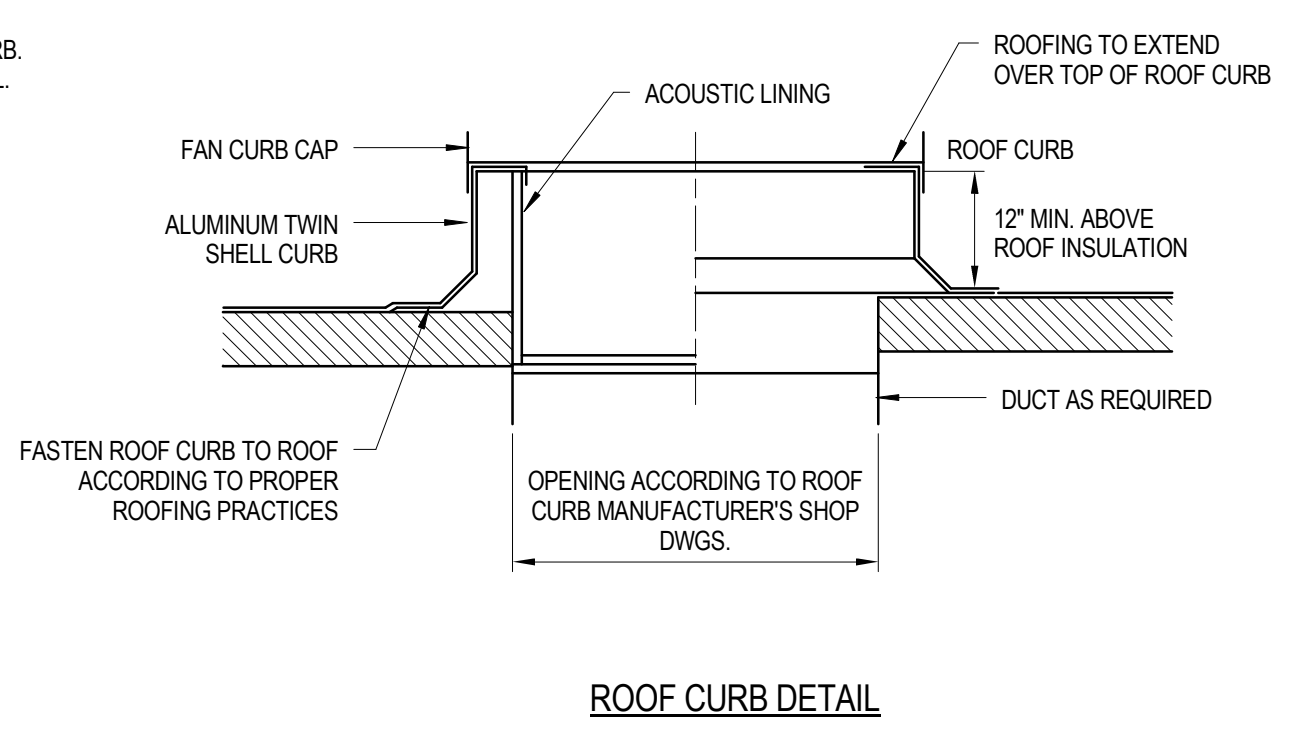
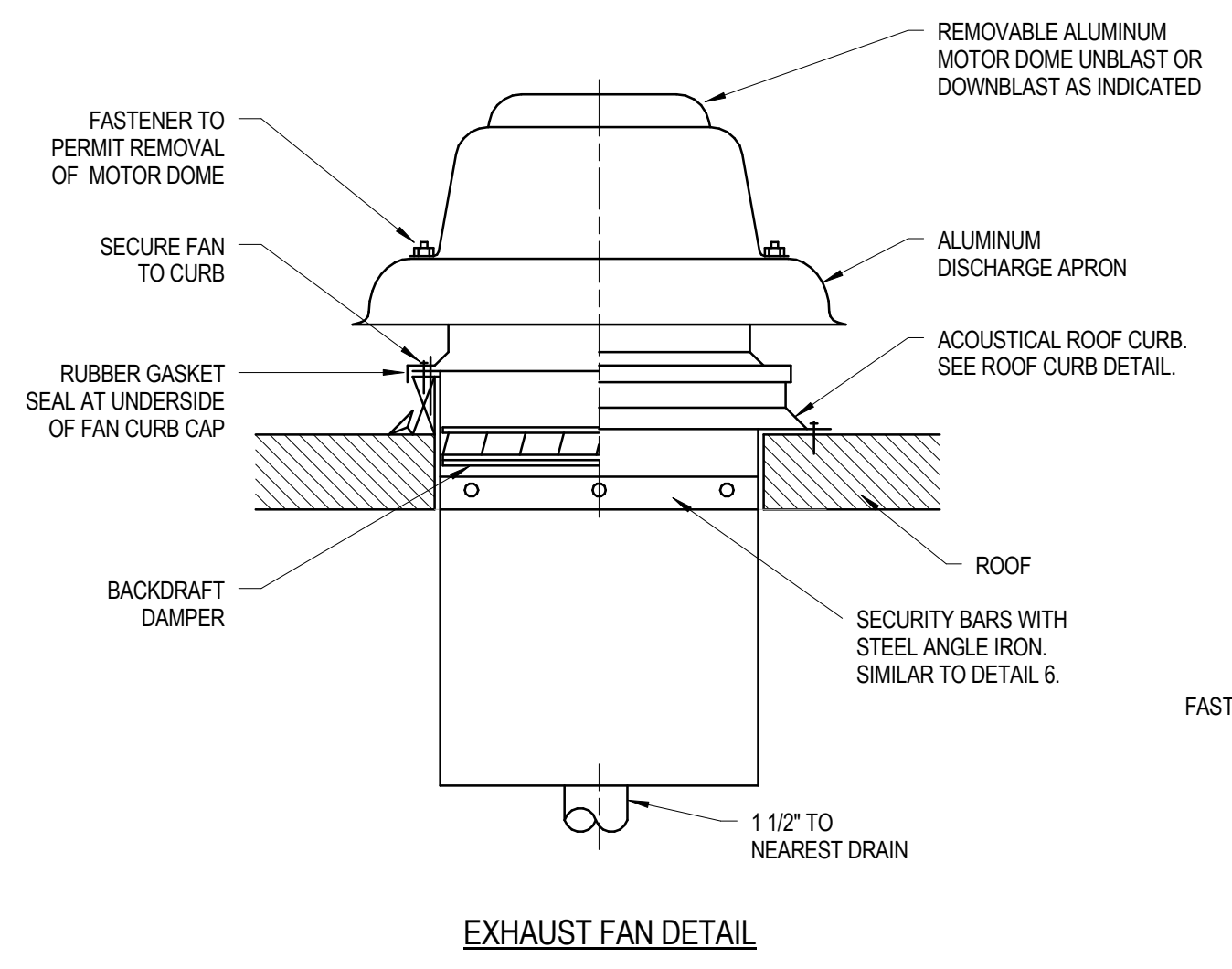
**1 BRANCH DUCT TAKE-OFF**  
421 SCALE: N.T.S.



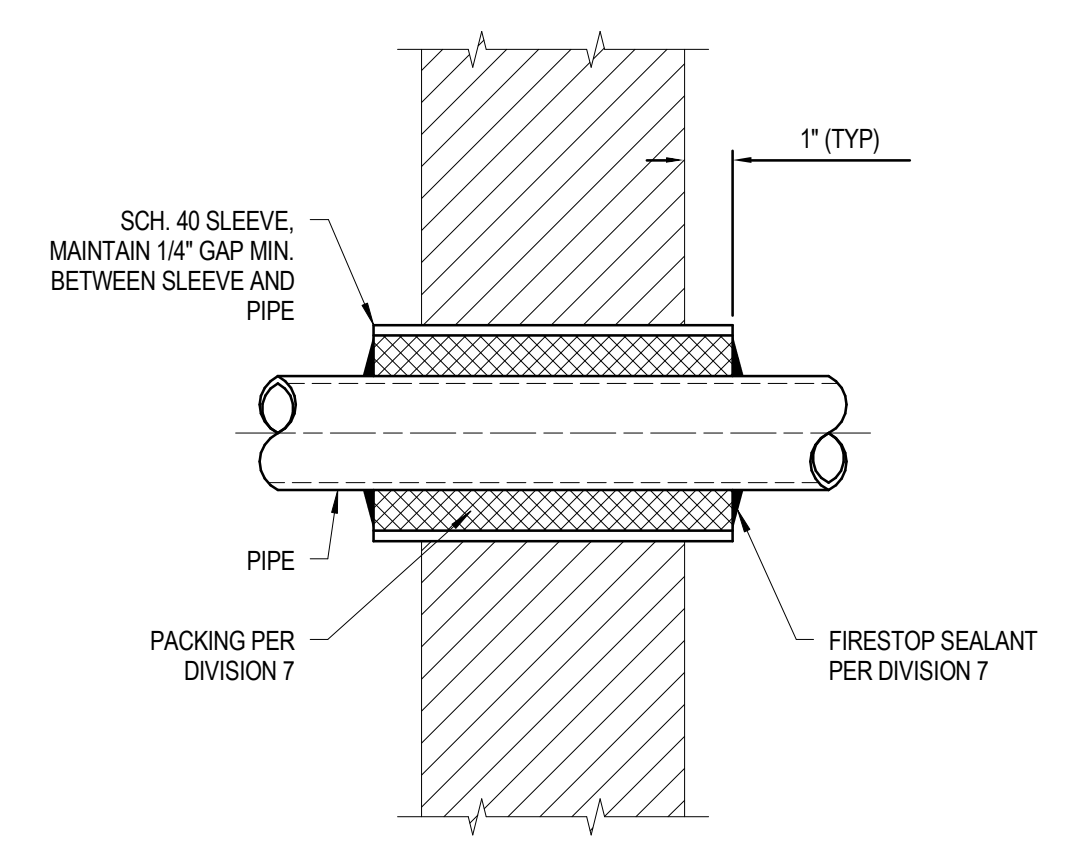
**2 CEILING DIFFUSER**  
421 SCALE: N.T.S.



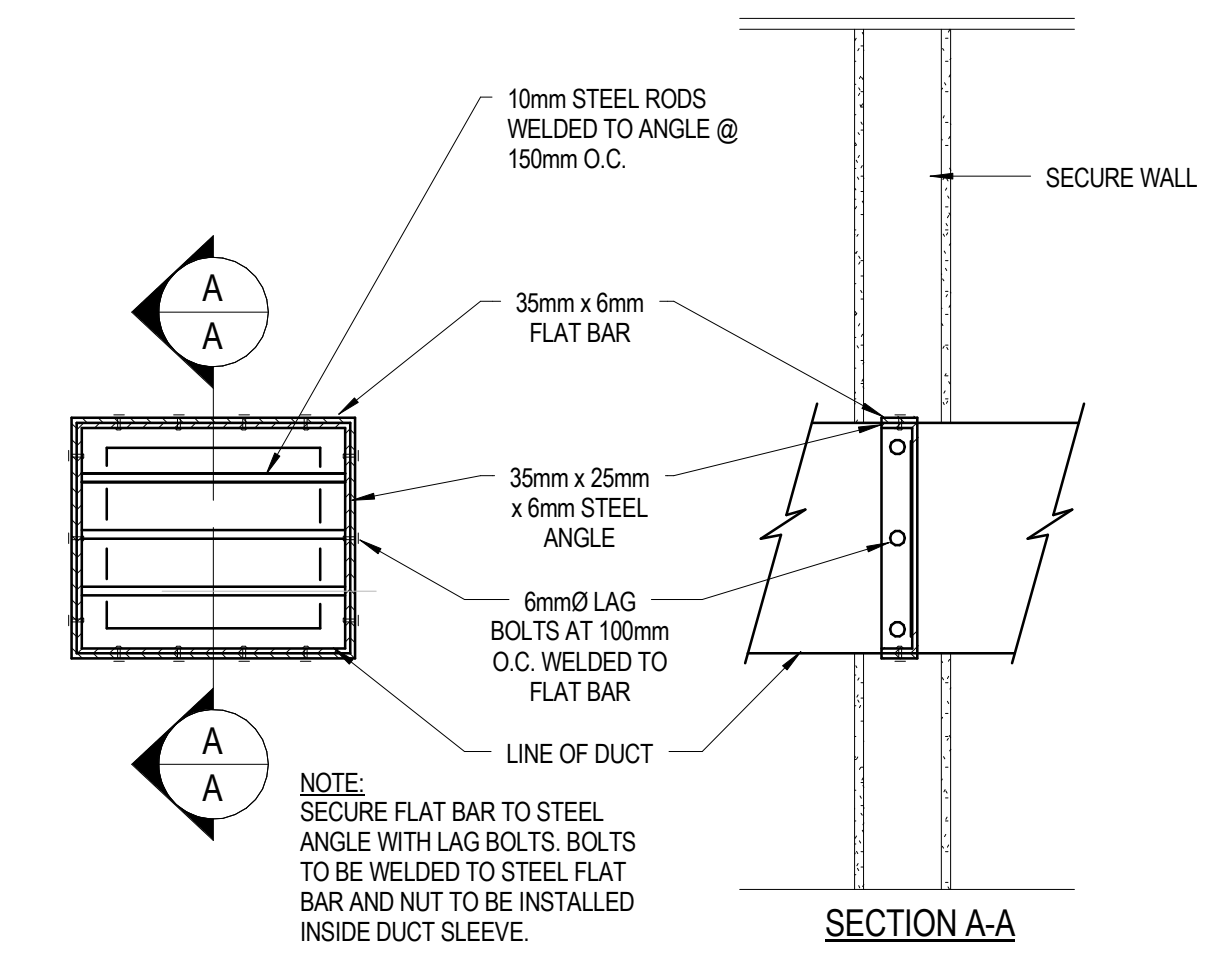
**3 RETURN AIR / EXHAUST AIR GRILLE CONNECTION**  
421 SCALE: N.T.S.



**4 ROOF EXHAUST FAN WITH CURB**  
421 SCALE: N.T.S.



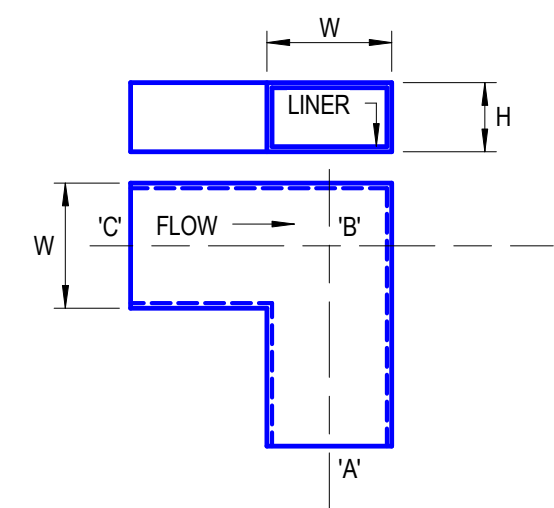
**5 PIPING WALL PENETRATION**  
421 SCALE: N.T.S.



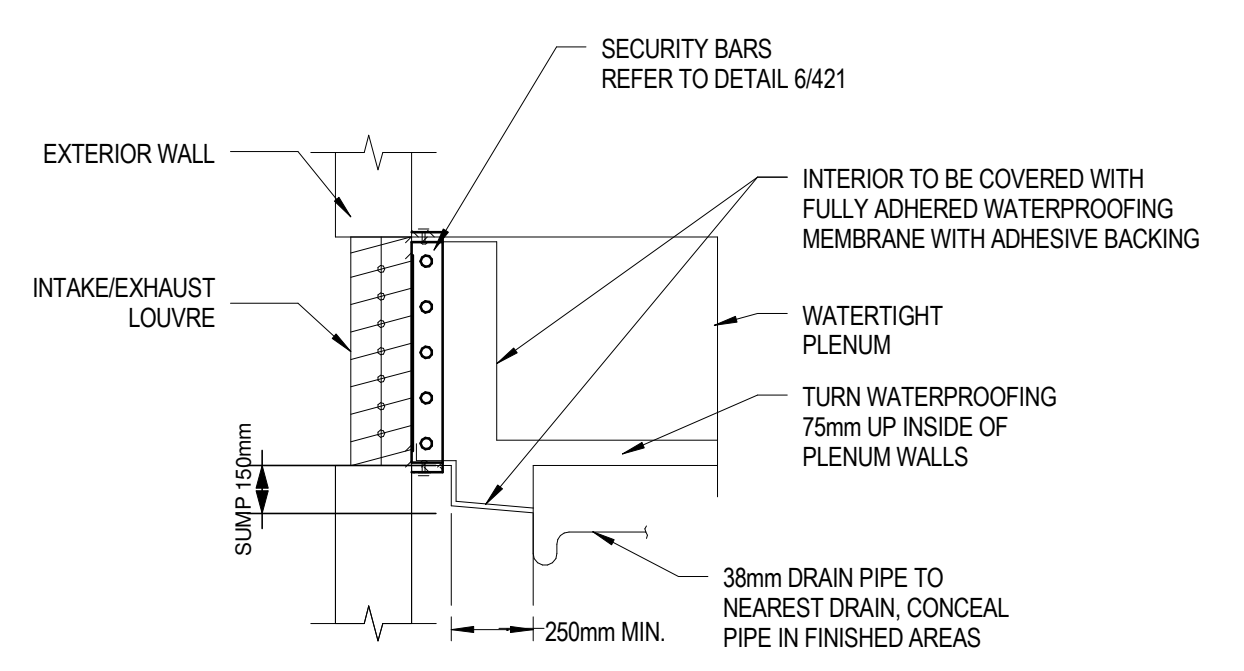
**6 SECURITY DUCT**  
421 SCALE: N.T.S.

CROSS-TALK SILENCER SCHEDULE						
I.D.	AIRFLOW LIS	A (mm)	C (mm)	W (mm)	H (mm)	REMARKS
SLS-1	26	275	2235	250	200	SEE NOTES BELOW.
SLR-1	26	1190	310	250	200	SEE NOTES BELOW.
SLS-2	21	250	1250	200	200	SEE NOTES BELOW.
SLR-2	21	800	700	200	250	SEE NOTES BELOW.
SLS-3	29	250	1250	150	150	SEE NOTES BELOW.
SLR-3	29	1250	250	150	150	SEE NOTES BELOW.

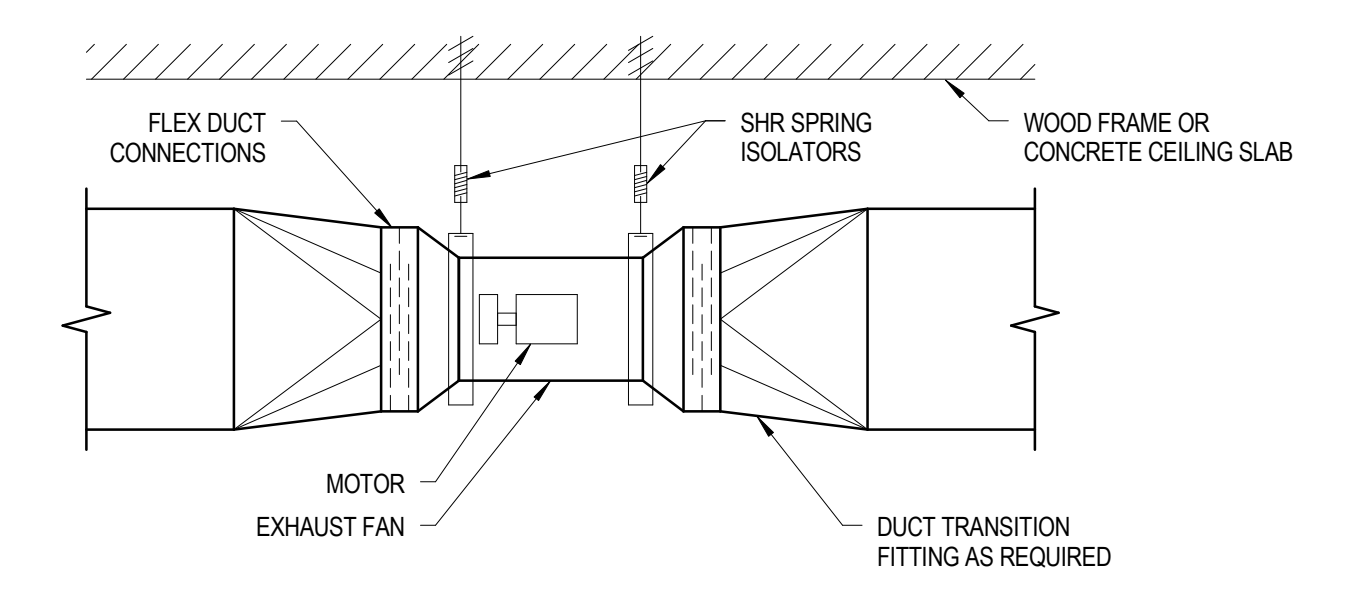
NOTE:  
H & W DIMENSIONS ARE INSIDE CLEAR DIMENSIONS. ANY LINER THICKNESSES ARE NOT INCLUDED IN DUCT DIMENSIONS.  
SILENCER LENGTHS ARE TAKEN FROM THE DISTANCES BETWEEN 'C' TO 'B' AND 'A' TO 'B'.  
'B' SHALL BE READ AS CENTRELINE OF 'W'.  
ALL SILENCERS SHALL MEET OR EXCEED STC 50 RATING.



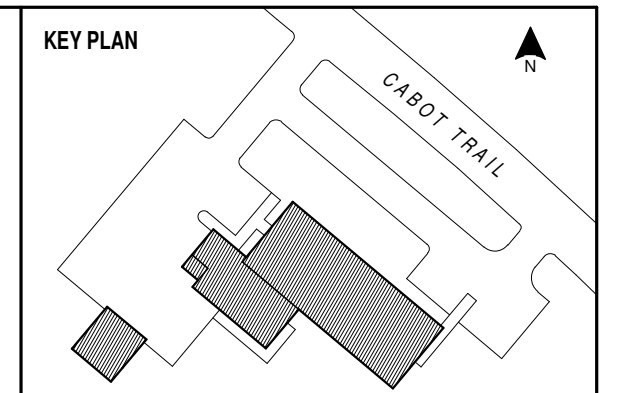
**7 DETAIL - CROSS - TALK SILENCER**  
421 SCALE: N.T.S.



**8 INTAKE/EXHAUST PLENUM DETAIL**  
421 SCALE: N.T.S.



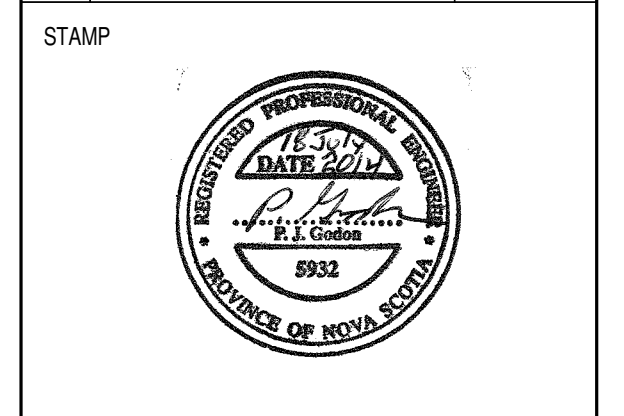
**9 SUSPENDED INLINE EXHAUST FAN**  
421 SCALE: N.T.S.



**SNC-LAVALIN**  
SNC-LAVALIN Inc.  
Halifax, Nova Scotia, Canada  
ISO 9001  
Member of the SNC-LAVALIN Group

NOTES

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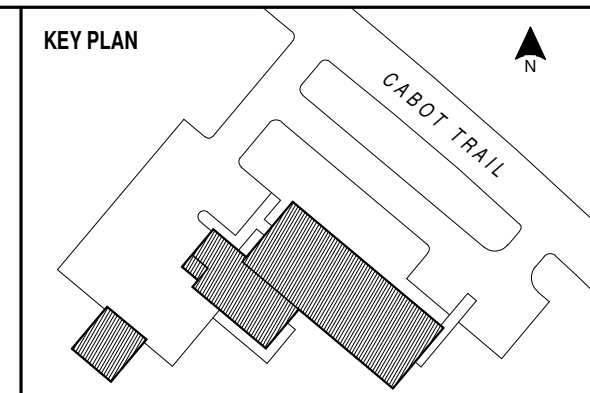


**INGONISH CIVIC BUILDING**  
INGONISH, NS  
DSRA JOB #: 12169  
DRAWN BY: CDA  
CHECKED BY: PG  
SCALE: N.T.S.

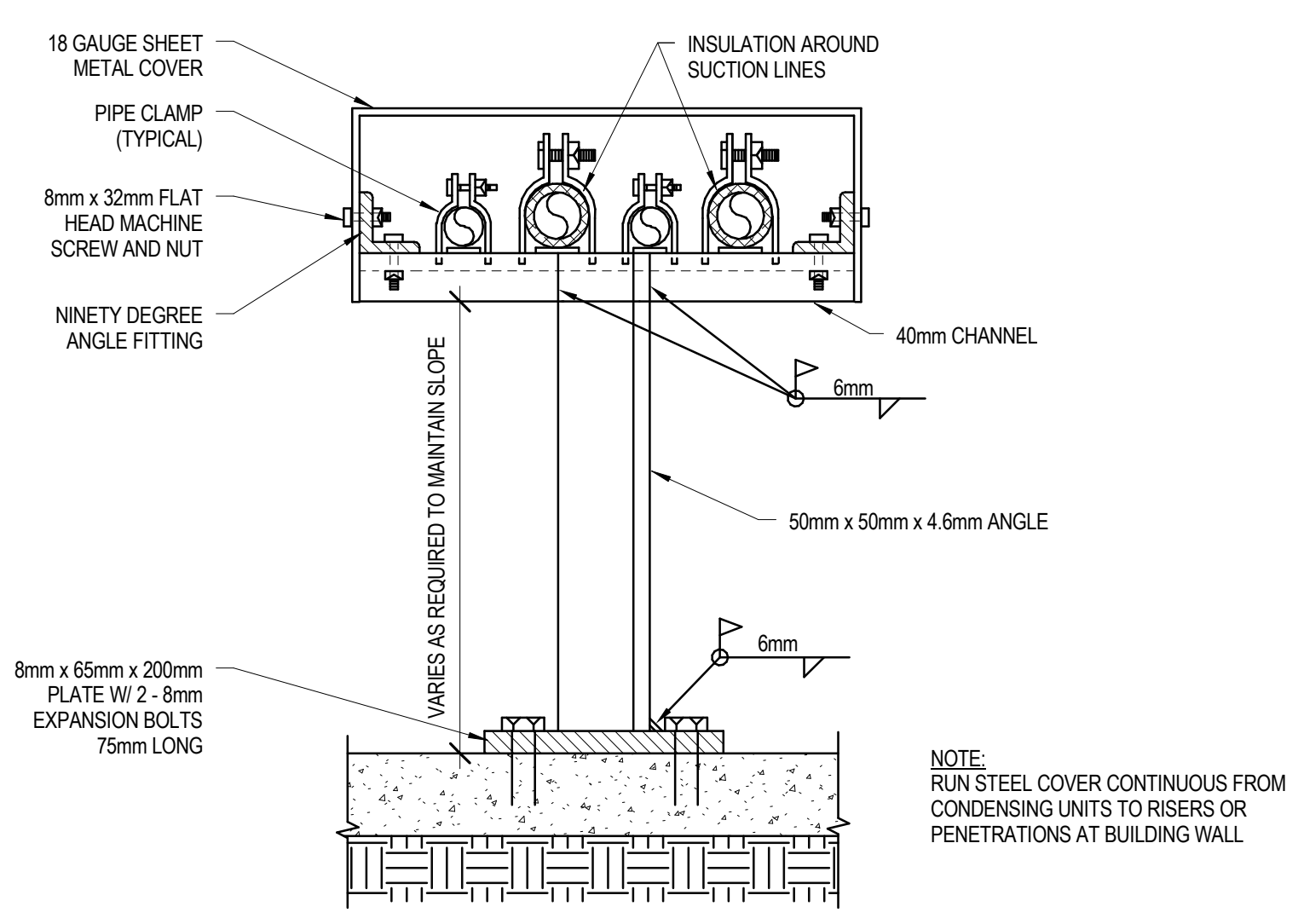
**VENTILATION DETAILS - SHEET 1**

**421**

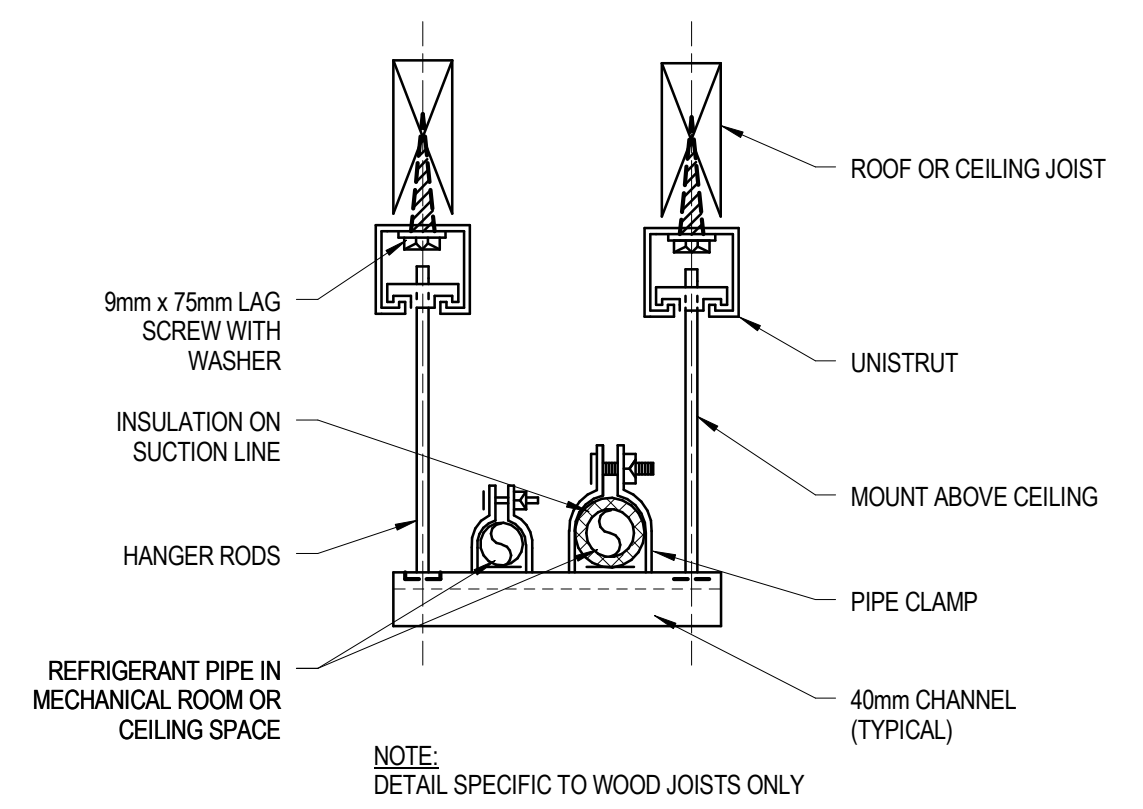
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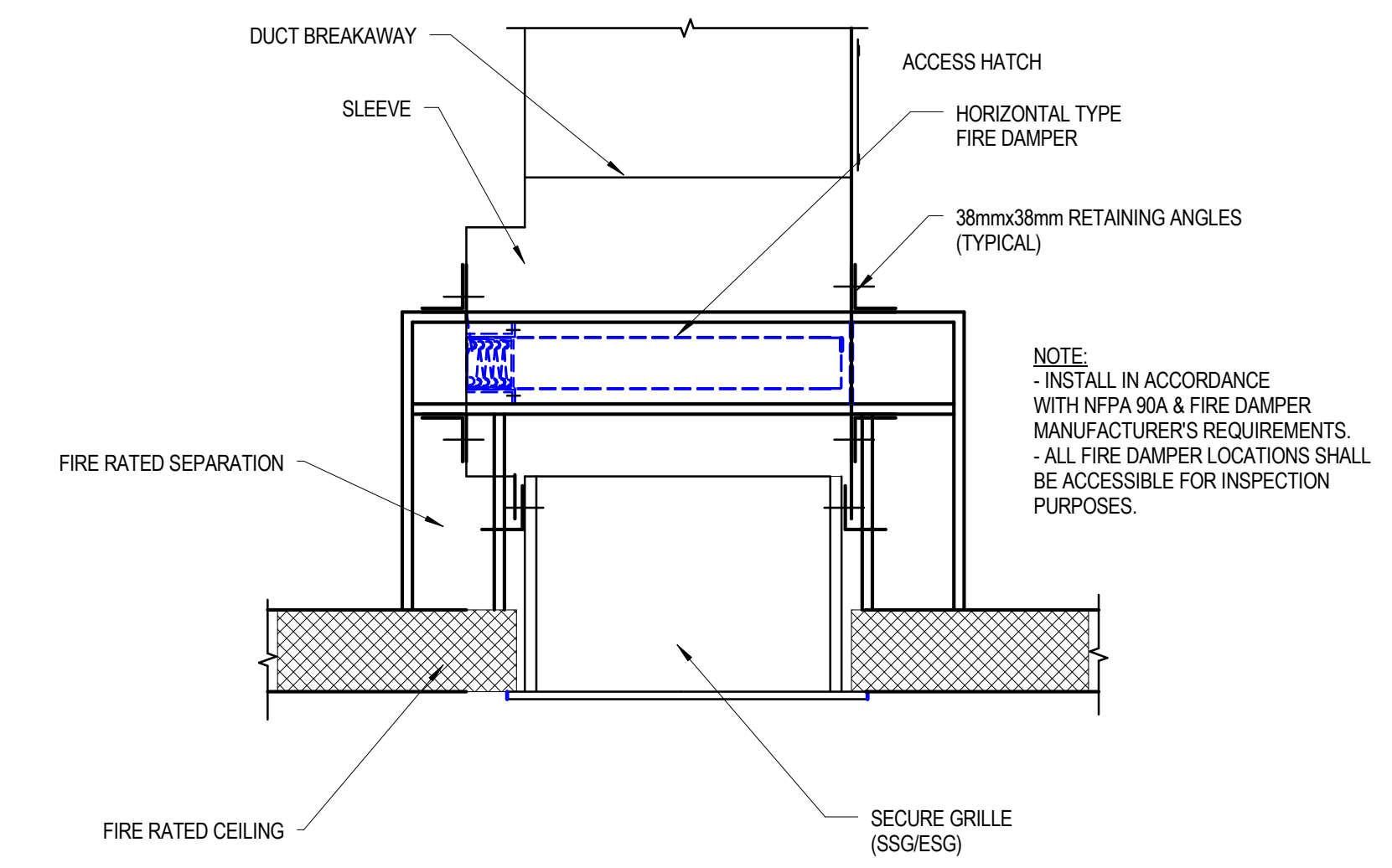
NOTES



**1 EXTERIOR REFRIGERANT PIPE SUPPORT**  
 SCALE: N.T.S.



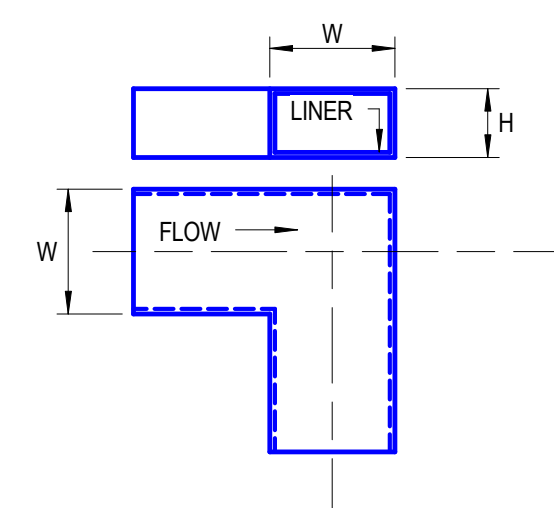
**2 SUSPENDED REFRIGERANT PIPE SUPPORT AT CEILING**  
 SCALE: N.T.S.



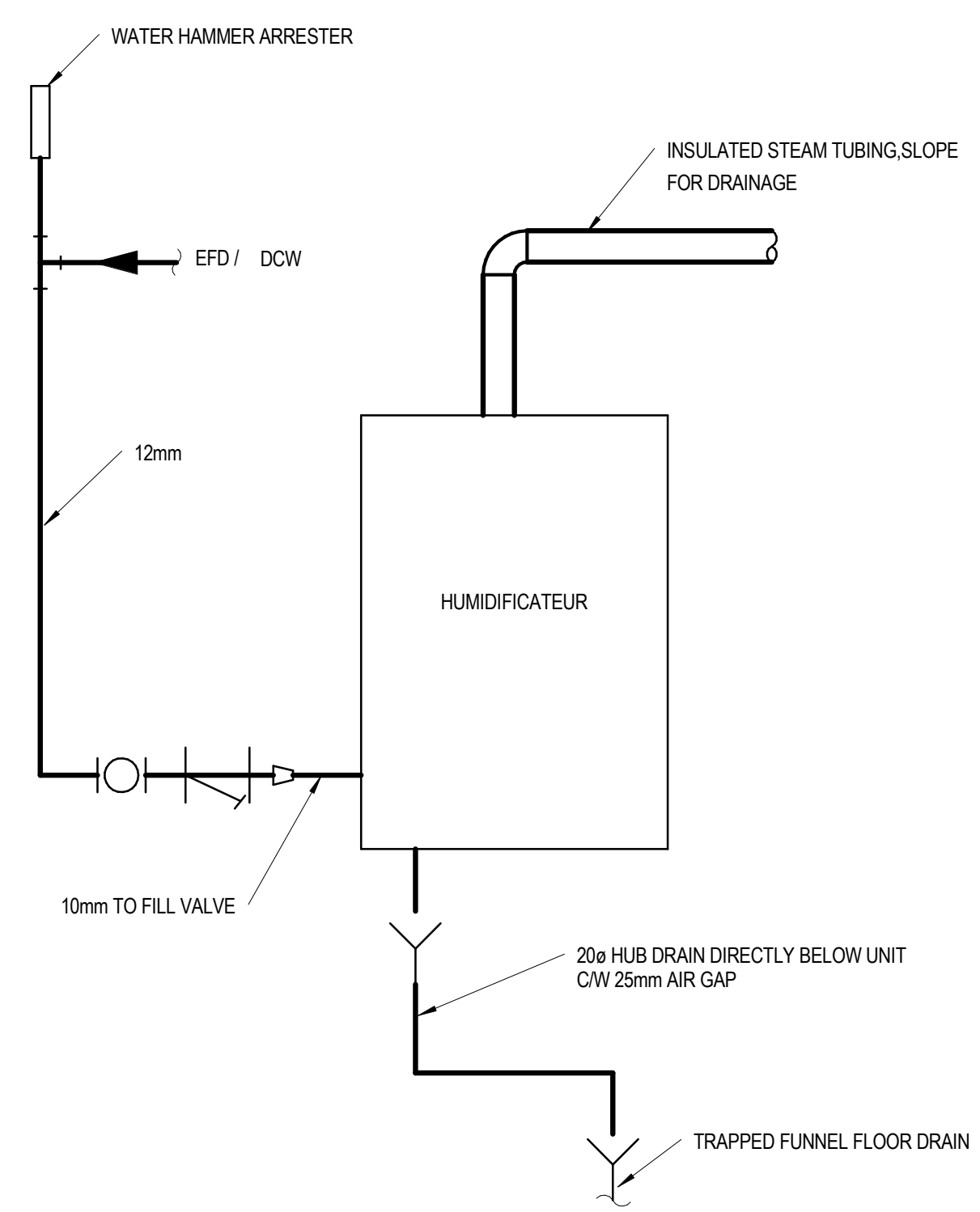
**3 HORIZONTAL FIRE DAMPER AT SECURE GRILLE**  
 SCALE: N.T.S.

SILENCER SCHEDULE						
I.D.	AIRFLOW L/S	W (mm)	H (mm)	LENGTH (mm)	P.D. (Pa)	REMARKS
SL-1S	1086	300	850	1500	26	SEE NOTES BELOW.
SL-1R	1002	450	500	1500	32	SEE NOTES BELOW.

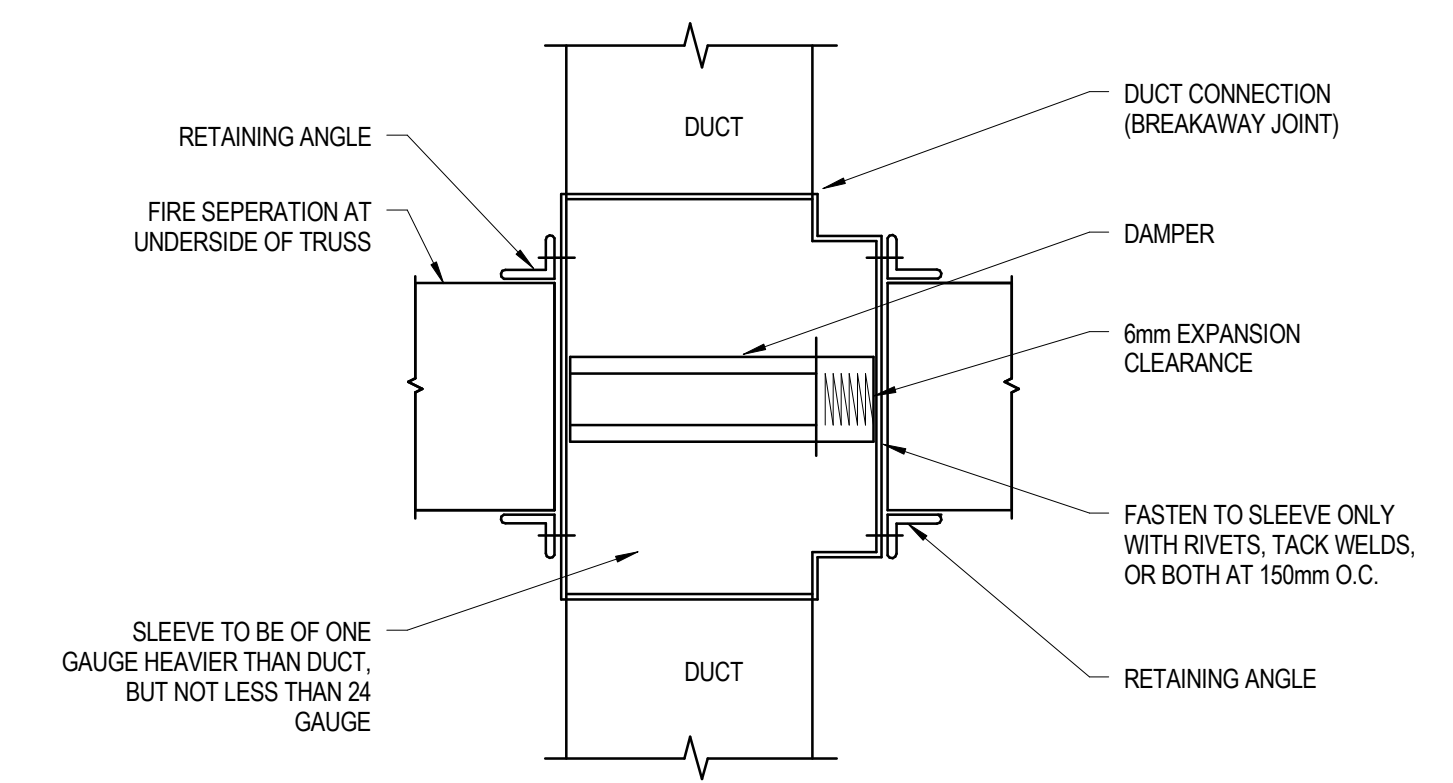
NOTE:  
 H & W DIMENSIONS ARE INSIDE CLEAR DIMENSIONS. ANY LINER THICKNESSES ARE NOT INCLUDED IN DUCT DIMENSIONS.  
 SILENCER LENGTHS SHALL BE TAKEN AS CENTRELINE DIMENSIONS.  
 SILENCERS SHALL MEET STC 35.



**4 SILENCER SCHEDULE**  
 SCALE: N.T.S.

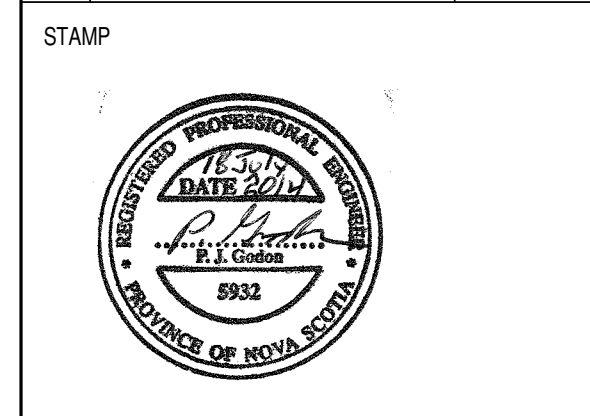


**5 HUMIDIFIER DETAIL**  
 SCALE: N.T.S.



**6 FIRE DAMPER - HORIZONTAL - TYPE 'B'**  
 SCALE: N.T.S.

NO.	REVISION	DATE
C02	ISSUED FOR TENDER	18 JUL 2014



**INGONISH CIVIC BUILDING**  
 INGONISH, NS  
 DSRA JOB #: 12169  
 DRAWN BY: C.A.  
 CHECKED BY: PG  
 SCALE: N.T.S.

**VENTILATION DETAILS - SHEET 2**

MARK	SUPPLY FAN SECTION				EXHAUST FAN SECTION				COOLING SECTION				HEATING SECTION				STEAM HUMIDIFIER CAPACITY (kg/hr)	VOLTAGE	PHASE	COMMENTS		
	AIRFLOW (L/s)	MINIMUM OUTSIDE AIR (L/s)	E.S.P. (Pa)	FAN QTY	AHU SUP MOTOR (W)	AHU EXH AIR (L/s)	AHU EXH E.S.P. (Pa)	AHU EXH FAN QTY	AHU EXH MOTOR (W)	COOLING TYPE	CC TOTAL CAPACITY (kW)	CC SENSIBLE CAPACITY (kW)	EAT (C°, DB)	LAT (C°, DB)	HEATING TYPE	TOTAL HEATING (kW)					EAT (C°)	LAT (C°)
AHU-1	1200	158	180	1	2237	1000	100	1	1491	DX	25.81	18.16	27.2	12.8	ELECTRIC	4.4	14.5	21.1	5	575	3	AHU WILL OPERATE AT 85% OF INDICATED AIRFLOW. REMAINING 15% IS FOR FUTURE USE.

MARK	LOCATION	AIRFLOW			HEATING SECTION								MOTOR KILOWATTAGE	MOTOR VOLTAGE	MOTOR PHASE	COMMENTS
		PRIMARY AIR MAX (L/s)	PRIMARY AIR MIN (L/s)	HEATING AIRFLOW (L/s)	PRIMARY AIR INLET (mm)	TYPE	CAPACITY (kW)	EAT (C°)	LAT (C°)	HEATING VOLTAGE	HEATING PHASE					
FPB-1	112	104.0	31.0	104.0	150.0	ELECTRIC	1.5	21.1	33.0	600	3	0.25	208	1		
FPB-2	114	431.0	33.0	431.0	250.0	ELECTRIC	3.6	21.1	28.0	600	3	0.25	208	1		
FPB-3	112	226.0	5.0	226.0	200.0	ELECTRIC	4.4	21.1	37.3	600	3	0.25	208	1		
FPB-4	114	60.0	10.0	60.0	150.0	ELECTRIC	0.9	21.1	33.5	600	3	0.25	208	1		
FPB-5	112	96.0	41.0	96.0	150.0	ELECTRIC	1.5	21.1	34.1	600	3	0.25	208	1		
FPB-6	112	136.0	20.0	136.0	150.0	ELECTRIC	1.2	21.1	28.4	600	3	0.25	208	1		
FPB-7	106	80.0	40.0	80.0	150.0	ELECTRIC	1.5	21.1	36.7	600	3	0.25	208	1		

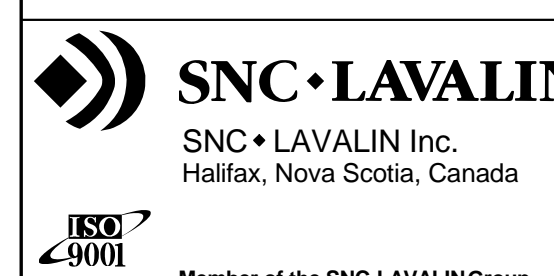
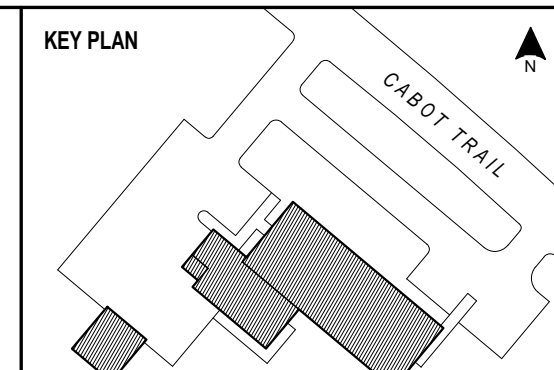
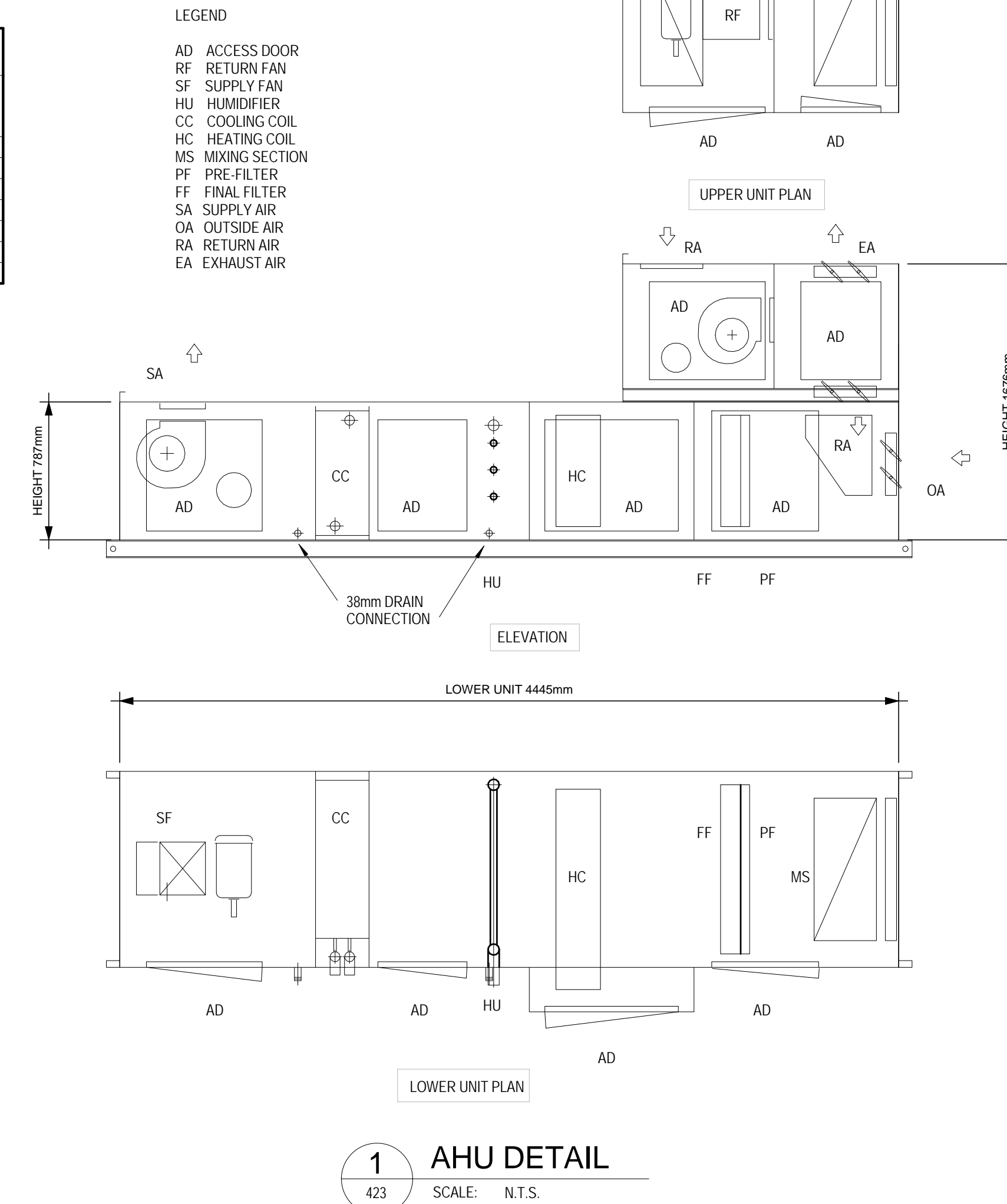
MARK	TYPE	MOUNTING	MATERIAL	FINISH	DEVICE STYLE	DUCT LENGTH (mm)	DUCT WIDTH (mm)	AD NECK SIZE	COMMENTS
DG-1	DOOR GRILLE	DOOR	STEEL	WHITE	DUAL-SIDED LOUVERED FACE, 25mm BLADE SPACING	406.4	254.0		
E1	EXHAUST	T-BAR	STEEL	WHITE	DOUBLE DEFLECTION, LOUVERED FACE	152.0	152.0		
E2	EXHAUST	T-BAR	STEEL	WHITE	DOUBLE DEFLECTION, LOUVERED FACE	150.0	200.0		
E3	EXHAUST	T-BAR	STEEL	WHITE	DOUBLE DEFLECTION, LOUVERED FACE	150.0	200.0		
E4	EXHAUST	DRYWALL	STEEL	WHITE	DOUBLE DEFLECTION, LOUVERED FACE	150.0	200.0		
E5	EXHAUST	DUCT MOUNT	STEEL	WHITE	DOUBLE DEFLECTION, LOUVERED FACE	150.0	200.0		
ESG-1	EXHAUST	DRYWALL	STEEL	WHITE	SECURITY GRILLE	150.0	150.0		
ESG-2	EXHAUST	CONCRETE BLOCK	STEEL	WHITE	SECURITY GRILLE	200.0	200.0		
ESG-3	EXHAUST	DUCT MOUNT	STEEL	WHITE	SECURITY GRILLE	250.0	250.0		
R1	RETURN	T-BAR	STEEL	WHITE	DOUBLE DEFLECTION LOUVERED FACE	152.0	203.2		
R2	RETURN	T-BAR	STEEL	WHITE	DOUBLE DEFLECTION LOUVERED FACE	203.2	203.2		
R3	RETURN	T-BAR	STEEL	WHITE	DOUBLE DEFLECTION LOUVERED FACE	300.0	300.0		
R4	RETURN	T-BAR	STEEL	WHITE	DOUBLE DEFLECTION LOUVERED FACE	406.4	406.4		
R5	RETURN	T-BAR	STEEL	WHITE	DOUBLE DEFLECTION LOUVERED FACE	300.0	300.0		
R6	RETURN	DRYWALL	STEEL	WHITE	DOUBLE DEFLECTION, LOUVERED FACE	762.0	457.0		
R7	RETURN	T-BAR	STEEL	WHITE	DOUBLE DEFLECTION, LOUVERED FACE	508.0	356.0		
R8	RETURN	T-BAR	STEEL	WHITE	DOUBLE DEFLECTION LOUVERED FACE	254.0	254.0		
R9	RETURN	DRYWALL	STEEL	WHITE	DOUBLE DEFLECTION, LOUVERED FACE	350.0	350.0		
S1	SUPPLY	T-BAR	STEEL	WHITE	305 X 305 SQUARE 3-CONE DIFFUSER IN 610 X 610 PANEL			150	
S2	SUPPLY	DRYWALL	STEEL	WHITE	305 X 305 SQUARE 3-CONE DIFFUSER IN 610 X 610 PANEL			150	
S3	SUPPLY	DUCT MOUNT	STEEL	WHITE	LOUVERED FACE	750.0	150.0		
S4	SUPPLY	T-BAR	STEEL	WHITE	SQUARE 3-CONE DIFFUSER IN 610 X 610 PANEL			200	
S5	SUPPLY	T-BAR	STEEL	WHITE	SQUARE 3-CONE DIFFUSER - 3 Direction IN 610 X 610 PANEL			150	
SL-1	SUPPLY	DRYWALL	ALUMINUM	WHITE	1 SLOT (12mm)	900.0	150.0	200	PLENUM SIZE: 900mm x 150mm
SL-2	SUPPLY	DRYWALL	ALUMINUM	WHITE	2 SLOT (19mm)	1200.0	150.0	200	PLENUM SIZE: 1200mm x 150mm
SL-3	SUPPLY	DRYWALL	ALUMINUM	WHITE	2 SLOT (19mm)	1500.0	150.0	200	PLENUM SIZE: 900mm x 150mm
SL-4	SUPPLY	T-BAR	ALUMINUM	WHITE	2 SLOT (12mm)	1200.0	150.0	200	PLENUM SIZE: 1200mm x 150mm
SSG-1	SUPPLY	DRYWALL	STEEL	WHITE	SECURITY GRILLE	150.0	150.0		
SSG-2	SUPPLY	CONCRETE BLOCK	STEEL	WHITE	SECURITY GRILLE	200.0	200.0		
SSG-3	SUPPLY	DRYWALL	STEEL	WHITE	SECURITY GRILLE	250.0	250.0		

MARK	ROOM NUMBER	TYPE	SERVICE	CAPACITY (L)	ACCEPTANCE VOLUME (L)	PRECHARGE PRESSURE (kPa)	COMMENTS
XT-1	109	BLADDER	DOMESTIC WATER	166.00	49	274	
XT-2	109	DIAPHRAGM	DHW	34.90	24.8	274	

MARK	SERVICE	ROOM NUMBER	UNIT TYPE	STEAM CAPACITY (KG/HR)	VOLTAGE	PHASE	AMPS	COMMENTS
HUM-1	AHU-1	109	ELECTRIC	5	600	3	3.0	

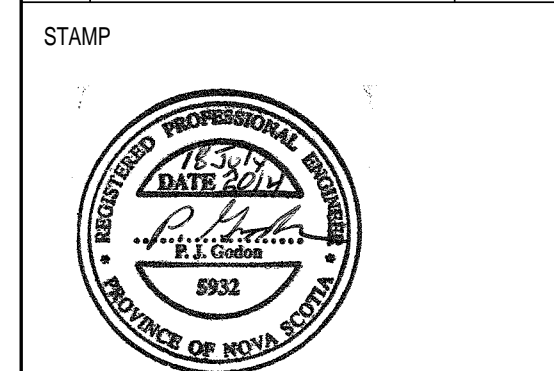
MARK	FRAME DEPTH (mm)	LOUVRE OPENING		BLADE ANGLE/SPACING (mm)	% FREE AREA	COMMENTS
		WIDTH (mm)	HEIGHT (mm)			
LV-1	150	1150.0	900.0	450	55.4	DRAINABLE
LV-2	150	1150.0	900.0	450	54.4	DRAINABLE
LV-3	150	500.0	450.0	450	44.8	DRAINABLE
LV-4	150	350.0	450.0	450	42.86	DRAINABLE
LV-5	150	600.0	450.0	450	45.3	DRAINABLE
LV-6	150	450.0	450.0	450	44.4	DRAINABLE
LV-7	150	1150.0	900.0	450	55.4	DRAINABLE
LV-8	150	900.0	900.0	450	54.9	DRAINABLE

MARK	ROOM NUMBER	SYSTEM SERVED	TYPE	PUMP FLOW (L/s)	PUMP HEAD (m)	MOTOR (kW)	VOLTAGE	PHASE	COMMENTS
P-R1	109	DOMESTIC HOT WATER CIRCULATION PUMP	DHW	0.113	1.46	0.03	120	1	INLINE CIRCULATORY, ALL BRONZE



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INGONISH CIVIC BUILDING  
INGONISH, NS  
DSRA JOB #: 12169  
DRAWN BY: CDA  
CHECKED BY: PG  
SCALE: N.T.S.

MECHANICAL SCHEDULES - SHEET 1

AHU CONDENSER SCHEDULE										
MARK	CAPACITY (kW)	ARRANGEMENT	NUMBER OF COMPRESSORS	COP	DIMENSIONS (mm)	CONDENSER FAN QTY	REFRIGERANT	VOLTAGE	PHASE	COMMENTS
CU-1	25.4	FLOOR MOUNTED	2	3.08	1143 X 1041 X 1651	2	R-410A	575	3	

AC SPLIT SYSTEM SCHEDULE - INDOOR COMPONENTS											
MARK	ROOM NUMBER	ARRANGEMENT	AIR FLOW RATE (L/s)	NOISE LEVEL dBA	POWER INPUT (kW)	TOTAL COOLING (kW)	EAT DB (C)	EAT WB (C)	VOLTAGE	PHASE	COMMENTS
DX-2	202	DUCT MOUNTED	236	79	1.3	5.27	27.2	13	208	1	DIMENSIONS: 457mm x 457mm x 241mm
EV-2	121	WALL MOUNTED	150	36	1.2	2.78	27.2	20	208	1	COMPONENT FOR CU-2
EV-3	122	WALL MOUNTED	150	36	1.2	2.78	27.2	20	208	1	COMPONENT FOR CU-3

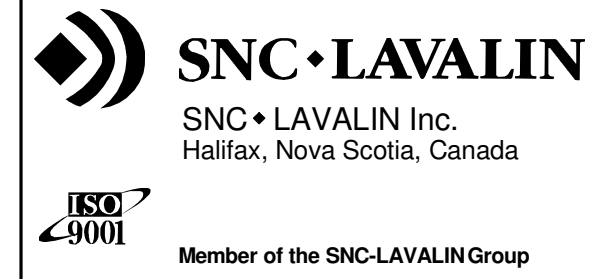
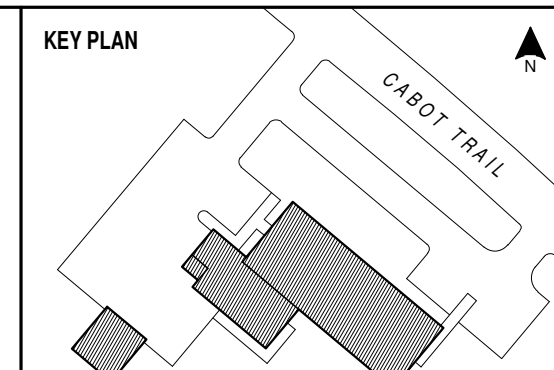
AC SPLIT SYSTEM SCHEDULE - OUTDOOR COMPONENTS										
MARK	SERVICE	ARRANGEMENT	COP	AMBIENT DB (C)	TOTAL COOLING LOADS (kW)	ACC REFRIGERANT	VOLTAGE	PHASE	COMMENTS	
CU-2	ROOM 121	FLOOR MOUNTED	3.0	0.0	2.78	R-410A	208	1	OUTDOOR COMPONENT FOR EV-2, PROVIDE GALV. STAND FOR CU-2	
CU-3	ROOM 122	FLOOR MOUNTED	3.0	0.0	2.78	R-410A	208	1	OUTDOOR COMPONENT FOR EV-3, PROVIDE GALV. STAND FOR CU-3	
CU-4	ROOM 202	FLOOR MOUNTED	3.08	0.0	5.27	R-410A	208	1	OUTDOOR COMPONENT FOR DX-2, DIMENSIONS: 457mm x 457mm x 241mm	

CONTROL DAMPER SCHEDULE (SUPPLIED BY DIV.25, INSTALLED BY DIV.23)						
MARK	DAMPER SERVICE	DAMPER SIZE	BLADE ARRANGEMENT	DAMPER TYPE	INSULATED BLADES AND FRAME	ACTUATOR
MD-1	RM. 110 S/A - EF # 4	600 x 450	HORIZONTAL	PARALLEL	YES	120V, 2 POSITION, SPRING RETURN, END SWITCH, AUX. CONTACT
MD-2	RM. 110 E/A - EF # 4	450 x 450	HORIZONTAL	PARALLEL	YES	120V, 2 POSITION, SPRING RETURN, END SWITCH, AUX. CONTACT
MD-3	RM. 118 EXH. HOOD E/A - EF # 6	450 x 300	HORIZONTAL	PARALLEL	YES	120V, 2 POSITION, SPRING RETURN, END SWITCH, AUX. CONTACT
MD-4	RM. 118 EXH. HOOD MAKEUP AIR - EF # 6	200 x 200	VERTICAL	PARALLEL	YES	120V, 2 POSITION, SPRING RETURN, END SWITCH, AUX. CONTACT
MD-5	RM. 201 E/A - EF # 1	350 x 350	VERTICAL	PARALLEL	YES	120V, 2 POSITION, SPRING RETURN, END SWITCH, AUX. CONTACT
MD-6	RM. 201 O/A - EF # 1	600 x 600	VERTICAL	PARALLEL	YES	120V, 2 POSITION, SPRING RETURN, END SWITCH, AUX. CONTACT
MD-7	RM. 202 E/A - EF # 2	350 x 350	VERTICAL	PARALLEL	YES	120V, 2 POSITION, SPRING RETURN, END SWITCH, AUX. CONTACT
MD-8	RM. 202 MAKEUP AIR - EF # 2	200 x 200	HORIZONTAL	PARALLEL	YES	120V, 2 POSITION, SPRING RETURN, END SWITCH, AUX. CONTACT
MD-9	RM. 109 MAKEUP AIR - EF # 5	200 x 200	HORIZONTAL	PARALLEL	YES	120V, 2 POSITION, SPRING RETURN, END SWITCH, AUX. CONTACT
MD-10	RM. 109 E/A - EF # 5	225 x 225	HORIZONTAL	PARALLEL	YES	120V, 2 POSITION, SPRING RETURN, END SWITCH, AUX. CONTACT
MD-11	ERV-3 E/A	350 x 450	HORIZONTAL	PARALLEL	YES	120V, 2 POSITION, SPRING RETURN, END SWITCH, AUX. CONTACT
MD-12	ERV-3 O/A	500 x 450	HORIZONTAL	PARALLEL	YES	120V, 2 POSITION, SPRING RETURN, END SWITCH, AUX. CONTACT
MD-13	ERV-2 E/A	250 x 200	VERTICAL	PARALLEL	YES	120V, 2 POSITION, SPRING RETURN, END SWITCH, AUX. CONTACT
MD-14	ERV-2 O/A	250 x 200	HORIZONTAL	PARALLEL	YES	120V, 2 POSITION, SPRING RETURN, END SWITCH, AUX. CONTACT
MD-15	ERV-1 E/A	250 x 200	HORIZONTAL	PARALLEL	YES	120V, 2 POSITION, SPRING RETURN, END SWITCH, AUX. CONTACT
MD-16	RM 207 E/A - EF # 3	350 x 350	HORIZONTAL	PARALLEL	YES	120V, 2 POSITION, SPRING RETURN, END SWITCH, AUX. CONTACT
MD-17	RM. 107 EXH. HOOD E/A - EF # 7	450 x 300	HORIZONTAL	PARALLEL	YES	120V, 2 POSITION, SPRING RETURN, END SWITCH, AUX. CONTACT

ENERGY RECOVERY VENTILATOR SCHEDULE													
MARK	ERV S/A AIRFLOW (L/s)	ERV S/A EA DBT (C°)	ERV S/A LA DBT (C°)	ERV R/A AIRFLOW (L/s)	ERV R/A EA DBT (C°)	ERV MIN. SEN EFF. (%)	ERV SUPPLY FAN ESP (Pa)	ERV SUPPLY FAN (kW)	ERV RETURN FAN ESP (Pa)	ERV RETURN MOTOR (kW)	VOLTAGE	PHASE	COMMENTS
ERV-1	167.0	-18.3	9.2	167.0	21.1	70	225.0	373	225.0	373	208	3	
ERV-2	40.0	-18.3	9.2	40.0	21.1	70	90.0	373	90.0	46	120	1	
ERV-3	236.0	-18.3	9.2	236.0	21.1	70	373.0	46	373.0	559	208	3	

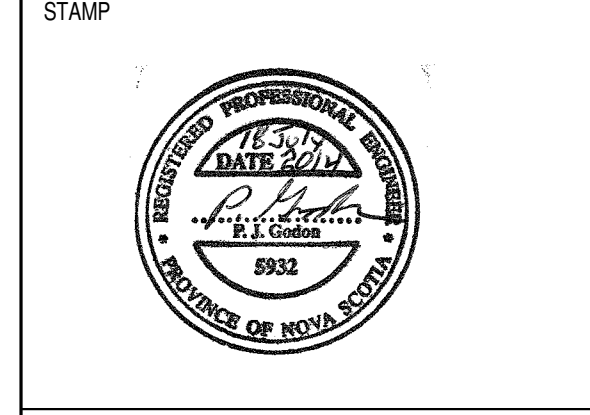
EXHAUST FAN SCHEDULE														
MARK	SERVICE	TOTAL AIR (L/S)	EXTERNAL STATIC PRESSURE (Pa)	UNIT TYPE	FAN MOUNTING	DRIVE TYPE	FAN SOUND (LWA)	FAN BRAKE POWER (W)	FAN MOTOR (hp)	Motor Wattage	VOLTAGE	PHASE	FAN RPM	COMMENTS
EF-1	ROOM 210	150	62.5	EXHAUST	ROOF	BELT	71	105	0.17	125	115	1	1653	
EF-2	ROOM 202	40	62.5	EXHAUST	ROOF	BELT	51	25	0.17	125	115	1	825	
EF-3	ROOM 207	25	62.5	EXHAUST	ROOF	BELT	50	15	0.17	125	115	1	783	
EF-4	ROOM 110	285	62.5	EXHAUST	IN-LINE	BELT	69	97	0.25	186	115	1	1255	
EF-5	ROOM 109	40	62.5	EXHAUST	IN-LINE	BELT	55	15	0.17	125	115	1	1477	
EF-6	ROOM 118	94	62.5	EXHAUST	IN-LINE	BELT	70	67	0.25	186	115	1	1282	
EF-7	ROOM 107	94	62.5	EXHAUST	IN-LINE	BELT	70	67	0.25	186	115	1	1282	

DUCT HEATING COIL SCHEDULE								
Mark	COIL TYPE	ENT AIR TEMP (°C)	LVG AIR TEMP (°C)	CAPACITY (kW)	SUPPLY AIR FLOW (L/s)	VOLTAGE	PHASE	COMMENTS
ERV3-H	ELECTRIC	9.2	18.0	3.6	236.0	600	3	TEMPERING COIL, SCR CONTROL
ERV2-H	ELECTRIC	9.2	21.0	1	40.0	600	3	TEMPERING COIL, SCR CONTROL



NOTES

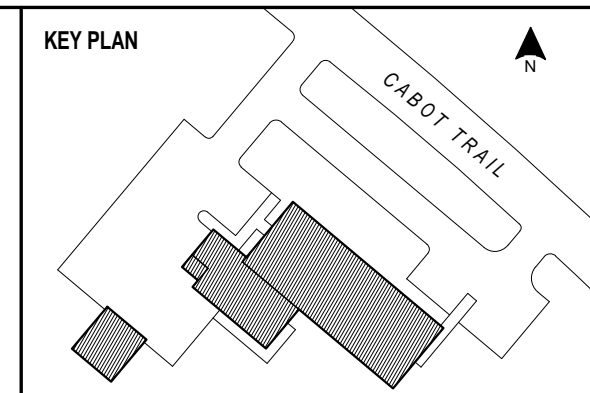
C01	ISSUED FOR TENDER	18 JUL 2014
NO.	REVISION	DATE



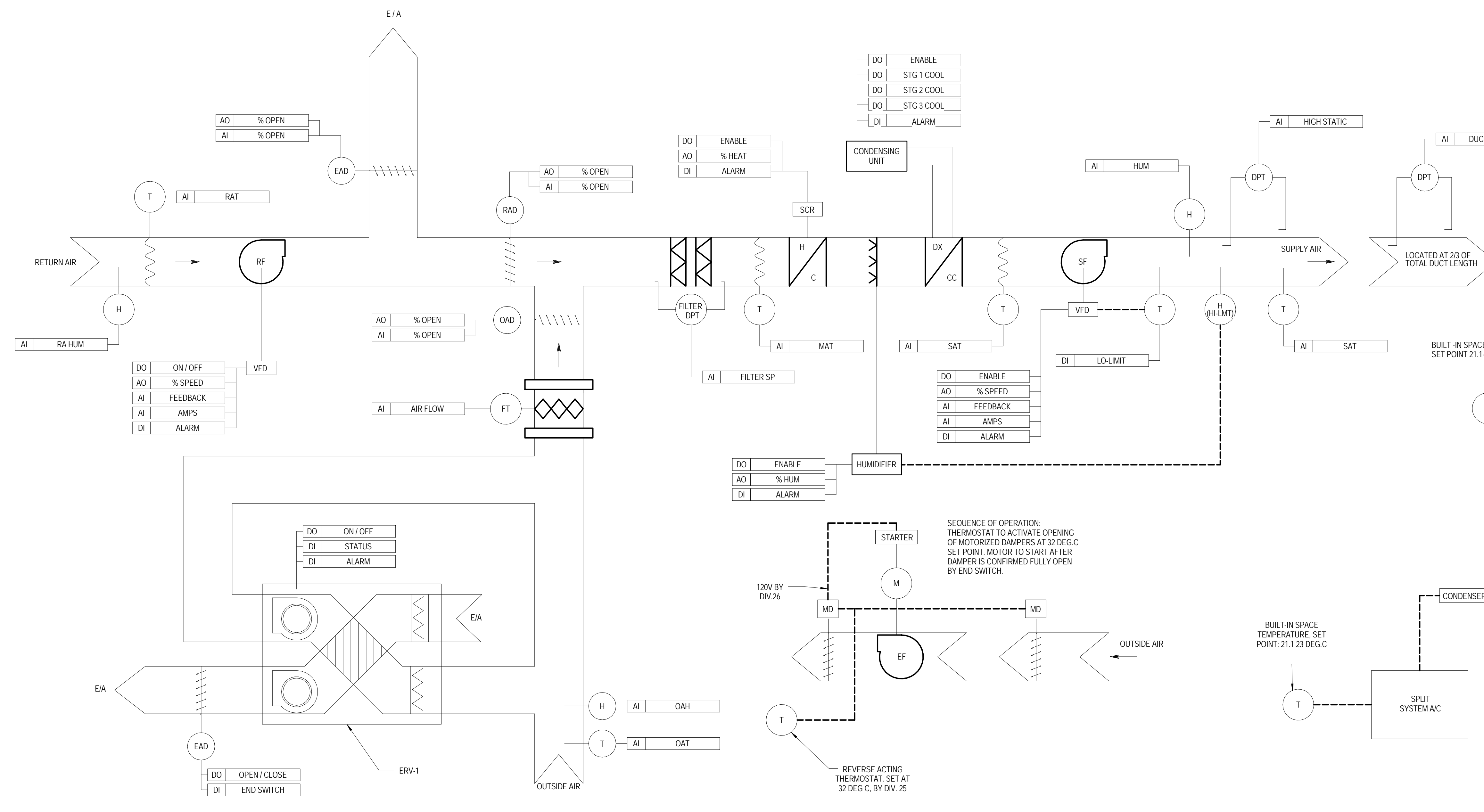
INGONISH CIVIC BUILDING  
INGONISH, NS  
DSRA JOB #: 12169  
DRAWN BY: C.A.  
CHECKED BY: PG  
SCALE:

MECHANICAL SCHEDULES - SHEET 2





NOTES  
1. AHU-1 MIXING BOX DAMPERS TO BE SUPPLIED WITH AIR HANDLING UNIT LESS ACTUATORS. ACTUATORS BY DIV. 25.



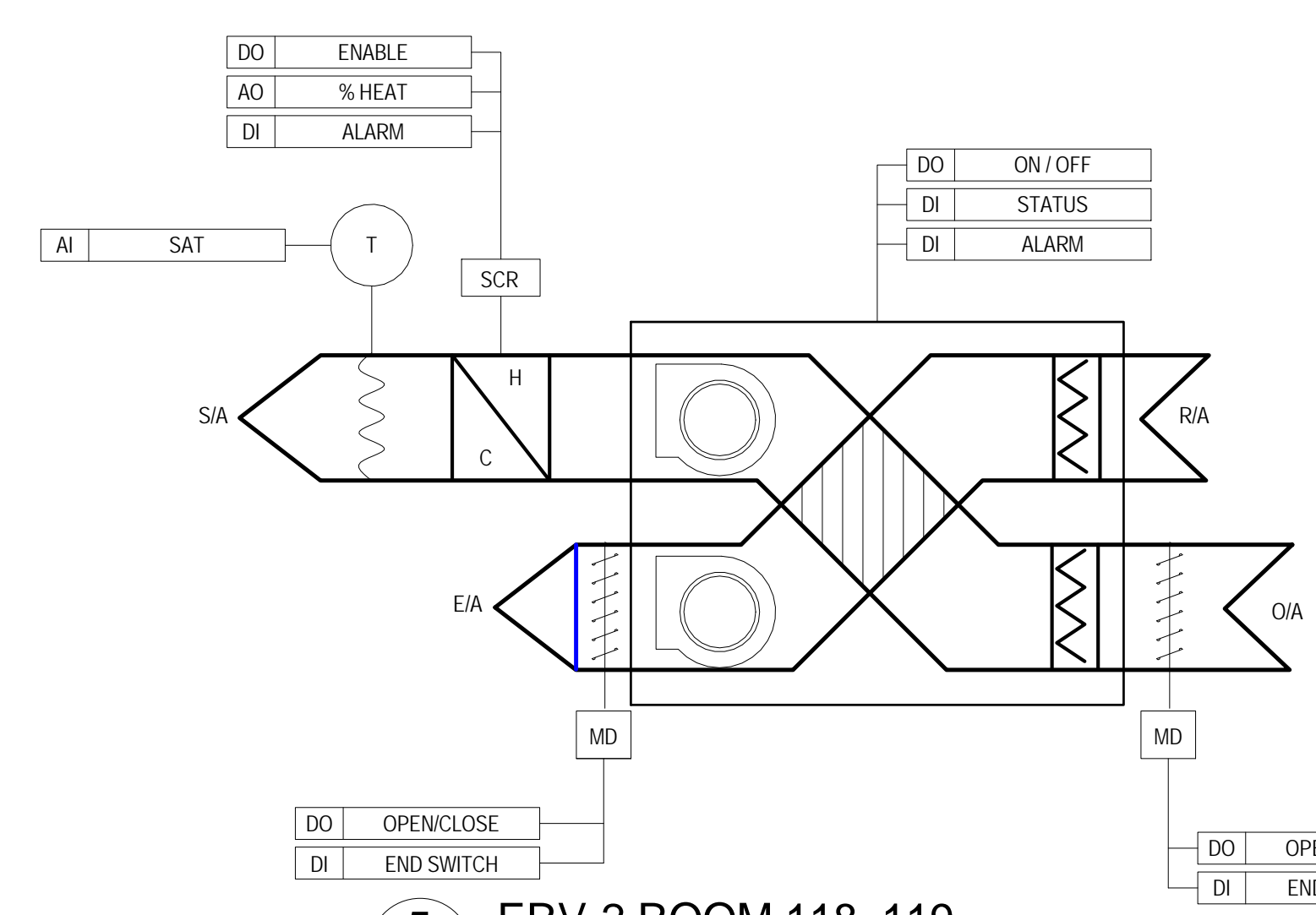
**1 AHU-1 & ERV-1 ADMIN AREA**  
425 SCALE: N.T.S.

**3 EXHAUST FAN EF-1, 2, 4, 5 & 6**  
425 SCALE: N.T.S.

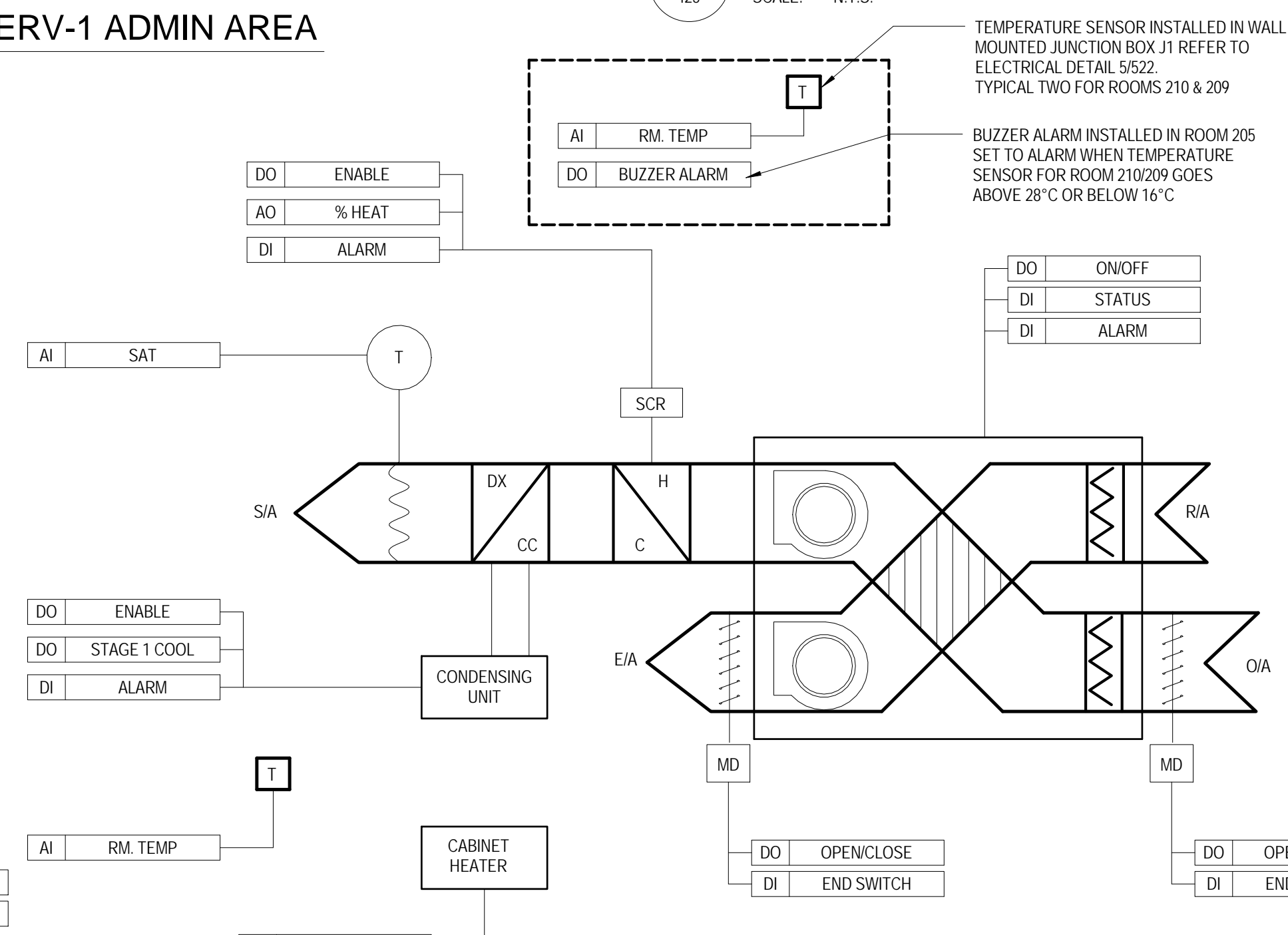
**2 SPLIT A/C FOR ROOM 122**  
425 SCALE: N.T.S.

**4 SPLIT A/C FOR ROOM 121**  
425 SCALE: N.T.S.

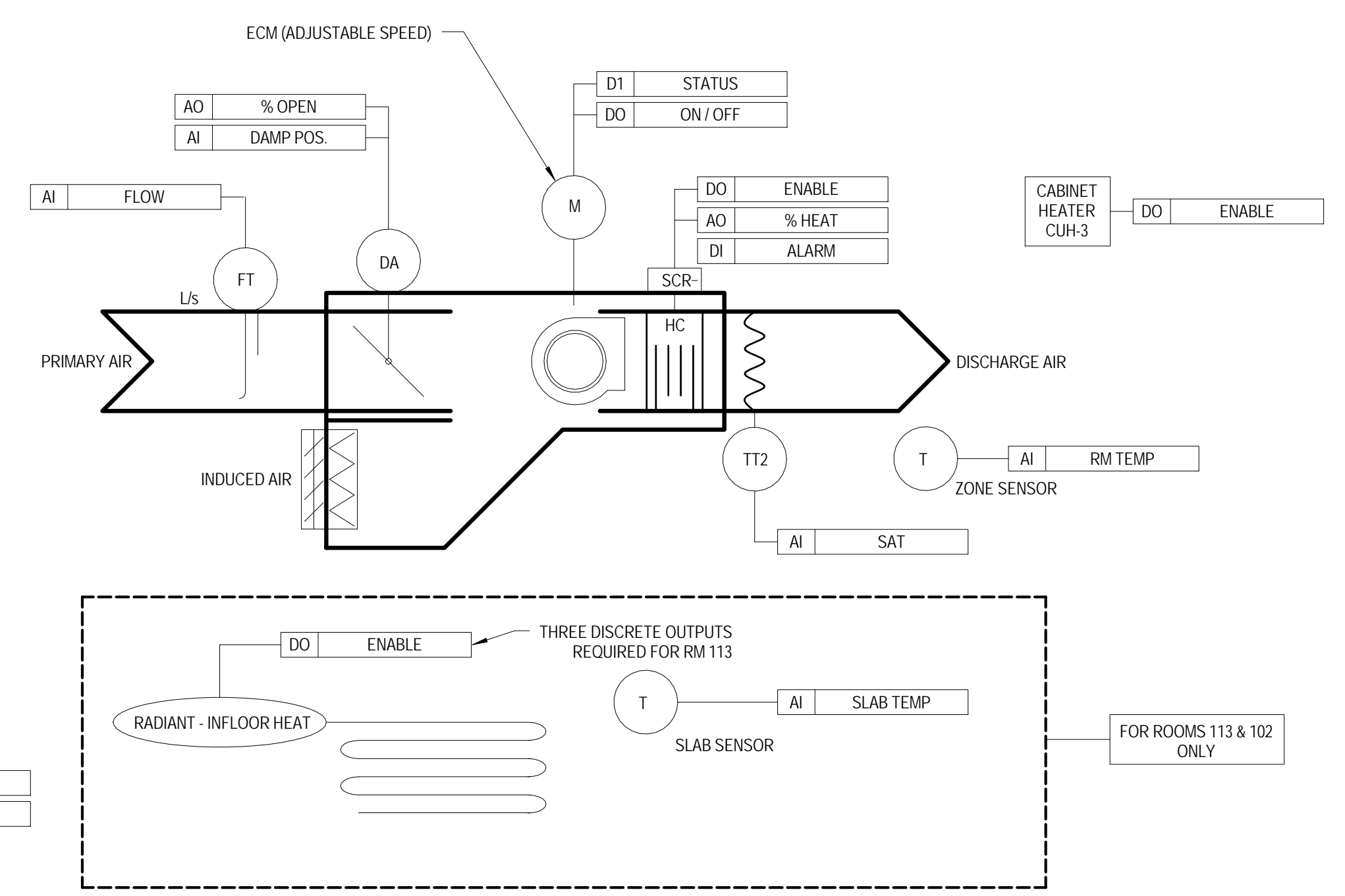
**8 EXHAUST FAN EF-3**  
425 SCALE: N.T.S.



**5 ERV-2 ROOM 118, 119**  
425 SCALE: N.T.S.

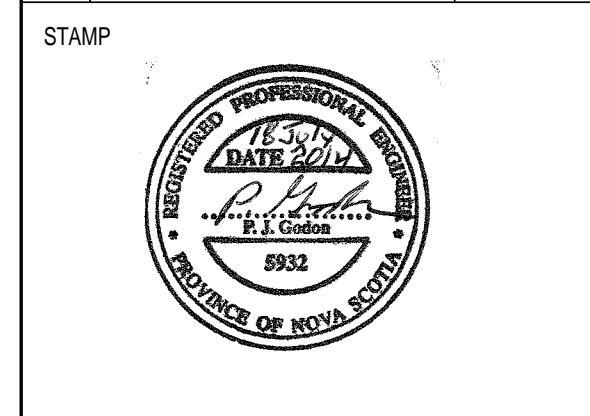


**6 ERV-3 PAVILION**  
425 SCALE: N.T.S.



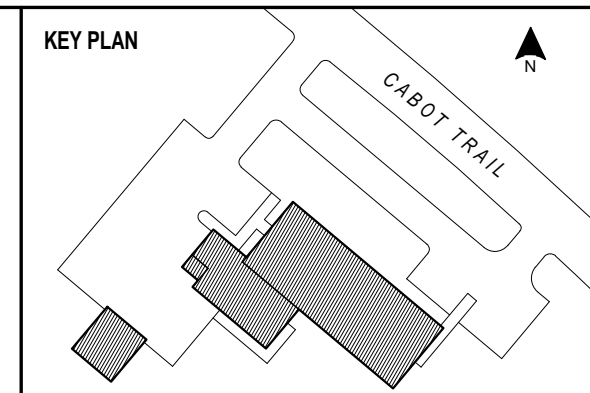
**7 SERIES FVAV TERMINAL UNITS**  
425 SCALE: N.T.S.

C02	ISSUED FOR TENDER	18 JUL 2014
NO.	REVISION	DATE

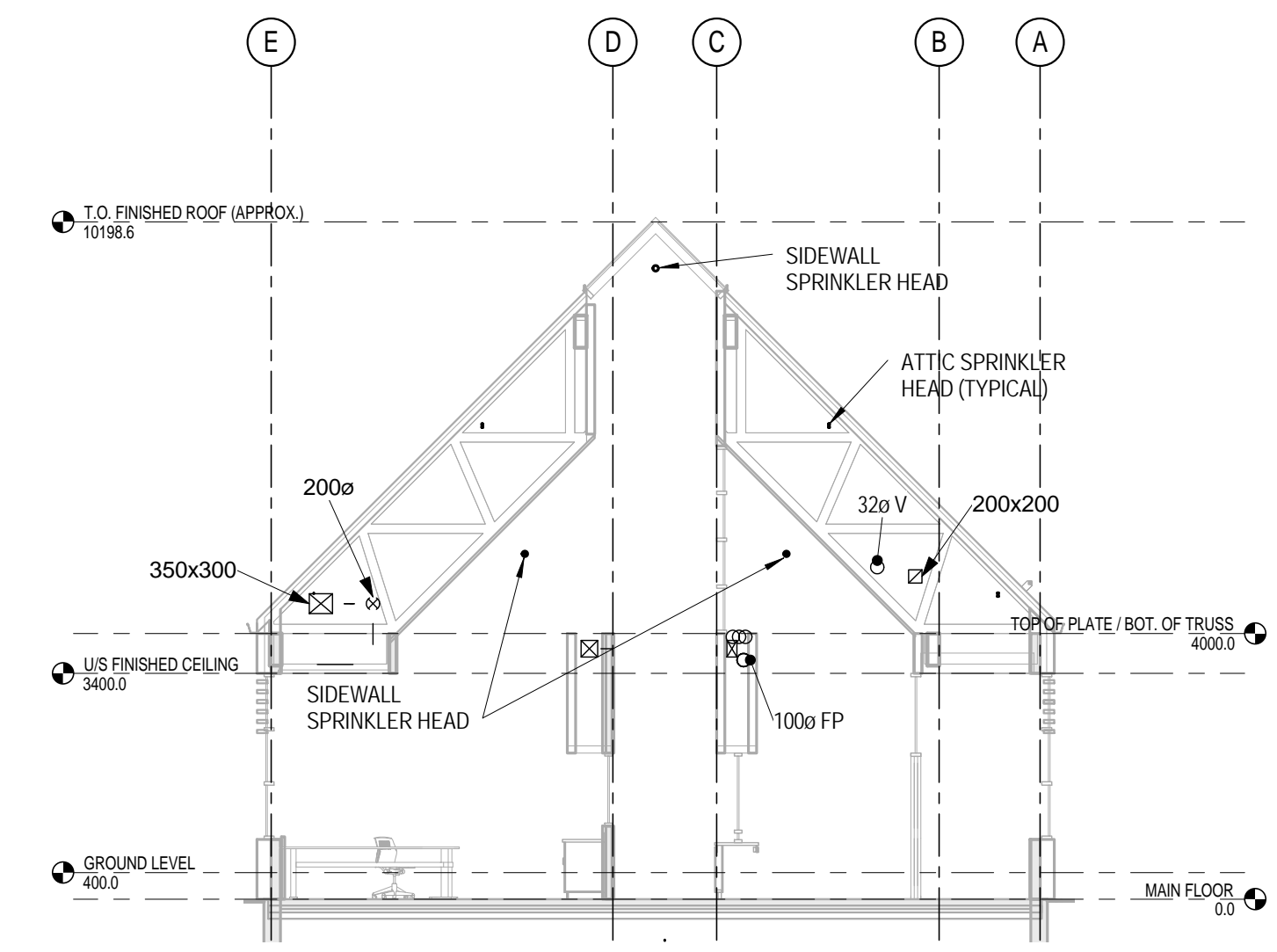
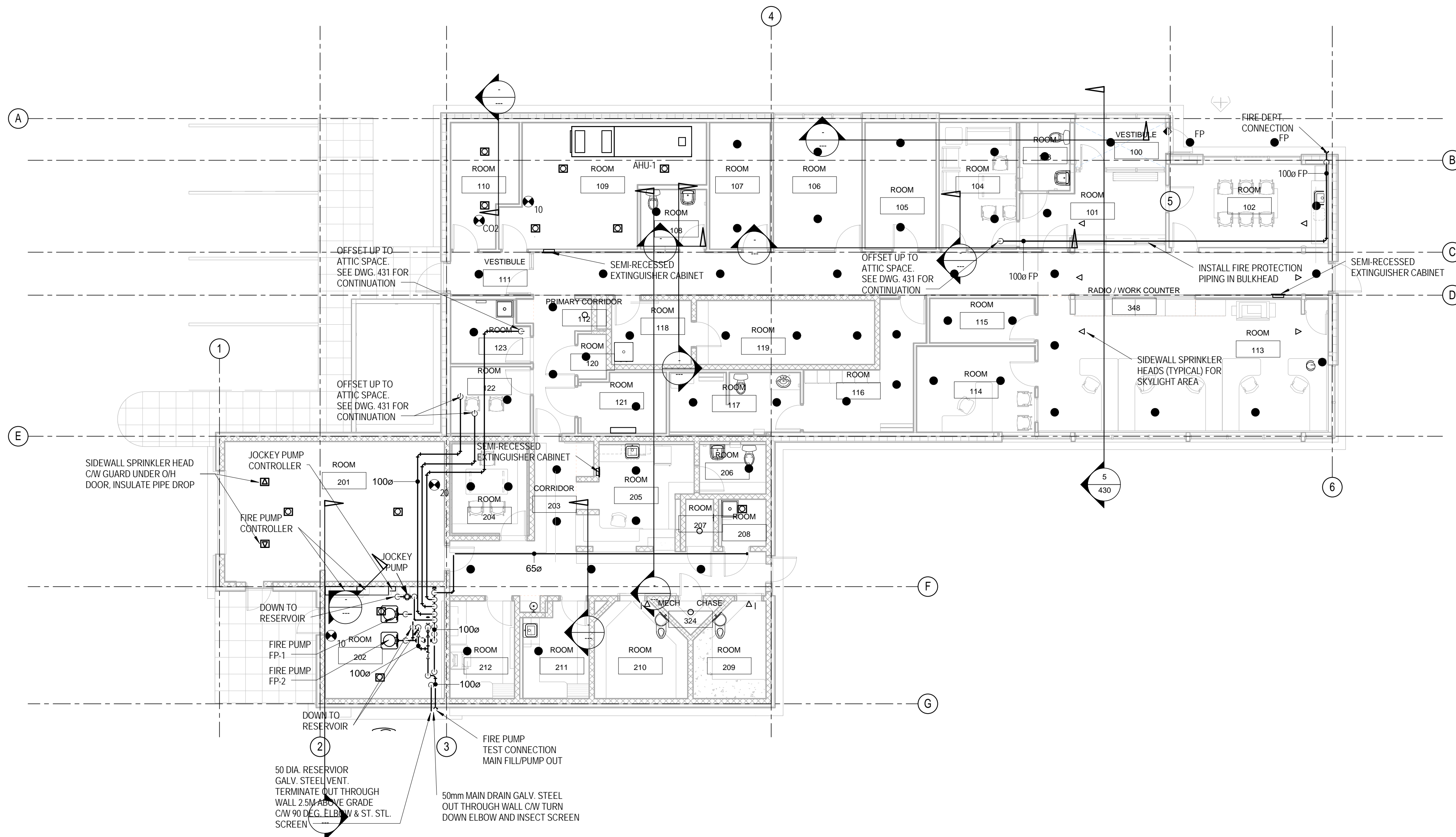


**INGONISH CIVIC BUILDING**  
INGONISH, NS  
DSRA JOB #: 12169  
DRAWN BY: JW  
CHECKED BY: PG  
SCALE: N.T.S.

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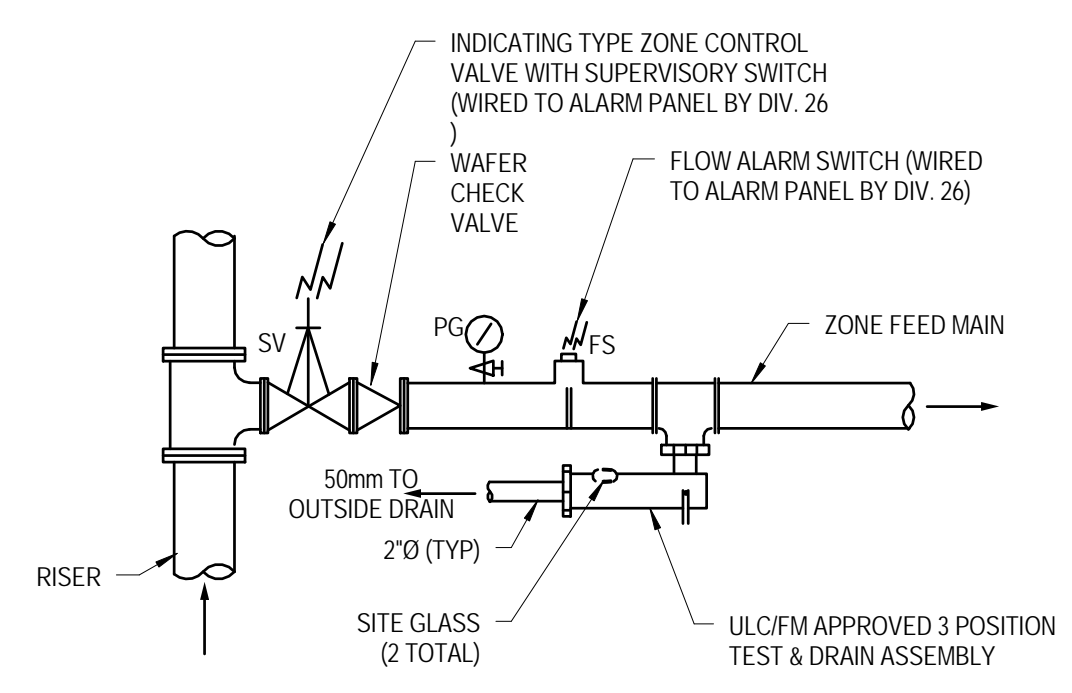


NOTES  
 1.0 SPRINKLER MAIN LINES SHOWN FOR PLANNING ONLY. ALL MAIN AND BRANCH PIPING SHALL BE HYDRAULICALLY SIZED AND ROUTED TO SUIT HEAD LAYOUT.

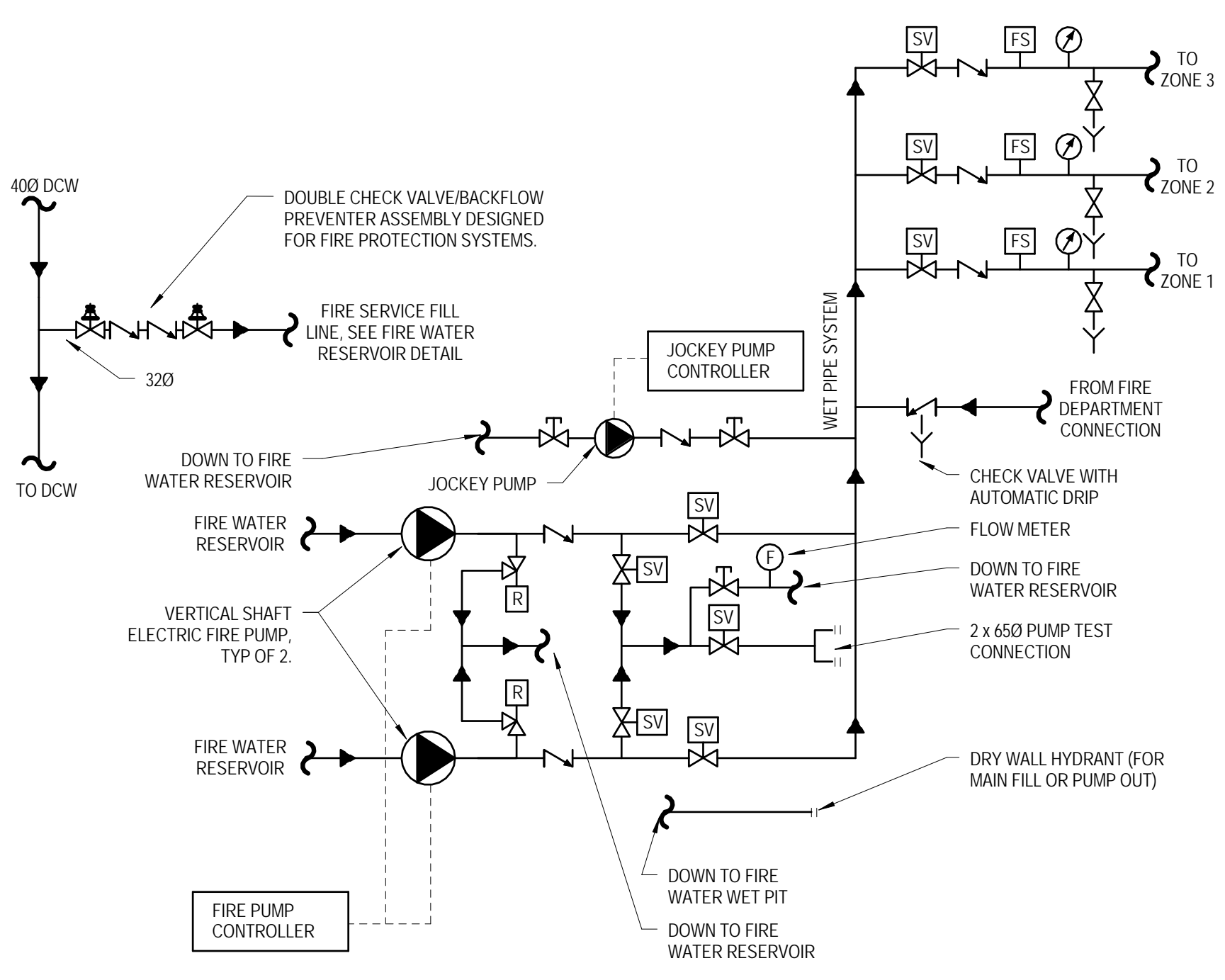


**5 SKYLIGHT AREA FIRE PROTECTION**  
 430 SCALE: 1:100

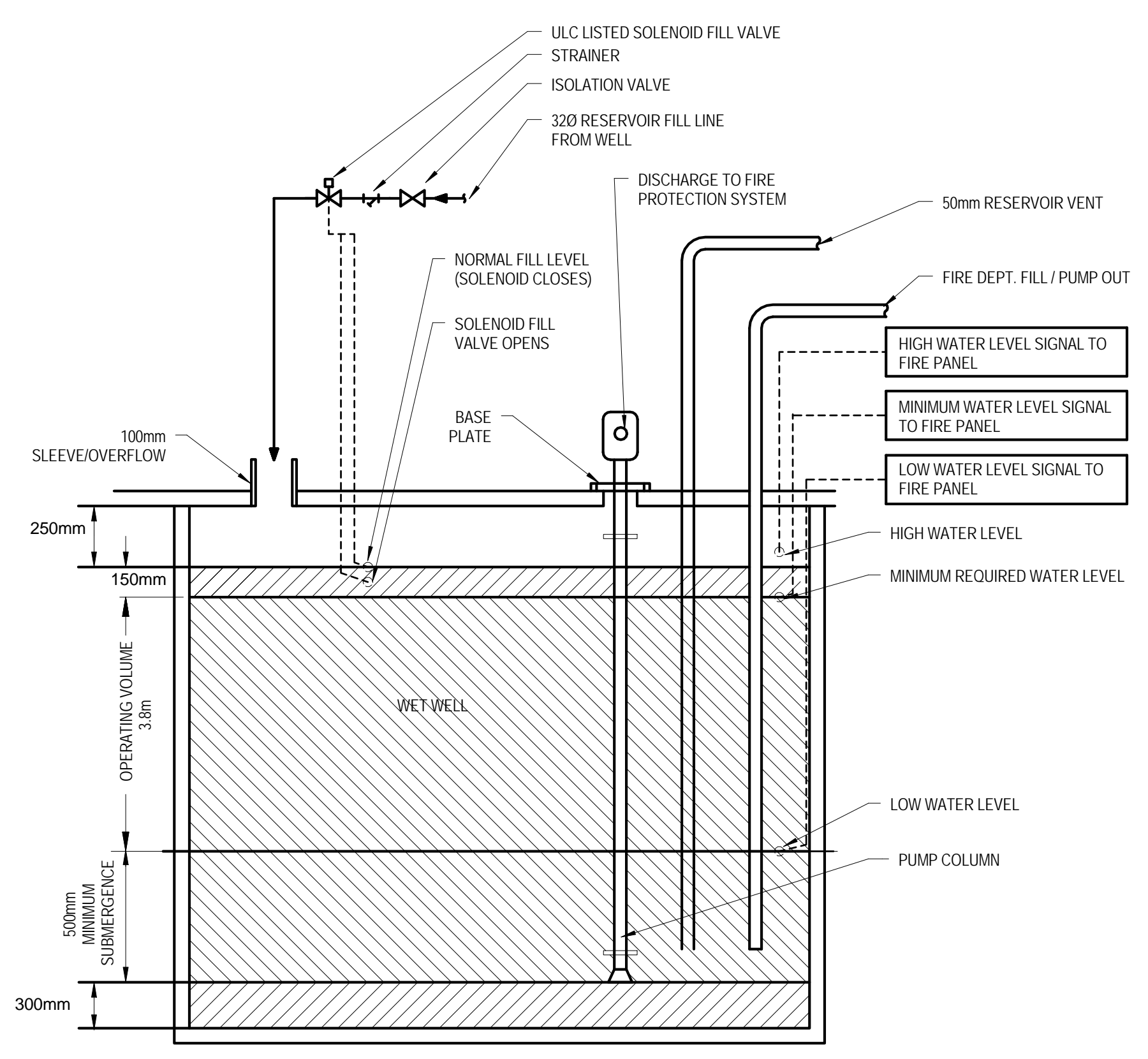
**1 Fire Protection**  
 430 SCALE: 1:100



**2 TYPICAL WET PIPE ZONE CONTROL & TEST CONNECTION**  
 430 SCALE: N.T.S.

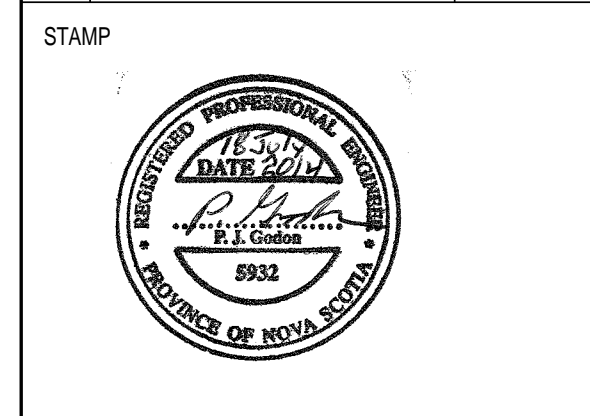


**3 SPRINKLER SERVICE SCHEMATIC**  
 430 SCALE: 1:1



**4 FIRE WATER RESERVOIR LEVEL CONTROL**  
 430 SCALE: 1:1

C02	ISSUED FOR TENDER	18 JUL 2014
NO.	REVISION	DATE



**INGONISH CIVIC BUILDING**  
 INCONISH, NS  
 DSRA JOB #: 12169  
 DRAWN BY: CDA  
 CHECKED BY: PG  
 SCALE: As indicated

**FIRE PROTECTION PLAN & DETAILS**

615876-0001-D-ME-0103-0036-01

