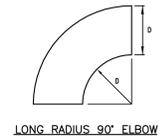
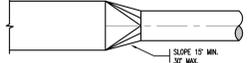


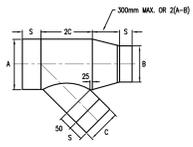
1 VIBRATION ISOLATORS  
SCALE: N.T.S.



LONG RADIUS 90° ELBOW

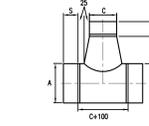


TYPICAL ROUND TO SQUARE TRANSITION



3 RECTANGULAR DUCT FITTINGS FOR SYSTEM PRESSURE 250 PA & LESS  
SCALE: N.T.S.

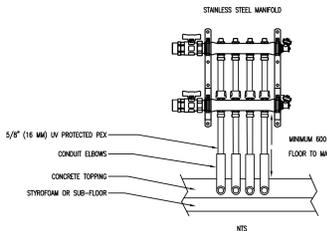
REDUCING LATERAL



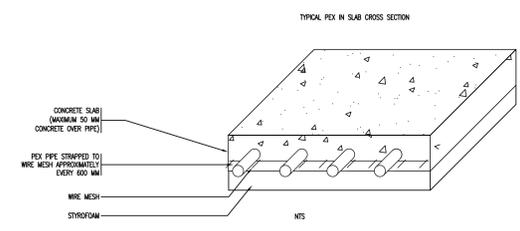
CONICAL TEE

- NOTES:  
1. PROVIDE BALANCING DAMPER ON ALL TEES TO AIR SUPPLY OUTLETS  
2. S=50mm

4 ROUND DUCT FITTINGS FOR SYSTEM PRESSURE 250 PA & LESS  
SCALE: N.T.S.



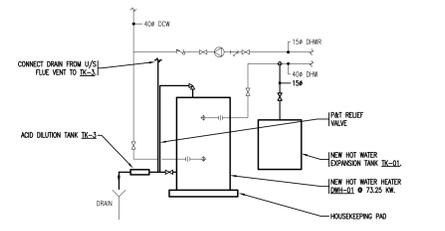
NTS



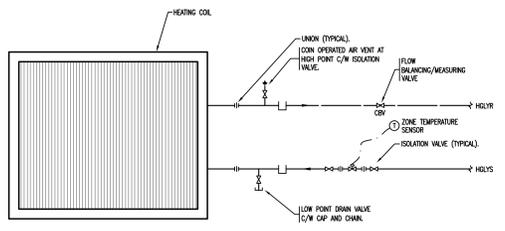
TYPICAL PEX IN SLAB CROSS SECTION

NTS

5 IN SLAB HEATING DETAILS  
SCALE: N.T.S.



6 DOMESTIC HOT WATER SCHEMATIC  
SCALE: N.T.S.



2 REHEAT COIL PIPING SCHEMATIC  
SCALE: N.T.S.

VIBRATION ISOLATION SCHEDULE					
ISOLATED EQUIPMENT	BASE	ISOLATOR		REMARKS	
DESCRIPTION	TYPE	THICKNESS (mm)	TYPE	STATIC DEFLECTION (mm)	
DOM. WATER HEATERS	-	-	-	NO ISOLATION REQUIRED	
HVY's - CEILING MOUNT	-	-	5 25	SUSPENDED FROM CEILING, ACCEPTABLE MATERIAL, BONNETS & ASSOCIATES	
DOMESTIC HOT WATER EXPANSION TANK	-	-	-	NO ISOLATION REQUIRED	

PUMP SCHEDULE											
UNIT NUMBER	SERVICE	LOCATION	MANUFACTURER	MODEL	CAPACITY (L/S)	HEAD PRESS. (M)	MOTOR KW	MOTOR HP	SIZE SUCT. (mm)	DIS. (mm)	DESCRIPTION/REMARKS
P-1	IN FLOOR HEATING	MEDICAL ROOM	ARMSTRONG	E-ET6	0.1500	4.5000	3000	0.1670	50	50	1150/1140/6040, BRONZE BODY

TANK SCHEDULE										
UNIT NUMBER	LOCATION	SERVICE	MANUFACTURER	MODEL	CAPACITY (L)	DIAMETER (mm)	LENGTH (mm)	RATED PRESSURE (KPa)	WORKING PRESSURE (KPa)	DESCRIPTION/REMARKS
T-1	MECHANICAL ROOM	DHW EXPANSION TANK	AMTROL	ST-20V-C	30.3	300	488	1034		

WATER HEATER SCHEDULE							
TAG	MANUFACTURER	MODEL	HIGH ALTITUDE INPUT (KW)	TANK CAPACITY (L)	TEMPERATURE RISE (°C)	RECOVERY RATE (L/HR)	REMARKS
WH-1	A.G. SMITH	BTH 250 A	73.2	379	56	1000	ASME CERTIFIED CONDENSING GAS WATER HEATER

AIR OUTLET SCHEDULE					
TAG	MANUFACTURER	MODEL	FINISH	CEILING TYPE	DESCRIPTION / REMARKS
S-1	PRICE	MSP/AF-1/B12	WHITE	N/A	300x300 SUPPLY GRILLE C/W 4 SIDED MOUNTING FRAME AND WHITE POWDER COAT. REFER TO DRAWING FOR MESH SIZING.
R-1	PRICE	MSP/AF-1/B12	WHITE	N/A	300x300 RETURN GRILLE C/W 4 SIDED MOUNTING FRAME AND WHITE POWDER COAT.

LOUVER SCHEDULE							
TAG	SERVICE	AIR FLOW (L/S)	MANUFACTURER	MODEL	MIN. FREE AREA (L/WH)	ACTIVE LOUVER SIZE (LxW) (LxW)	DESCRIPTION / REMARKS
L-1	HOT USED						
L-2	G/A & E/A		PRICE	DEB35	50%	300x300	

PREHEAT COIL SCHEDULE												
UNIT NUMBER	SERVICE	LOCATION	MANUFACTURER	MODEL	FINED DIMENSIONS (mm x mm)	AIR			HOT WATER		DESCRIPTION/REMARKS	
						E.T. (°C)	L.T. (°C)	FLOW (L/S)	MAX. P.D. (Pa)	E.T. (°C)	L.T. (°C)	
PHC-01	HEATING	ATTIC	ROSEMEX	WBH	305x305	-40	7.6	20	57	82.2	65.6	2.70kW CAPACITY
PHC-02	HEATING	ATTIC	ROSEMEX	WBH	305x305	-40	7.6	20	57	82.2	65.6	2.70kW CAPACITY

REHEAT COIL SCHEDULE												
UNIT NUMBER	SERVICE	LOCATION	MANUFACTURER	MODEL	FINED DIMENSIONS (mm x mm)	AIR			HOT WATER		DESCRIPTION/REMARKS	
						E.T. (°C)	L.T. (°C)	FLOW (L/S)	MAX. P.D. (Pa)	E.T. (°C)	L.T. (°C)	
RHC-01	HEATING	ATTIC	ROSEMEX	WBH	150x230	0	30	20	30	82.2	65.6	1.45kW CAPACITY
RHC-02	HEATING	ATTIC	ROSEMEX	WBH	150x230	0	30	20	30	82.2	65.6	1.45kW CAPACITY

PACKAGED HEAT RECOVERY VENTILATOR SCHEDULE							
TAG NUMBER	MANUFACTURER	MODEL	CAPACITY (L/S)	SP (Pa)	ELECTRICAL	REMARKS	
HRY-01	VMER	GOLD SERIES 1001 HRV	40	175	120V/1PH/60HZ	C/W PHC-01	
HRY-02	VMER	GOLD SERIES 1001 HRV	40	175	120V/1PH/60HZ	C/W PHC-02	

INFLOOR HEATING MANIFOLD SUMMARY													
MANUFACTURER	MANIFOLD	LOOPS	LOOP LENGTH (M)	FLOW (L/S)	PRE SPRING (KW)	KW	SQUARE METERS	ZV	MAN SIZE	TOTAL PRESSURE DROP (KPa)	STATUS	REMARKS	
HEAT LINK	D	2	68	0.053	150	2	18.6	2	20	6.90	LOCKABLE STAINLESS	2	C/W SST RECESSED PANEL, DO NOT INCLUDE PUMP OR MIXING VALVE.
HEAT LINK	E	2	68	0.053	150	2	18.6	2	20	6.90	LOCKABLE STAINLESS	2	C/W SST RECESSED PANEL, DO NOT INCLUDE PUMP OR MIXING VALVE.

PROFESSIONAL ENGINEER  
ALBERTA  
HEB REGISTERED NUMBER E 00231  
APPROVA PERMIT # 4520

NO.	REVISION/DESCRIPTION	DATE
5		
4		
3		
2	ISSUED FOR TENDER	2013 MAR15
1	TENDER ISSUE	2011 JUN16
0	Client Review	2011 FEB20

Client/Client  
**EDMONTON ALBERTA**  
**Correctional Services Canada**

11151 178 St. NW  
Edmonton, AB T5S 2N8

Project Title/Titre du projet

**EDMONTON INSTITUTION FOR WOMEN**  
**4 Unit ADDITION OF**  
**Structured Living Environment Unit (SLE)**

Approved by/Approve par  
DJC

Designed by/Concep par  
WMM

Drawn by/Dessiné par  
ZAB/WMM

Reviewed by/Examiné par  
DJC

PWSC Project Manager/Administrateur de Projets TPSC

PWSC, Architectural and Engineering Resources Manager/  
Ressources Architecturales et de Directeur d'Ingénierie, TPSC

Client/Client

Drawing Title/Titre du dessin

**MECHANICAL DETAILS**  
**AND SCHEDULES**

Project No./No. du projet <b>R.030502.001</b>	Sheet/Feuille <b>M2.0</b> 2 OF 2	Revision no./ No. Révision <b>0</b>
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