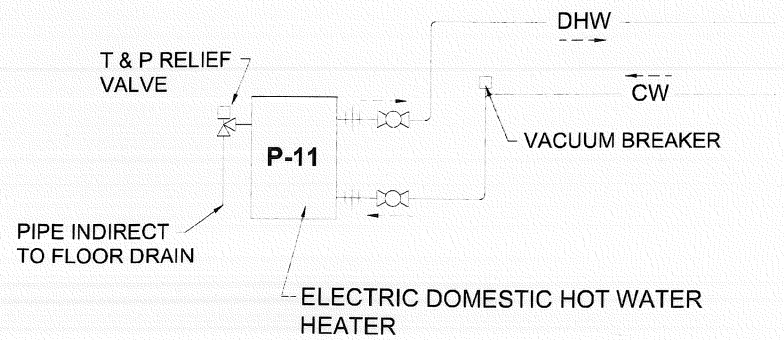


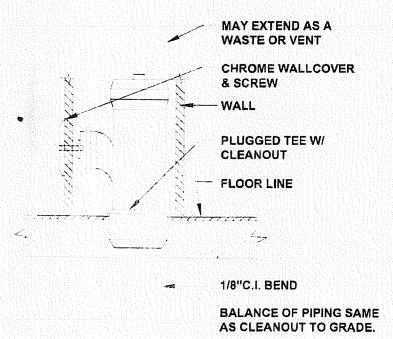
MANUFACTURER: A. O. SMITH		ELECTRIC DOMESTIC HOT WATER HEATER						
TAG	AREA SERVED BY HOT WATER	MODEL NO.	GALS	POWER	KW	CW	HW	NOTES
P-11	1ST & 2ND FLOOR LAVS AND SINK	ECS-40	52			1/2"	1/2"	1 AND 2

- NOTE:
1. PROVIDE ELECTRICAL POWER AND PLUMBING INSULATED CW AND DHW PIPING TO PLUMBING FIXTURES
 2. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS

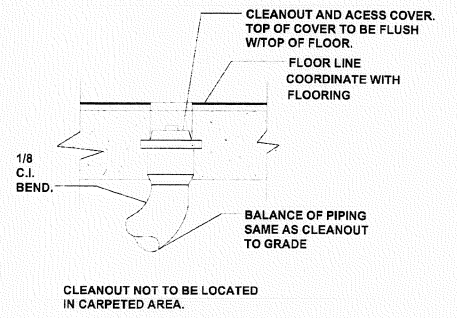
PLUMBING FIXTURE SCHEDULE								
ITEM	FIXTURE		WASTE	TRAP	VENT	CW	HW	NOTES
P-1	WATER CLOSET	ADA	4"	4"	2"	1"	---	
P-2	WATER CLOSET		4"	4"	2"	1"	---	
P-3	WALL HUNG LAVATORY	ADA	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	
P-4	DROP IN LAVATORY		1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	
P-5	SINGLE BOWL KITCHEN SINK		2"	1-1/2"	1-1/2"	1/2"	1/2"	
P-6	BAR SINK		2"	1-1/2"	1-1/2"	1/2"	1/2"	
P-7	DOUBLE BOWL SINK		2"	1-1/2"	1-1/2"	1/2"	1/2"	SMALLER BOWL RH
P-8	DOUBLE BOWL SINK		2"	1-1/2"	1-1/2"	1/2"	1/2"	
P-9	FIBERGLASS SHOWER UNIT		2"	1-1/2"	1-1/2"	1/2"	1/2"	MAXWELL SHOWER FAUCET
P-10	MOP SERVICE BASIN		2"	1-1/2"	1-1/2"	1/2"	1/2"	
P-11	ELECTRIC WATER HEATER					1/2"	1/2"	A.O.SMITH ProMax
P-12	NFHB HOSE BIB EXTERNAL					3/4"		
P-13	Preparation Room Equipment		3"	3"	1-1/2"			FURNISHED BY OWNER
P-14	EMERGENCY EYE WASH		2"	1-1/2"	1-1/2"	1/2"	1/2"	



DOMESTIC HOT WATER HEATER
NO SCALE



WALL CLEANOUT
NO SCALE



FLOOR CLEANOUT
NO SCALE

PLUMBING SCHEDULES AND DETAILS
NO SCALE

**DESIGN-BUILD PROGRESS
SUBMISSION FOR REVIEW AND PERMIT**

REVISIONS	SYM	DESCRIPTION	DATE

Engineer
WHITNEY ENGINEERING, P.A.
10 Danforth Street
Portland, Maine 04101

Mechanical Contractor
BELLINO-GROSSO, INC.
980 Riverside Street
Portland, Maine 04101



DESIGNED BY: RPW
DRAWN BY: LWL
CHECKED BY: RPW

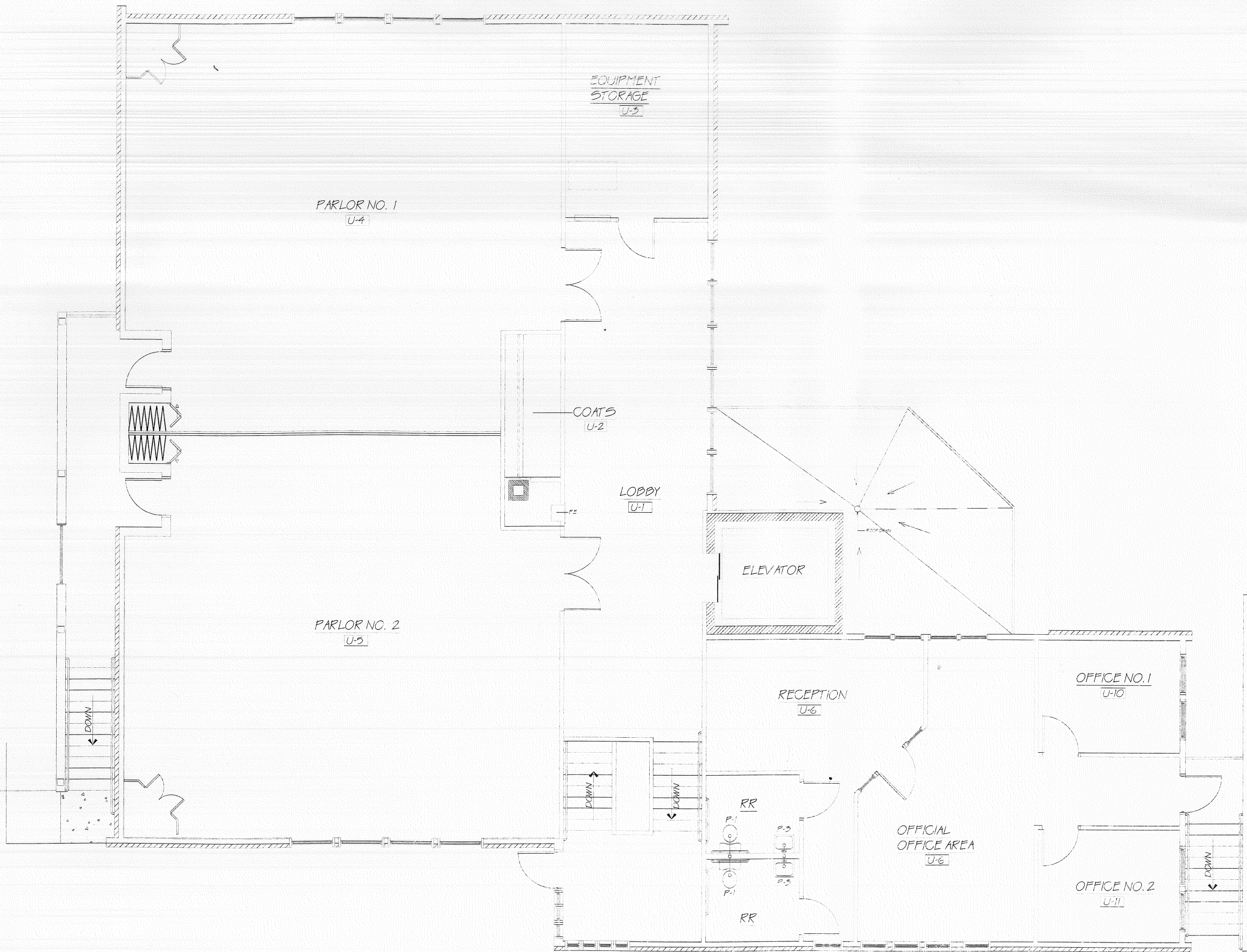
HUTCHINS FUNERAL HOME
Brighton Avenue
PORTLAND, MAINE
PLUMBING RENOVATION PLAN

COMMISSION NO.:
None Assigned

SCALE: NO SCALE
DATE:
OCTOBER 13, 2009

SHEET:
P-3

NO. OF SHEETS:
3 OF 3



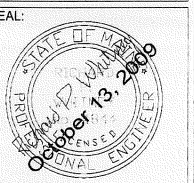
PLUMBING FLOOR PLAN UPPER LEVEL
 SCALE: 1/4" = 1'-0"

DESIGN-BUILD PROGRESS
SUBMISSION FOR REVIEW AND PERMIT

REVISIONS:	SYM	DESCRIPTION	DATE

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 10 Danforth Street
 Portland, Maine 04101

Mechanical Contractor
BELLINO-GROSSO, INC.
 980 Riverside Street
 Portland, Maine 04101



DESIGNED BY: RPW
 DRAWN BY: LWL
 CHECKED BY: RPW

HUTCHINS FUNERAL HOME

Brighton Avenue
 PORTLAND, MAINE

PLUMBING RENOVATION PLAN

COMMISSION NO.:
 None Assigned

SCALE: 1/4" = 1'-0"
 DATE:
 OCTOBER 13, 2009

SHEET:
P-2

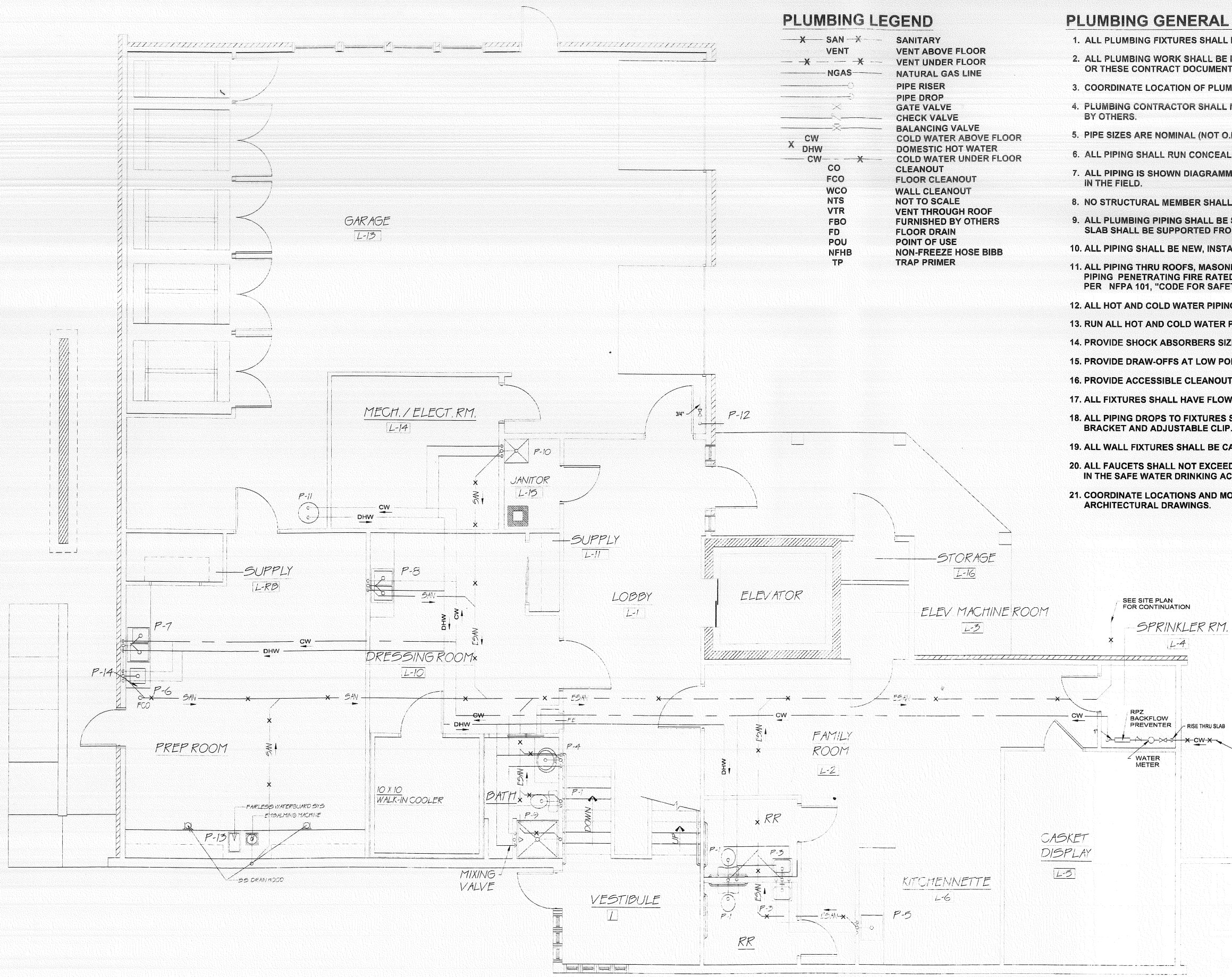
NO. OF SHEETS:
 2 OF 3

PLUMBING LEGEND

X SAN X	SANITARY
VENT	VENT ABOVE FLOOR
X VENT	VENT UNDER FLOOR
NGAS	NATURAL GAS LINE
PIPE RISER	PIPE RISER
PIPE DROP	PIPE DROP
GATE VALVE	GATE VALVE
CHECK VALVE	CHECK VALVE
BALANCING VALVE	BALANCING VALVE
CW	COLD WATER ABOVE FLOOR
DHW	DOMESTIC HOT WATER
CW X	COLD WATER UNDER FLOOR
CO	CLEANOUT
FCO	FLOOR CLEANOUT
WCO	WALL CLEANOUT
NTS	NOT TO SCALE
VTR	VENT THROUGH ROOF
FBO	FURNISHED BY OTHERS
FD	FLOOR DRAIN
POU	POINT OF USE
NFHB	NON-FREEZE HOSE BIBB
TP	TRAP PRIMER

PLUMBING GENERAL NOTES

1. ALL PLUMBING FIXTURES SHALL BE BACK VENTED.
2. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH STATE OF MAINE PLUMBING RULES OR THESE CONTRACT DOCUMENTS, WHICHEVER IS MORE STRICT.
3. COORDINATE LOCATION OF PLUMBING PIPING WITH OTHER TRADES.
4. PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO PLUMBING FIXTURES PROVIDED BY OTHERS.
5. PIPE SIZES ARE NOMINAL (NOT O.D.) UNLESS INDICATED OTHERWISE.
6. ALL PIPING SHALL RUN CONCEALED UNLESS SHOWN OTHERWISE.
7. ALL PIPING IS SHOWN DIAGRAMMATICALLY. ACTUAL LOCATIONS SHALL BE DETERMINED IN THE FIELD.
8. NO STRUCTURAL MEMBER SHALL BE CUT OR ALTERED WITHOUT APPROVAL OF ARCHITECT.
9. ALL PLUMBING PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE. ALL PIPING ABOVE SLAB SHALL BE SUPPORTED FROM TOP CHORD OF BAR JOISTS.
10. ALL PIPING SHALL BE NEW, INSTALLED PARALLEL TO BUILDING LINES AND PITCHED TO LOW POINTS.
11. ALL PIPING THRU ROOFS, MASONRY WALLS AND PARTITIONS SHALL HAVE PIPE SLEEVES. ALL PIPING PENETRATING FIRE RATED WALLS, FIRE PARTITIONS OR FLOORS SHALL BE CAST IRON OR COPPER PER NFPA 101, "CODE FOR SAFETY TO LIFE FROM FIRE IN BUILDINGS AND STRUCTURES", 2009 EDITION.
12. ALL HOT AND COLD WATER PIPING, BURIED OR OTHERWISE, SHALL BE INSULATED.
13. RUN ALL HOT AND COLD WATER PIPING ON WARM SIDE OF BUILDING INSULATION.
14. PROVIDE SHOCK ABSORBERS SIZED TO P.D.I. STANDARDS WHERE REQUIRED TO AVOID WATER HAMMER.
15. PROVIDE DRAW-OFFS AT LOW POINTS IN DOMESTIC WATER PIPING. PITCH PIPING TO DRAIN.
16. PROVIDE ACCESSIBLE CLEANOUTS AT BASE OF ALL STACKS AS SHOWN OR AS REQUIRED.
17. ALL FIXTURES SHALL HAVE FLOW RESTRICTORS AND BE WATER SAVING TYPES.
18. ALL PIPING DROPS TO FIXTURES SHALL BE ANCHORED SOLID TO WALLS WITH STEEL SUPPORT BRACKET AND ADJUSTABLE CLIP.
19. ALL WALL FIXTURES SHALL BE CARRIER MOUNTED UNLESS SPECIFIED OTHERWISE.
20. ALL FAUCETS SHALL NOT EXCEED AMOUNT OF LEAD SPECIFIED IN THE SAFE WATER DRINKING ACT.
21. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS.



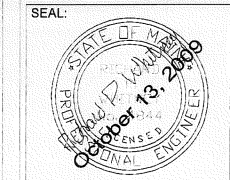
PLUMBING FLOOR PLAN LOWER LEVEL
SCALE: 1/4" = 1'-0"

DESIGN-BUILD PROGRESS
SUBMISSION FOR REVIEW AND PERMIT

REVISIONS:	SYM	DESCRIPTION	DATE

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10 Danforth Street
Portland, Maine 04101

Mechanical Contractor
BELLINO-GROSSO, INC.
980 Riverside Street
Portland, Maine 04101

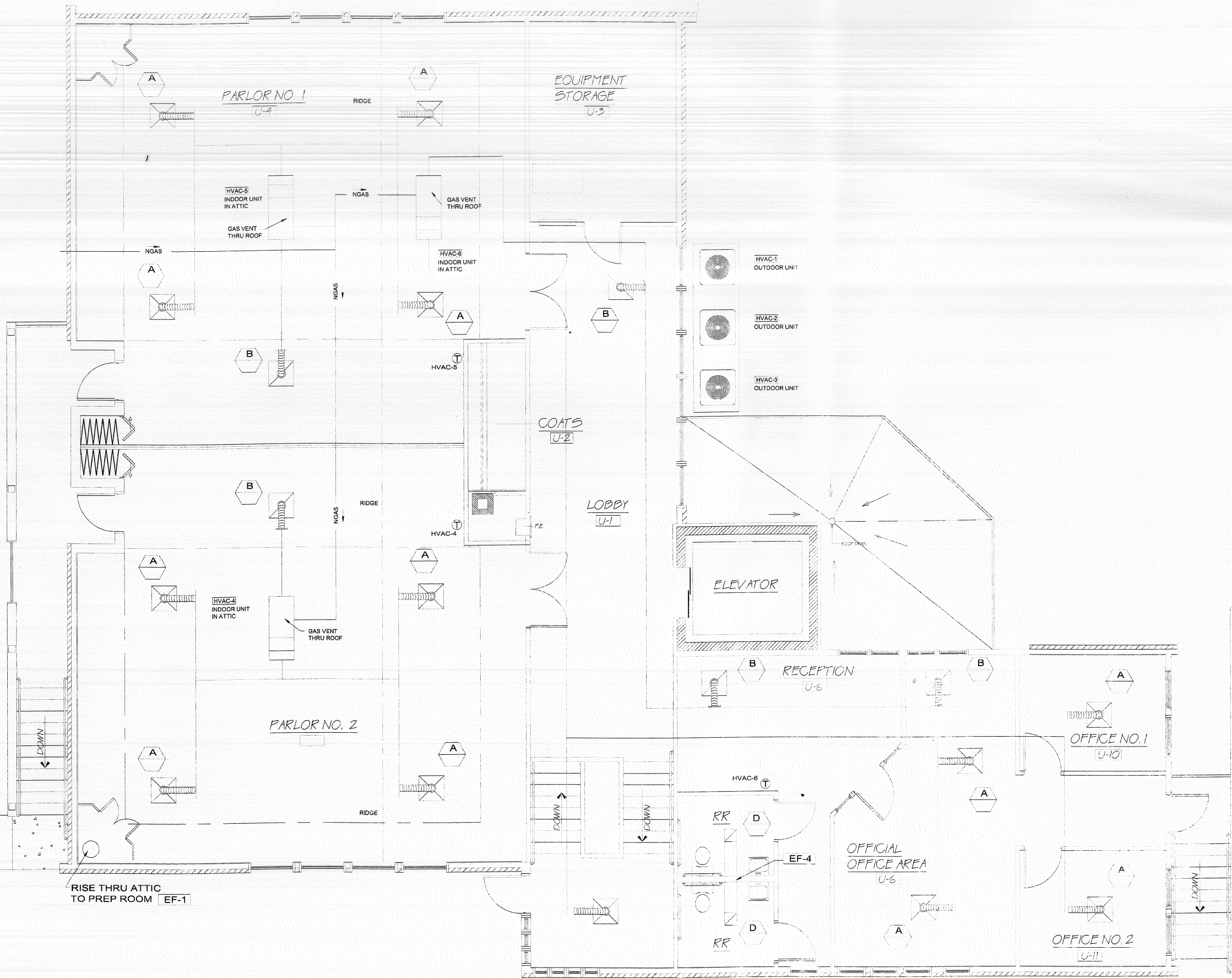


DESIGNED BY: RPW
DRAWN BY: LWL
CHECKED BY: RPW

HUTCHINS FUNERAL HOME
Brighton Avenue
PORTLAND, MAINE
PLUMBING RENOVATION PLAN

COMMISSION NO.: None Assigned
SCALE: 1/4" = 1'-0"
DATE: OCTOBER 13 2009

SHEET:
P-1
NO. OF SHEETS:
1 OF 3



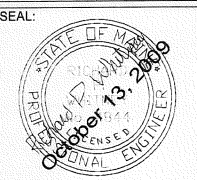
HVAC FLOOR PLAN UPPER LEVEL
SCALE: 1/4" = 1'-0"

DESIGN-BUILD PROGRESS
SUBMISSION FOR REVIEW AND PERMIT

REVISIONS:	SYM	DESCRIPTION	DATE

Engineer
WHITNEY ENGINEERING, P.A.
10 Danforth Street
Portland, Maine 04101

Mechanical Contractor
BELLINO-GROSSO, INC.
980 Riverside Street
Portland, Maine 04101



DESIGNED BY: RPW
DRAWN BY: LWL
CHECKED BY: RPW

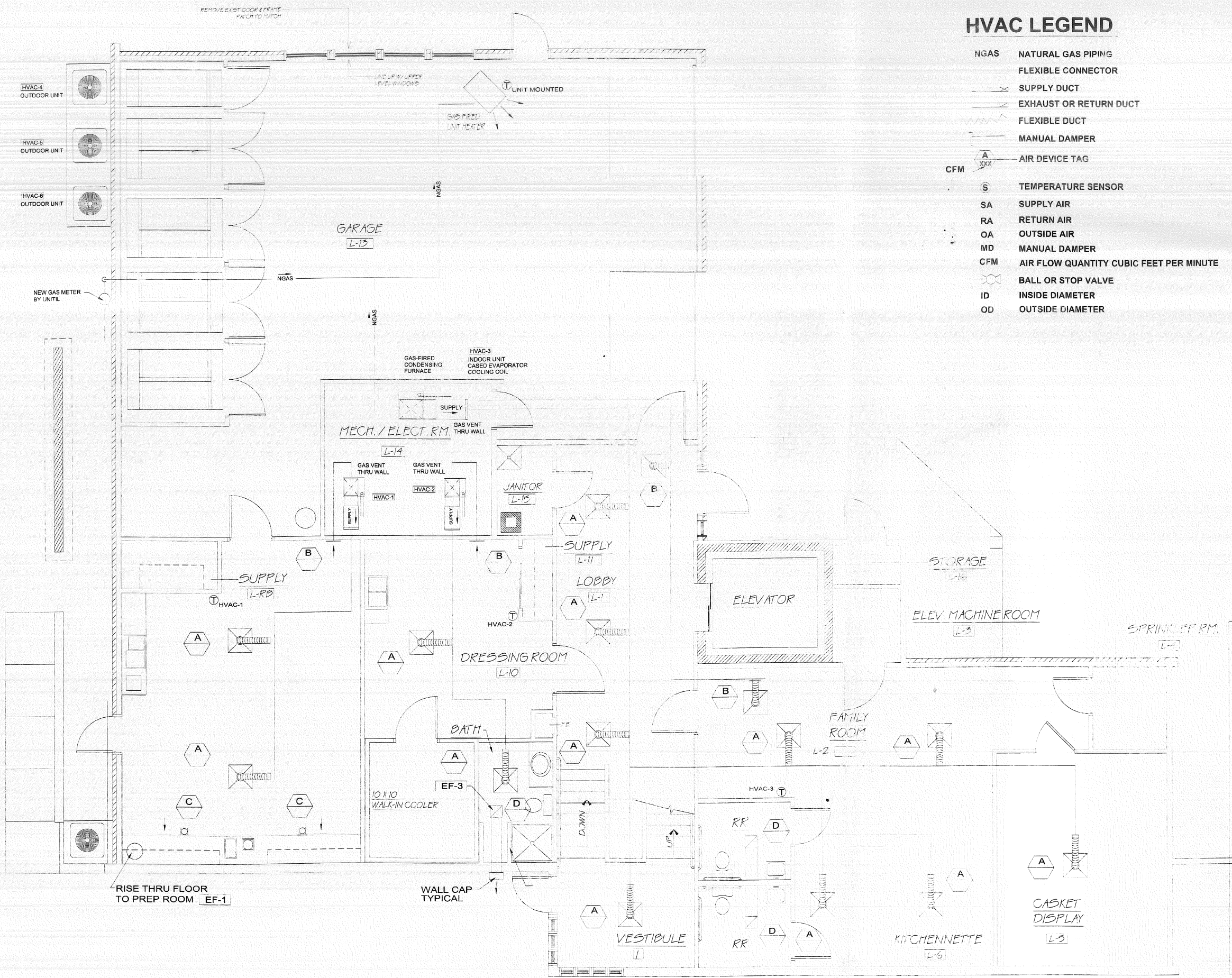
HUTCHINS FUNERAL HOME
Brighton Avenue
PORTLAND, MAINE
HVAC RENOVATION PLAN

COMMISSION NO.:
None Assigned

SCALE: 1/4" = 1'-0"
DATE:
OCTOBER 13, 2009

SHEET:
HVAC-2

NO. OF SHEETS:
2 OF 3



HVAC LEGEND

NGAS	NATURAL GAS PIPING
---	FLEXIBLE CONNECTOR
---	SUPPLY DUCT
---	EXHAUST OR RETURN DUCT
---	FLEXIBLE DUCT
---	MANUAL DAMPER
A XXX	AIR DEVICE TAG
S	TEMPERATURE SENSOR
SA	SUPPLY AIR
RA	RETURN AIR
OA	OUTSIDE AIR
MD	MANUAL DAMPER
CFM	AIR FLOW QUANTITY CUBIC FEET PER MINUTE
⊗	BALL OR STOP VALVE
ID	INSIDE DIAMETER
OD	OUTSIDE DIAMETER

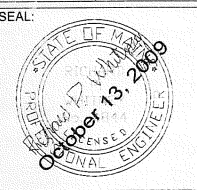
HVAC GENERAL NOTES

1. COORDINATE HVAC WORK WITH OTHER TRADES
2. ALL DUCTWORK SHALL BE CONCEALED AND LOCATED ON WARM SIDE OF BUILDING INSULATION
3. ALL DUCTWORK IS SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS ARE TO BE DETERMINED IN THE FIELD IN COORDINATION WITH OTHER TRADES.
4. ALL DUCT SIZES SHOWN ARE OUTSIDE DIMENSIONS.
5. COORDINATE LOCATION OF CEILING DIFFUSERS WITH CEILING GRID
6. PROVIDE BALANCING DAMPER IN ALL BRANCH CONNECTIONS
7. USE SPIN-IN FITTINGS AND DAMPERS WITH FLEX DUCT WHERE POSSIBLE
8. EXISTING GAS METER TO BE RELOCATED AS SHOWN UNLESS GAS COMPANY REDIRECTS
9. REVISE EXISTING EQUIPMENT PAD
10. ALL 3 "COMBUSTION AIR" INTAKE AIR FOR FURNACES WILL BE ROUTED UP THROUGH CHASE TO ROOF. COMBUSTION VENTS WILL BE CONCENTRIC
11. UNDERCUT OFFICE DOORS
12. AIR BALANCING DAMPERS REQUIRED ON ALL DIFFUSERS & RETURN AIR GRILLES
13. NO FLEX DUCT IN EXCESS OF 8'-LONG RUNS
14. AIR SUPPLY DUCT WILL BE WRAPPED
15. CONNECTION OF DUCTWORK TO EQUIPMENT WILL REQUIRE A FLEXIBLE CONNECTION

REVISIONS:	SYM	DESCRIPTION	DATE

Engineer: **WHITNEY ENGINEERING, P.A.**
 10 Danforth Street
 Portland, Maine 04101

Mechanical Contractor: **BELLINO-GROSSO, INC.**
 980 Riverside Street
 Portland, Maine 04101



DESIGNED BY: RPW
 DRAWN BY: LWL
 CHECKED BY: RPW

*666 Brighton
 # 091056
 224AA001*

RECEIVED

OCT 13 2009

Dept. of Building Inspections
 City of Portland Maine

HVAC FLOOR PLAN LOWER LEVEL
 SCALE: 1/4" = 1'-0"

DESIGN-BUILD PROGRESS
SUBMISSION FOR REVIEW AND PERMIT

HUTCHINS FUNERAL HOME
 Brighton Avenue
 PORTLAND, MAINE
 HVAC RENOVATION PLAN

COMMISSION NO.:	None Assigned
SCALE:	1/4" = 1'-0"
DATE:	OCTOBER 13, 2009
SHEET:	HVAC-1
NO. OF SHEETS:	1 OF 3

DIFFUSER/REGISTER/GRILLE SCHEDULE

UNIT	DESCRIPTION	SIZE	CFM	MAX NC	THROW (FT)	S.P.	PATTERN	NOTES
A	SUPPLY DIFFUSER			19	17'-8'-6"	0.010		
B	RETURN REGISTER	AS SHOWN	AS SHOWN	25	-	.05	4-WAY	
C	EXHAUST REGISTER	AS SHOWN	AS SHOWN	25	-	0.12	-	
D	CEILING EXHAUST REGISTER	AS SHOWN	AS SHOWN	25	-	.05	-	
E								

FAN SCHEDULE

TAG	SERVICE	CFM	ESP	HP	POWER	MAX SONES	NOTES
EF-1	PREP ROOM EXHAUST				115/60/1	5.0	1
EF-2	ROOM EXHAUST				115/60/1	5.0	1
EF-3	TOILET EXHAUST LOWER LEVEL BATH	75	0.375		115/60/1	5.0	2
EF-4	TOILET EXHAUST LOWER/UPPER LEVEL	75	0.375		115/60/1	5.0	3
EF-5	JAN. CLO. EXHAUST	75	0.375		115/60/1	5.0	2

NOTES:

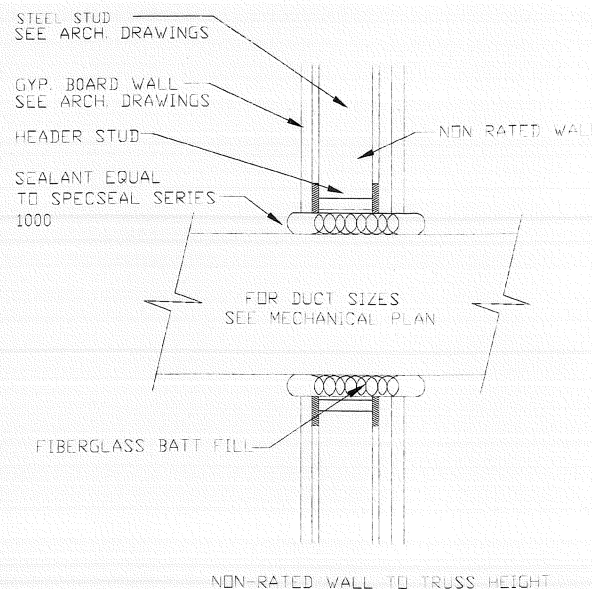
1. PROVIDE MANUAL OPERATED FAN SWITCH W/ PILOT LIGHT AND GRAVITY DAMPER AT ROOF HOOD
2. PROVIDE FAN-LIGHT-TIMER WALL SWITCH, GRAVITY DAMPER AND ROOF CAP
3. PROVIDE FAN-LIGHT-TIMER WALL SWITCH IN EACH RR W/ GRAVITY DAMPER AND ROOF CAP AT FAN

OUTDOOR HVAC UNIT SCHEDULE

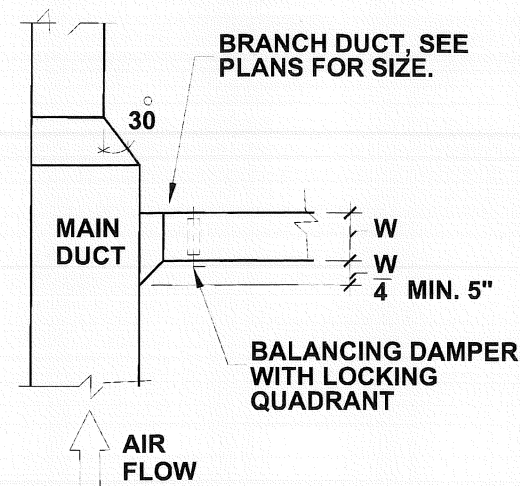
UNIT TAG	HVAC-1	HVAC-2	HVAC-3	HVAC-4	HVAC-5	HVAC-6
LOCATION	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR
SERVICE	A-COIL	A-COIL	A-COIL	A-COIL	A-COIL	A-COIL
MAKE	YORK, INC.	YORK, INC.	YORK, INC.	YORK, INC.	YORK, INC.	YORK, INC.
MODEL						
TYPE	AIR COOLED	AIR COOLED	AIR COOLED	AIR COOLED	AIR COOLED	AIR COOLED
COOL CAP	SENSIBLE MBH		SENSIBLE MBH		SENSIBLE MBH	
A-COIL	TOTAL MBH		TOTAL MBH		TOTAL MBH	
AMBIENT AIR F	85	85	85	85	85	85
MINIMUM SEER EFFICIENCY RATING						
ELECTRICAL	VOLTAGE	208/230	208/230	208/230	208/230	208/230
	HERTZ	60	60	60	60	60
	PHASE	1	1	1	1	1
	MCA					
	FUSE MAX AMPS					
	LOW AMBIENT	0F	0F	0F	0F	0F
WT. LBS.						
REMARKS	1. PROVIDE TXV VALVE AND R-410A REFRIGERANT					

INDOOR HVAC UNIT SCHEDULE

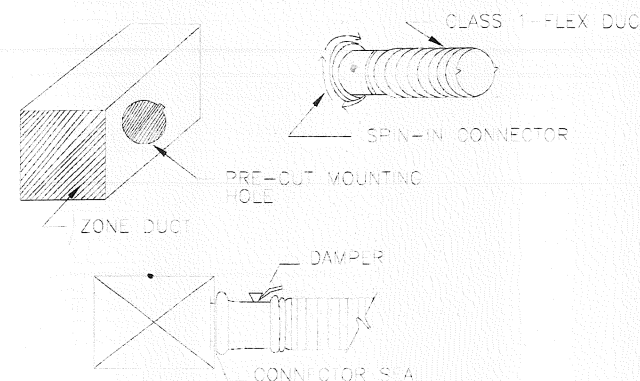
UNIT TAG	HVAC-1	HVAC-1	HVAC-1	HVAC-1	HVAC-1	HVAC-1
LOCATION						
SERVICE	HEATING & COOLING	HEATING & COOLING	HEATING & COOLING	HEATING & COOLING	HEATING & COOLING	HEATING & COOLING
MAKE	YORK INC.	YORK INC.	YORK INC.	YORK INC.	YORK INC.	YORK INC.
MODEL	2-TONS	1-1/2-TONS	5-TONS	5-TONS	5-TONS	5-TONS
C.F.M.						
EXT. S.P. IN W.C.	0.50	0.50	0.50	0.50	0.50	0.50
ENT. AIR DB °F	80	80	80	80	80	80
TEMP. WB °F	67	67	67	67	67	67
EVAP. TEMP °F	45	45	45	45	45	45
COOL CAP SENSIBLE						
A-COIL TOTAL						
HEATING INPUT MBH						
HEATING OUTPUT MBH						
FUEL/Firing Rate GPH	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS
MOTOR HP						
POWER	120/60/1	120/60/1	120/60/1	120/60/1	120/60/1	120/60/1
CONTROL AMPS	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
MAX. UNIT AMPS						
FUSE MAX						
MIN. O.A. CFM	0	0	0	0	0	0
DRIVE-SEE NOTE 2	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
WT. LBS.						
MIN. SEER	SEE OUTDOOR UNIT	SEE OUTDOOR UNIT	SEE OUTDOOR UNIT	SEE OUTDOOR UNIT	SEE OUTDOOR UNIT	SEE OUTDOOR UNIT
MIN. AFUE % RATING						
NOTES:	1. PROVIDE FURNACE WITH MULTI-SPEED FAN MOTOR					



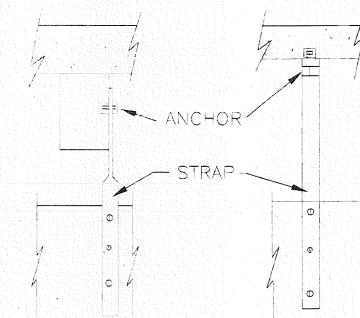
DUCT SOUND PENETRATION DETAIL
NO SCALE



DUCT BRANCH DETAIL
NO SCALE



DUCT SPIN-IN FITTING DETAIL
NO SCALE



MAX. SIDE OF DUCT TO 30" OVER 30"
STRAP SIZE 1"X1/8 GA. 1"X 1/8"
SPACING 10'-0" O.C. 10'-0" O.C.

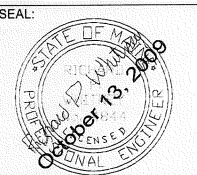
HVAC SCHEDULES AND DETAILS
NO SCALE

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HUTCHINS FUNERAL HOME
Brighton Avenue
PORTLAND, MAINE
HVAC RENOVATION PLAN

COMMISSION NO.:
None Assigned

SCALE: NO SCALE
DATE: OCTOBER 13, 2009

SHEET:
HVAC-3

NO. OF SHEETS:
3 OF 3