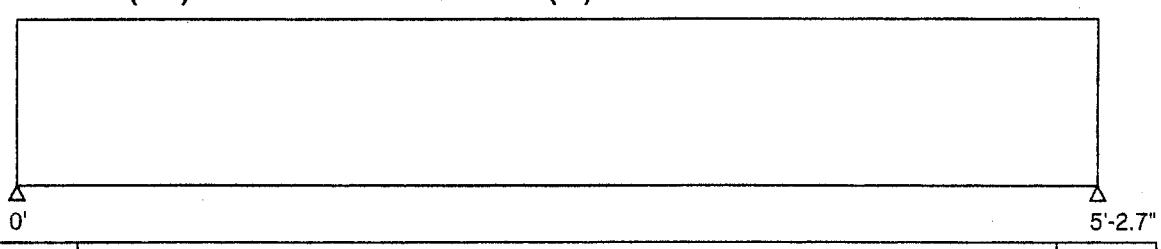
GOODLAM	**COMPANY** Goodlam Division Tel. 1-800-361-6503 Fax 1-450-635-3728 May 15, 2002 10:03:14	**PROJECT** Beam6.wwb

Design Check Calculation Sheet

LOADS: (lbs, psf, or plf)

Load	Type	Distribution	Magnitude Start	Magnitude End	Location [ft] Start	Location [ft] End	Pattern Load?
1	Live	Full UDL	368				No
2	Dead	Full UDL	119				No
3	Live	Full UDL	280				No
4	Dead	Full UDL	105				No
5	Live	Full UDL	280				No
6	Dead	Full UDL	105				No

MAXIMUM REACTIONS (lbs) and BEARING LENGTHS (in) :



Dead	859		859
Live	2423		2423
Total	3283		3283
Bearing:			
Length	2.1		2.1

WELDWOOD LVL, 1 3/4" Wide, 2.0E, 1-3/4x9-1/2", 1-ply

Load combinations: ASCE 7-95;

SECTION vs. DESIGN CODE NDS-1997: (lbs, lbs-ft, or in)

Criterion	Analysis Value	Design Value	Analysis/Design
Shear	V @d = 2288	Vr = 3159	V/Vr = 0.72
Bending(+)	M = 4286	Mr = 7004	M/Mr = 0.61
Live Defl'n	0.06 = <L/999	0.13 = L/480	0.48
Total Defl'n	0.10 = L/658	0.26 = L/240	0.36

ADDITIONAL DATA:

FACTORS:	F	CD	CM	Ct	CL	CF	CV	Cfu	Cr	LC#
Fb'+=	3100	1.00	1.00	1.00	1.000	1.03	1.000	1.00	1.00	2
Fv' =	285	1.00	1.00	1.00			(CH = 1.000)			2
Fcp'=	900		1.00	1.00						-
E' =	2.0 million		1.00	1.00						2

```
Bending(+): LC# 2 = D+L, M =  4286 lbs-ft
Shear     : LC# 2 = D+L, V = 3283, V@d = 2288 lbs
Deflection: LC# 2 = D+L   EI= 250.07e06 lb-in2
Total Deflection = 1.50(Dead Load Deflection) + Live Load Deflection.
  (D=dead  L=live  S=snow  W=wind  I=impact  C=construction  CLd=concentrated)
  (All LC's are listed in the Analysis output)
```

DESIGN NOTES:

1. Please verify that the default deflection limits are appropriate for your application.
2. BEAMS require restraint against lateral displacement and rotation at points of bearing
3. SCL-BEAMS: Structural Composite Lumber design has assumed: - dry service conditions - full lateral support - no preservative or fire-retardant treatment
- no notches - single member use (no load sharing) - the specified dead load is no greater than 1/2 the specified live load
4. BUILT-UP SCL-BEAMS: contact manufacturer's LVL user guide for connection details

HABITEC 2000 ®

Scale: NONE | Dr. by: S.B. | App. by:

Date: 08/07/2002

Plan: LVL DETAILS

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PROP

C— 07578

GOODLAM	COMPANY Goodlam Division Tel. 1-800-361-6503 Fax 1-450-635-3728 May 15, 2002 10:07:24	PROJECT Beam7.wwb

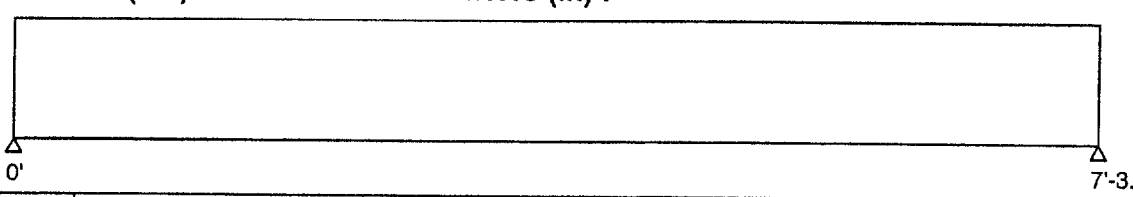
Design Check Calculation Sheet

7

LOADS: (lbs, psf, or plf)

Load	Type	Distribution	Magnitude Start	Magnitude End	Location [ft] Start	Location [ft] End	Pattern Load?
1	Live	Full UDL	280				No
2	Dead	Full UDL	105				No
3	Live	Point	3427		0.00		No
4	Dead	Point	1161		0.00		No

MAXIMUM REACTIONS (lbs) and BEARING LENGTHS (in) :



Dead	1543		382
Live	4445		1018
Total	5988		1400
Bearing:			
Length	3.8		1.0

WELDWOOD LVL, 1 3/4" Wide, 2.0E, 1-3/4x9-1/2", 1-ply

Load combinations: ASCE 7-95;

WARNING: point loads applied at support locations only affect maximum reactions and bearing lengths. The point loads have been added to the reactions without regard for load patterns.

SECTION vs. DESIGN CODE NDS-1997: (lbs, lbs-ft, or in)

Criterion	Analysis Value	Design Value	Analysis/Design
Shear	V @d = 1095	Vr = 3159	V/Vr = 0.35
Bending(+)	M = 2546	Mr = 7004	M/Mr = 0.36
Live Defl'n	0.07 = <L/999	0.18 = L/480	0.39
Total Defl'n	0.11 = L/792	0.36 = L/240	0.30

ADDITIONAL DATA:

FACTORS:	F		CD	CM	Ct	CL	CF	CV	Cfu	Cr	LC#
Fb'+=	3100		1.00	1.00	1.00	1.000	1.03	1.000	1.00	1.00	2
Fv' =	285		1.00	1.00	1.00			(CH = 1.000)			2
Fcp'=	900			1.00	1.00						-
E' =	2.0	million		1.00	1.00						2

Bending(+): LC# 2 = D+L, M = 2546 lbs-ft
Shear : LC# 2 = D+L, V = 1400, V@d = 1095 lbs
Deflection: LC# 2 = D+L EI= 250.07e06 lb-in2
Total Deflection = 1.50(Dead Load Deflection) + Live Load Deflection.
(D=dead L=live S=snow W=wind I=impact C=construction CLd=concentrated)
(All LC's are listed in the Analysis output)

DESIGN NOTES:

1. Please verify that the default deflection limits are appropriate for your application.
2. BEAMS require restraint against lateral displacement and rotation at points of bearing
3. SCL-BEAMS: Structural Composite Lumber design has assumed: - dry service conditions - full lateral support - no preservative or fire-retardant treatment
- no notches - single member use (no load sharing) - the specified dead load is no greater than 1/2 the specified live load
4. BUILT-UP SCL-BEAMS: contact manufacturer's LVL user guide for connection details

WOODBITEC 2000 ®

Scale: NONE | Dr. by: S.B. | App. by:

Date: 08/07/2002 | Plan: LVL DETAILS | Page 16J

49 HANOVER STREET PORTLAND

PROP

C- 07578

GOODLAM

COMPANY
Goodlam Division
Tel. 1-800-361-6503
Fax 1-450-635-3728

May 15, 2002 10:28:10

PROJECT

PLANCH-2.WWB

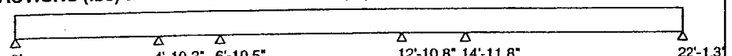
Design Check Calculation Sheet

LOADS: (lbs, psf, or plf)

Load	Type	Distribution	Magnitude Start	Magnitude End	Location [ft] Start	Location [ft] End	Pattern Load?
1	Live	Full UDL	368				Yes
2	Dead	Full UDL	119				No
3	Live	Full UDL	840				Yes
4	Dead	Full UDL	315				No

8

MAXIMUM REACTIONS (lbs) and BEARING LENGTHS (in) :



Dead	887		1501	1948		1119	2888		1253
Live	2504		6203	7036		6710	9757		3506
Uplift			522			2477			
Total	3391		7705	8983		7829	12645		4759
Bearing: Length	1.1		2.4	2.9		2.5	4.0		1.5

WELDWOOD LVL, 1 3/4" Wide, 2.0E, 1-3/4x9-1/2", 2-Plys

Load combinations: ASCE 7-95;

SECTION vs. DESIGN CODE NDS-1997: (lbs, lbs-ft, or in)

Criterion	Analysis Value	Design Value	Analysis/Design
Shear	V 0d = 5705	Vr = 6317	V/Vr = 0.90
Bending(+)	M = 6889	Mr = 14008	M/Mr = 0.49
Bending(-)	M = 8243	Mr = 14008	M/Mr = 0.59
Live Defl'n	0.08 = <L/999	0.18 = L/480	0.44
Total Defl'n	0.12 = L/720	0.36 = L/240	0.33

ADDITIONAL DATA:

FACTORS: F	CD	CM	Ct	CL	CF	CV	Cfu	Cr	LC#
Fb'+= 3100	1.00	1.00	1.00	1.000	1.03	1.000	1.00	1.00	22
Fb'-= 3100	1.00	1.00	1.00	1.000	1.03	1.000	1.00	1.00	26
Fv' = 285	1.00	1.00	1.00			(CH = 1.000)			26
Fcp'= 900		1.00	1.00						-
E' = 2.0 million	1.00	1.00							22

Bending(+): LC#22 = D+L (pattern: __L_L), M = 6889 lbs-ft
Bending(-): LC#26 = D+L (pattern: ___LL), M = 8243 lbs-ft
Shear : LC#26 = D+L (pattern: ___LL), V = 7005, V0d = 5705 lbs
Deflection: LC#22 = D+L (pattern: __L_L) EI= 500.14e06 lb-in2/ply
Total Deflection = 1.50(Dead Load Deflection) + Live Load Deflection.
(D=dead L=live S=snow W=wind I=impact C=construction CLd=concentrated)
(All LC's are listed in the Analysis output)
(Load Pattern: s=S/2, X=L+S or L+C, _=no pattern load in this span)

DESIGN NOTES:

1. Please verify that the default deflection limits are appropriate for your application.
2. BEAMS require restraint against lateral displacement and rotation at points of bearing
3. SCL-BEAMS: Structural Composite Lumber design has assumed: - dry service conditions - full lateral support - no preservative or fire-retardant treatment
- no notches - single member use (no load sharing) - the specified dead load is no greater than 1/2 the specified live load
4. BUILT-UP SCL-BEAMS: contact manufacturer's LVL user guide for connection details

GOODLAM

COMPANY
Goodlam Division
Tel. 1-800-361-6503
Fax 1-450-635-3728

May 15, 2002 10:23:46

PROJECT

PLANCH-1.WWB

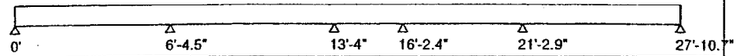
Design Check Calculation Sheet

LOADS: (lbs, psf, or plf)

Load	Type	Distribution	Magnitude Start	Magnitude End	Location [ft] Start	Location [ft] End	Pattern Load?
1	Live	Full UDL	368				Yes
2	Dead	Full UDL	119				No
3	Live	Full UDL	840				Yes
4	Dead	Full UDL	315				No

8

MAXIMUM REACTIONS (lbs) and BEARING LENGTHS (in) :



Dead	1053		3352		2352	1030		3162	1155
Live	3364		9452		8595	6500		8980	3423
Uplift						2603			
Total	4417		12804		10947	7530		12142	4578
Bearing: Length	1.4		4.1		3.5	2.4		3.9	1.5

WELDWOOD LVL, 1 3/4" Wide, 2.0E, 1-3/4x9-1/2", 2-Plys

Load combinations: ASCE 7-95;

SECTION vs. DESIGN CODE NDS-1997: (lbs, lbs-ft, or in)

Criterion	Analysis Value	Design Value	Analysis/Design
Shear	V 0d = 5269	Vr = 6317	V/Vr = 0.83
Bending(+)	M = 6383	Mr = 14008	M/Mr = 0.46
Bending(-)	M = 8117	Mr = 14008	M/Mr = 0.58
Live Defl'n	0.07 = <L/999	0.17 = L/480	0.41
Total Defl'n	0.10 = L/810	0.33 = L/240	0.30

ADDITIONAL DATA:

FACTORS: F	CD	CM	Ct	CL	CF	CV	Cfu	Cr	LC#
Fb'+= 3100	1.00	1.00	1.00	1.000	1.03	1.000	1.00	1.00	23
Fb'-= 3100	1.00	1.00	1.00	1.000	1.03	1.000	1.00	1.00	13
Fv' = 285	1.00	1.00	1.00			(CH = 1.000)			28
Fcp'= 900		1.00	1.00						-
E' = 2.0 million	1.00	1.00							23

Bending(+): LC#23 = D+L (pattern: L_L_L), M = 6383 lbs-ft
Bending(-): LC#13 = D+L (pattern: LL_L_), M = 8117 lbs-ft
Shear : LC#28 = D+L (pattern: _L_LL), V = 6569, V0d = 5269 lbs
Deflection: LC#23 = D+L (pattern: L_L_L) EI= 500.14e06 lb-in2/ply
Total Deflection = 1.50(Dead Load Deflection) + Live Load Deflection.
(D=dead L=live S=snow W=wind I=impact C=construction CLd=concentrated)
(All LC's are listed in the Analysis output)
(Load Pattern: s=S/2, X=L+S or L+C, _=no pattern load in this span)

DESIGN NOTES:

1. Please verify that the default deflection limits are appropriate for your application.
2. BEAMS require restraint against lateral displacement and rotation at points of bearing
3. SCL-BEAMS: Structural Composite Lumber design has assumed: - dry service conditions - full lateral support - no preservative or fire-retardant treatment
- no notches - single member use (no load sharing) - the specified dead load is no greater than 1/2 the specified live load
4. BUILT-UP SCL-BEAMS: contact manufacturer's LVL user guide for connection details

HABITEC 2000®

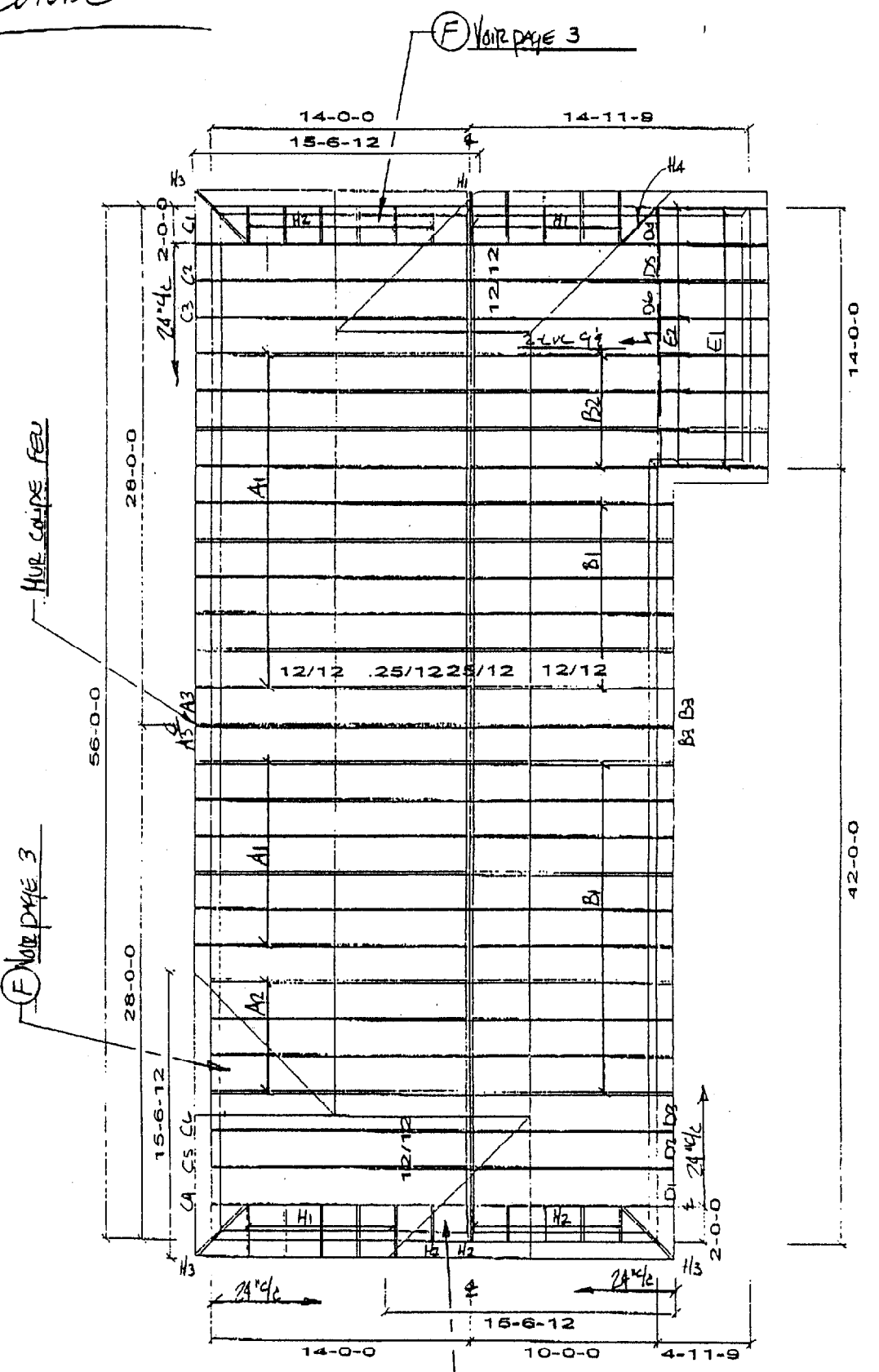
PROP

49 HANOVER STREET
PORTLAND

C– 07578

Scale:	Dr. by:	App. by:	Date:	Plan:	Page
NONE	S.B.		08/07/2002	LVL DETAILS	16K

AS CHARLES DE COUDE



Ancrages pour le vent requis dans ce projet voir pages suivantes:

APPUIS CONTINUS JUSQU'AU FONDATIONS
ATTENTION LES POTEAUX AU SOUS-SOL DOIVENT SUPPORTER LA CHARGE PROVENANT DU TOIT AINSI QUE LA CHARGE DE PLANCHER

LE CALCUL DE CETTE CHARGE RELEVE DE LA RESPONSABILITE DU CONSTRUCTEUR

200, rue du Parc
St-Joseph Beauce, Qc G0S 2V0
Tél.: (418) 397-5712 Fax: (418) 397-6952

Structures St-Joseph Ltée

200, rue Du Parc, C.P. 280
St-Joseph, Bce, Québec
G0S 2V0

Telephone: (418) 397-5712
Fax: (418) 397-6952

Habitec 2000

Destination: Portland, ME, USA
Neige au sol: 60 lbs/pi2
Charges mortes: 7 + 10 lbs/pi2
Client: Prop

Résidentiel, Fermes @ 24"c/c

Projet: 02-1127 #C-07578

Scale: 1 : 96 | Date: 2002-05-29 | Dessin

HABITEC 2000 ®

Scale: NONE
Dr. by: S.B.
App. by:
Date: 08/07/2002
Plan: TRUSS DETAILS
Page 17A

49 HANOVER STREET PORTLAND

C- 07578

PROP

Job	Truss	Truss Type	Qty	Ply	02-1127 Habitec #C-07578 (ME)
02-1127	A1	ROOF TRUSS	16	1	02U04148 (optional)

Structures St-Joseph Ltee, St-Joseph, Bce, Qc G0S 2V0, Richard 4.201 SR1 s Nov 16 2000 MiTek Industries, Inc. Thu May 30 14:29:05 2002 Page 1

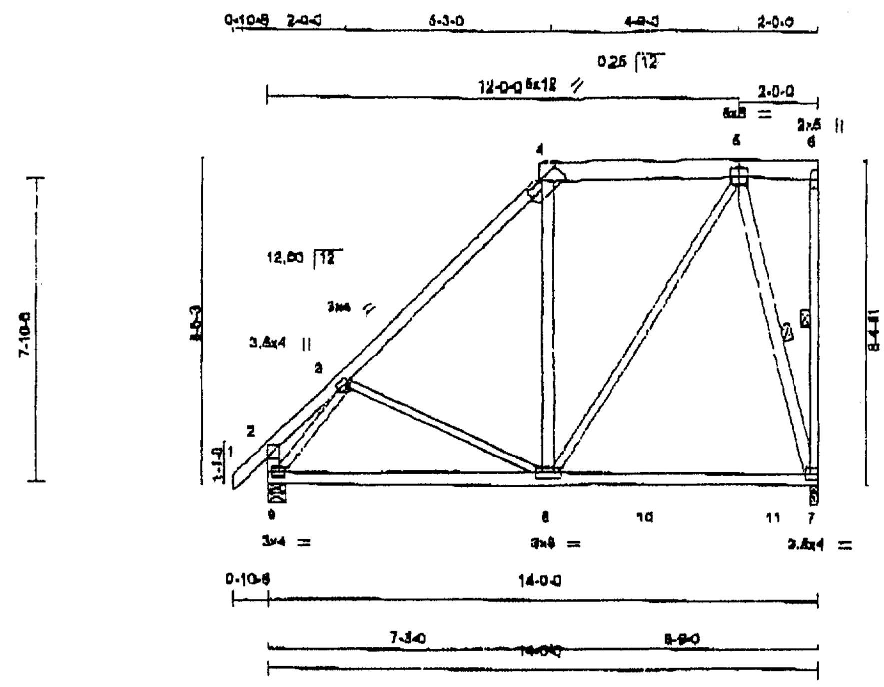


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Plate Offsets (X,Y): [4:0-8-0,0-0-11], [5:0-2-8,0-2-12], [7:Edge,0-1-12], [9:0-1-12,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	PLATES	GRIP
TCLL	52.6	Plates Increase	1.15	TC	0.56	Vert(LL)	-0.11	7-8	>999	MII20	197/144
TCDL	7.0	Lumber Increase	1.15	BC	0.64	Vert(TL)	-0.17	7-8	>999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.70	Horz(TL)	0.01	7	n/a		
BCDL	10.0	Code	BOCA/ANSI95	(Matrix)		1st LC LL Min l/defl = 360				Weight: 80 lb	

LUMBER
TOP CHORD 2 X 6 SPF No.2 *Except*
1-4 2 X 4 SPF No.2
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 3 SPF No.2 *Except*
5-7 2 X 4 SPF No.2, 2-9 2 X 4 SPF No.2
4-8 2 X 4 SPF No.2

BRACING
TOP CHORD Sheathed or 5-7-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-7-10 oc bracing.
WEBS 1 Row at midpt 6-7, 5-7

LOADING
UNIFORM SNOW LOAD = 42 PSF
UNBALANCED SNOW LOAD = 52.5 PSF

STATE OF MAINE — MAY 31 2002 — Ross S. Lee — 9604 — REGISTERED PROFESSIONAL ENGINEER

REACTIONS (lb/size) 7=1087/0-2-8, 9=1118/0-5-8
Max Horz 9=494(load case 3)
Max Uplift 7=-376(load case 3), 9=-288(load case 3)

FORCES (lb) - First Load Case Only
TOP CHORD 1-2=68, 2-3=56, 3-4=-819, 4-5=-529, 5-6=-12, 6-7=-50, 2-9=-199
BOT CHORD 8-9=819, 8-10=224, 10-11=224, 7-11=224
WEBS 3-8=-122, 5-8=544, 5-7=-929, 3-9=-1034, 4-8=-195

NOTES
1) This truss has been designed for the wind loads generated by 90 mph winds at 25 ft above ground level, using 6.0 psf top chord dead load and 6.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 58 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95 If end verticals exist, the left is exposed and the right is not exposed. If cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
2) Design load is based on 52.5 psf specified roof snow load.
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 376 lb uplift at joint 7 and 288 lb uplift at joint 9.
7) This truss has been designed with ANSI/TPI 1-1995 criteria.

MITEK CANADA, INC. GENERAL SPECIFICATIONS (U.S.A.) DATED APRIL 1, 1997 FORM AN INTEGRAL PART OF THIS DESIGN

MiTek Canada, Inc.
100 Industrial Rd., P.O. Box 1329
Bradford, Ontario, L3Z 2B7

LOADING AND DIMENSIONS SPECIFIED BY FABRICATOR, SUBJECT TO VERIFICATION BY AUTHORITIES IN JURISDICTION.

MiTek USA (Appelgnc_stuNoged\Drw_ussmHeter.crd)

HABITEC 2000®

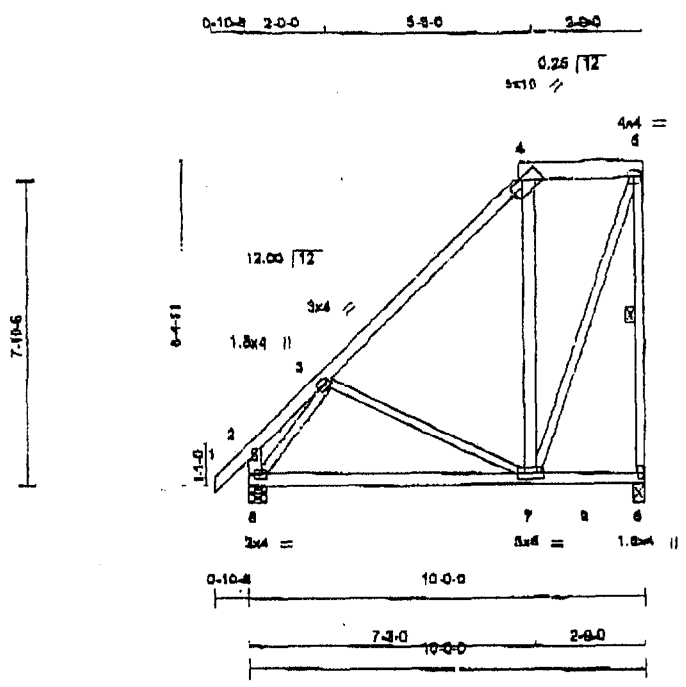
Scale: NONE	Dr. by: S.B.	App. by:	Date: 08/07/2002	Plan: TRUSS DETAILS	Page 17B

PROP
49 HANOVER STREET
PORTLAND
C- 07578

03/06 '02 LUN 08:48 FAX 418 397 6952 STRUCTURES ST-JOSEPH →→→ HABITEC ☑003

Job	Truss	Truss Type	Qty	Ply	02-1127 Habitec #C-07578 (ME)
02-1127	B1	ROOF TRUSS	18	1	(optional) 02U04150

Structures St-Joseph Ltee, St-Joseph, Bce, Qc G0S 2V0, Richard 4.201 SR1 s Nov 16 2000 MiTek Industries, Inc. Thu May 30 14:30:34 2002 Page 1



Scale = 1:55.3

STATE OF MAINE
MAY 31 2002
Ross S. Lee
9804
REGISTERED
PROFESSIONAL ENGINEER

Plate Offsets (X,Y): (4:0-5-0,0-0-11)

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	PLATES	GRIP
TCLL	52.5	Plates Increase	1.15	TC	0.70	Vert(LL)	-0.01	7	>999	MII20	197/144
TCDL	7.0	Lumber Increase	1.15	BC	0.51	Vert(TL)	-0.05	7-8	>999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(TL)	-0.00	6	n/a		
BCDL	10.0	Code	BOCA/ANSI95			1st LC LL Min l/defl = 360				Weight: 59 lb	

LUMBER
TOP CHORD 2 X 4 SPF No.2 *Except*
4-5 2 X 6 SPF No.2
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 3 SPF No.2 *Except*
2-8 2 X 4 SPF No.2, 4-7 2 X 4 SPF No.2

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-6-15 oc bracing.
WEBS 1 Row at midpt 5-6

LOADING
UNIFORM SNOW LOAD = 42 PSF
UNBALANCED SNOW LOAD = 52.5 PSF

REACTIONS (lb/size) 6=743/0-3-8, 8=805/0-5-8
Max Horz 8=494(load case 3)
Max Uplift 6=-362(load case 3), 8=-134(load case 3)

FORCES (lb) - First Load Case Only
TOP CHORD 1-2=43, 2-3=-0, 3-4=-257, 4-5=-177, 5-6=-674, 2-8=-223
BOT CHORD 7-8=339, 7-9=-0, 6-9=-0
WEBS 3-7=-175, 5-7=540, 3-8=-614, 4-7=-323

NOTES
1) This truss has been designed for the wind loads generated by 90 mph winds at 25 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 56 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95 If end verticals exist, the left is exposed and the right is not exposed. If cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind The lumber DOL increase is 1.33, and the plate grip increase is 1.33
2) Design load is based on 52.5 psf specified roof snow load.
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 362 lb uplift at joint 6 and 134 lb uplift at joint 8.
6) This truss has been designed with ANSI/TPI 1-1995 criteria.

MITEK CANADA, INC. GENERAL SPECIFICATIONS (U.S.A.) DATED APRIL 1, 1997 FORM AN INTEGRAL PART OF THIS DESIGN

MiTek Canada, Inc.
100 Industrial Rd., P.O. Box 1329
Bradford, Ontario, L3Z 2B7

LOADING AND DIMENSIONS SPECIFIED BY FABRICATOR, SUBJECT TO VERIFICATION BY AUTHORITIES IN JURISDICTION.

MiTek USA (Mppsignc_stu\logos\Dry_usa-wt-letter.crd)

HABITEC 2000®

PROP
49 HANOVER STREET
PORTLAND

C- 07578

Scale:	Dr. by:	App. by:	Date:	Plan:	Page
NONE	S.B.		08/07/2002	TRUSS DETAILS	17C

Job	Truss	Truss Type	Qty	Ply	02-1127 Habitec #C-07678 (ME)
02-1127	C1	ROOF TRUSS	1	1	02U04151 (optional)

Structures St-Joseph Ltee, St-Joseph, Bce, Qc G0S 2V0, Richard 4.281 8R1 s Nov 15 2000 MiTek Industries, Inc. Thu May 30 14:31:01 2002 Page 1

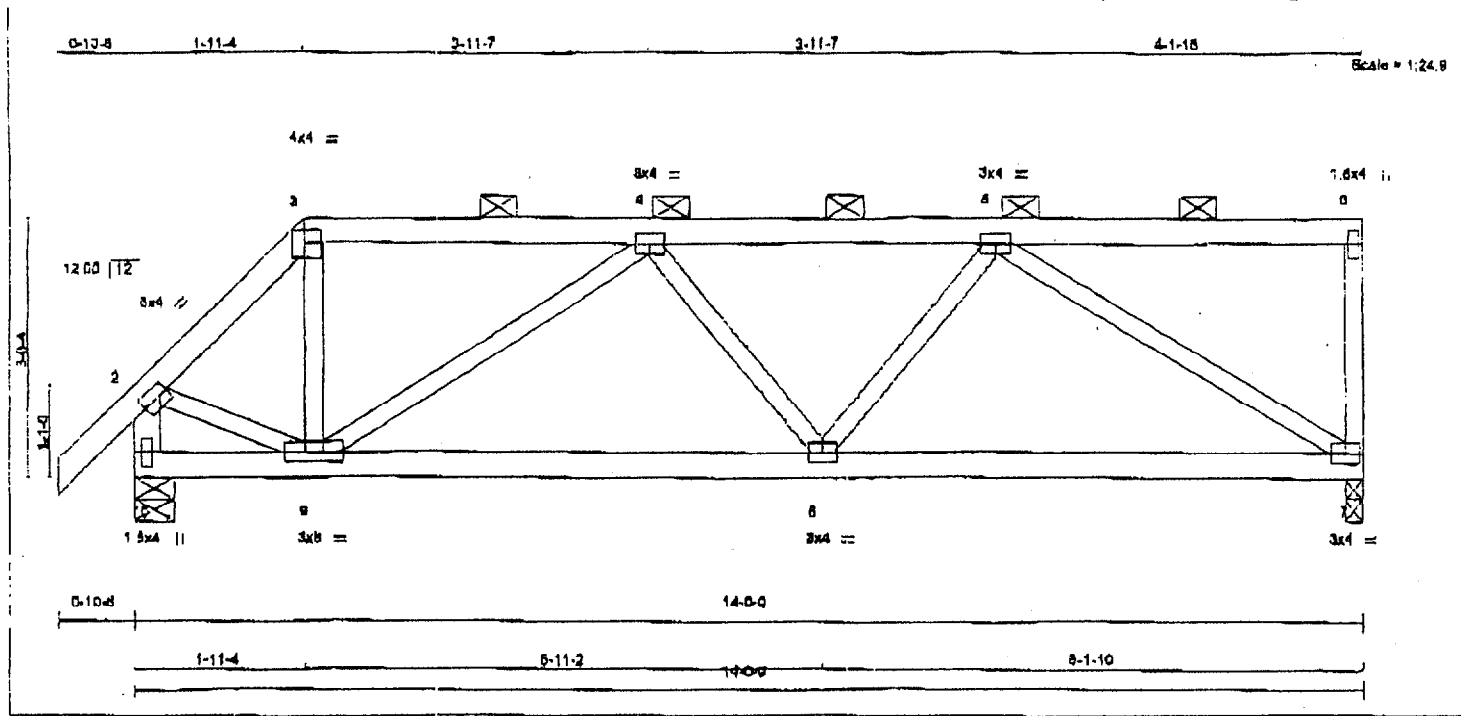


Plate Offsets (X,Y): [2:0-1-4,0-1-8], [3:0-2-4,0-1-12]

LOADING	(psf)	SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	PLATES	GRIP
TCLL	52.5	Plates Increase	1.15	TC	0.45	Vert(LL)	-0.04	6	>999	MII20	197/144
TCDL	7.0	Lumber Increase	1.15	BC	0.48	Vert(TL)	-0.07	6-9	>999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(TL)	0.02	7	n/a		
BCDL	10.0	Code	BOCA/ANSI95			1st LC LL Min l/defl = 360				Weight: 53 lb	

LUMBER
TOP CHORD 2 X 4 SPF No.2
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 3 SPF No.2 *Except*
2-10 2 X 4 SPF No.2

BRACING
TOP CHORD Sheathed or 6-0-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-0 max.): 3-6.
BOT CHORD Rigid ceiling directly applied or 6-11-13 oc bracing.

REACTIONS (lb/size) 7=956/0-2-8, 10=1077/0-5-8
Max Horz 10=241(load case 3)
Max Uplift 7=-315(load case 3), 10=-370(load case 3)

LOADING
UNIFORM SNOW LOAD = 42 PSF
UNBALANCED SNOW LOAD = 52.5 PSF

FORCES (lb) - First Load Case Only
TOP CHORD 1-2=43, 2-3=-660, 3-4=-570, 4-5=-1100, 5-6=0, 6-7=-241, 2-10=-1068
BOT CHORD 9-10=-0, 8-9=1143, 7-8=972
WEBS 3-9=225, 4-9=-793, 4-8=-73, 5-8=218, 5-7=-1171, 2-9=518

NOTES
1) This truss has been designed for the wind loads generated by 80 mph winds at 29 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 56 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95. If end verticals exist, the left is exposed and the right is not exposed. If cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
2) Design load is based on 52.5 psf specified roof snow load.
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at joint 7 and 370 lb uplift at joint 10.
7) This truss has been designed with ANSI/TPI 1-1995 criteria.
8) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

STATE OF MAINE
MAY 31 2002
Ross S. Lee
9604
REGISTERED PROFESSIONAL ENGINEER

MITEK CANADA, INC. GENERAL SPECIFICATIONS (U.S.A.) DATED APRIL 1, 1997 FORM AN INTEGRAL PART OF THIS DESIGN

MiTek Canada, Inc.
100 Industrial Rd., P.O. Box 1329
Bradford, Ontario, L3Z 2B7

LOADING AND DIMENSIONS SPECIFIED BY FABRICATOR. SUBJECT TO VERIFICATION BY AUTHORITIES IN JURISDICTION.

MiTek USA (M:\projects_sw\logos\Drw_usa-wi-letter.org)

HABITEC 2000 ®

Scale: NONE	Dr. by: S.B.	App. by:	Date: 08/07/2002	Plan: TRUSS DETAILS	Page 17D

49 HANOVER STREET
PORTLAND

PROP

C- 07578

Job	Truss	Truss Type	Qty	Ply	02-1127 Habitec #C-07578 (ME)	02U04152
02-1127	D1	ROOF TRUSS	1	1	(optional)	

Structures St-Joseph Ltee, St-Joseph, Bce, Qc G0S 2V0, Richard 4.201 SR1 s Nov 16 2000 MiTek Industries, Inc. Thu May 30 14:31:49 2002 Page 1

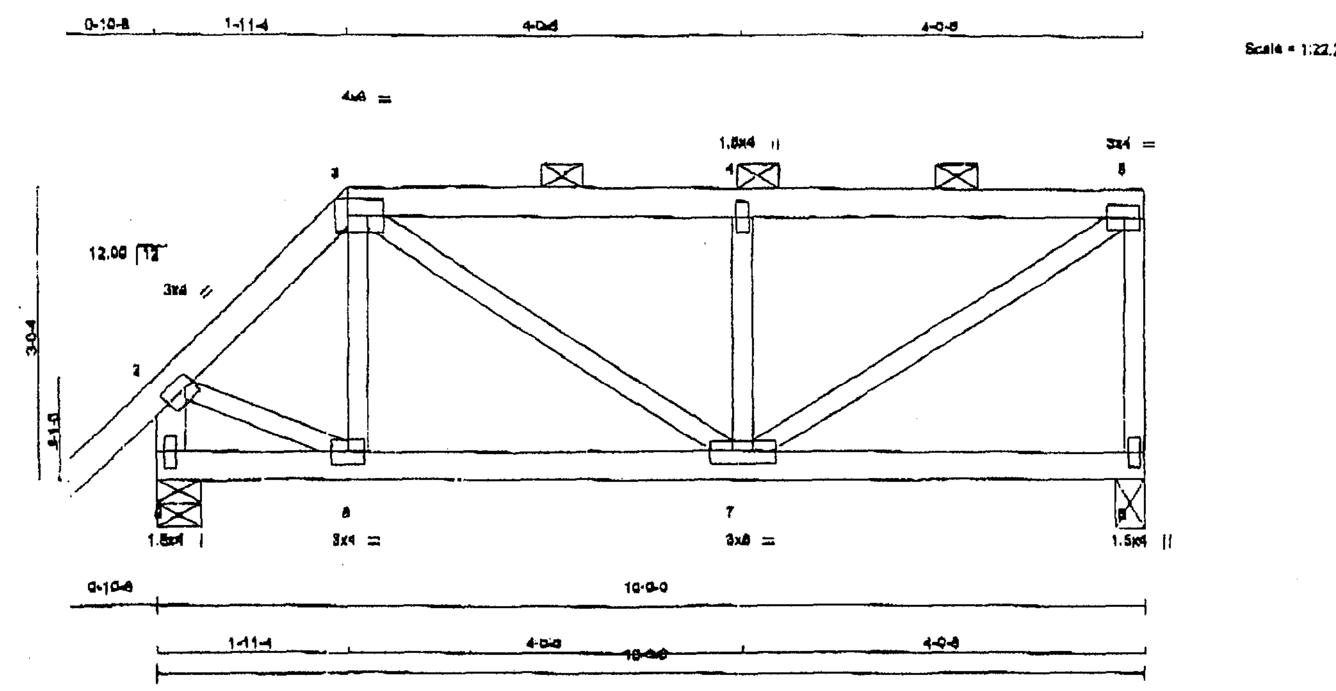


Plate Offsets (X,Y): [2:0-1-4,0-1-8], [3:0-4-8,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	PLATES	GRIP
TCLL	52.5	Plates Increase	1.15	TC	0.48	Vert(LL)	-0.02	7	>999	MII20	197/144
TCDL	7.0	Lumber Increase	1.15	BC	0.16	Vert(TL)	-0.02	7	>999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(TL)	0.00	6	n/a		
BCDL	10.0	Code	BOCA/ANSI95			1st LC LL Min l/defl = 360				Weight: 41 lb	

LUMBER
TOP CHORD 2 X 4 SPF No.2
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 3 SPF No.2 *Except*
2-9 2 X 4 SPF No.2

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=678/0-3-8, 9=788/0-5-8
Max Horz 9=241(load case 3)
Max Uplift 6=-238(load case 3), 9=-276(load case 3)

LOADING
UNIFORM SNOW LOAD = 42 PSF
UNBALANCED SNOW LOAD = 52.6 PSF

FORCES (lb) - First Load Case Only
TOP CHORD 1-2=43, 2-3=-532, 3-4=-582, 4-5=-582, 5-6=-636, 2-9=-780
BOT CHORD 8-9=-0, 7-8=369, 6-7=0
WEBS 3-8=-114, 3-7=257, 4-7=-469, 5-7=709, 2-8=411

NOTES
1) This truss has been designed for the wind loads generated by 90 mph winds at 25 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 58 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95 If end verticals exist, the left is exposed and the right is not exposed. If cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
2) Design load is based on 52.6 psf specified roof snow load.
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint 6 and 276 lb uplift at joint 9.
6) This truss has been designed with ANSI/TPI 1-1995 criteria.
7) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

STATE OF MAINE
MAY 31 2002
Rosa S. Lee
9804
REGISTERED PROFESSIONAL ENGINEER

MITEK CANADA, INC. GENERAL SPECIFICATIONS (U.S.A.) DATED APRIL 1, 1997 FORM AN INTEGRAL PART OF THIS DESIGN

MiTek Canada, Inc.
100 Industrial Rd., P.O. Box 1329
Bradford, Ontario, L3Z 2B7

LOADING AND DIMENSIONS SPECIFIED BY FABRICATOR, SUBJECT TO VERIFICATION BY AUTHORITIES IN JURISDICTION.

MiTek USA (\Apps\mc_su\logos\Ons_usa-wt-lower.crd)

HABITEC 2000®

Scale: NONE	Dr. by: S.B.	App. by:	Date: 08/07/2002	Plan: TRUSS DETAILS	Page 17E

PROP
49 HANOVER STREET
PORTLAND
C- 07578

Job	Truss	Truss Type	Qty	Ply	02-1127 Habitec #C-07578 (ME)
02-1127	E1	MONO HIP	6	1	02U04163 (optional)

Structures St-Joseph Ltee, St-Joseph, Bce, Qc G0S 2V0, Richard 4,201 SR1 s Nov 15 2000 MiTek Industries, Inc. Thu May 30 14:32:11 2002 Page 1

Scale = 1:23.8

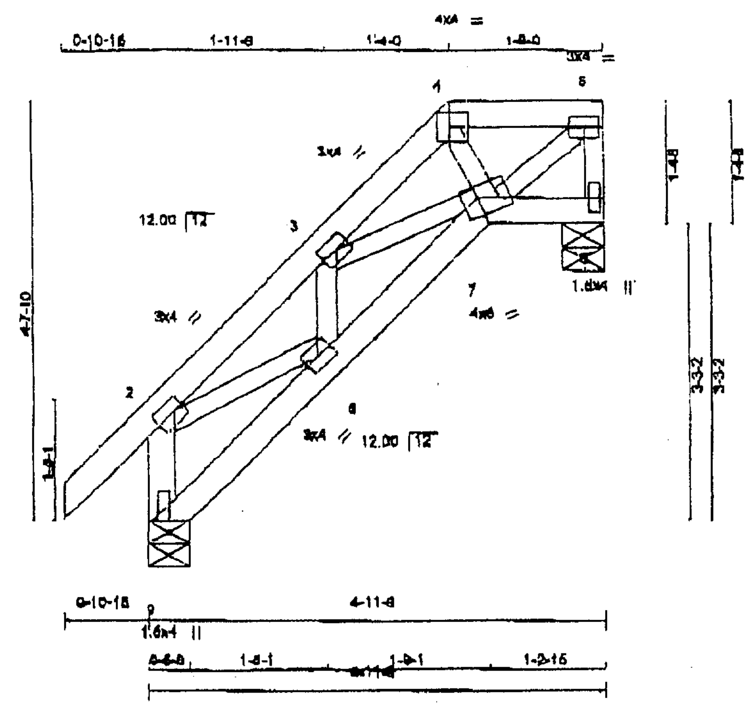


Plate Offsets (X,Y): [2:0-1-4,0-1-8], [3:0-1-12,0-1-8], [4:0-2-8,0-2-0], [7:0-3-0,0-2-8], [8:0-1-12,0-1-8]

LOADING (psf)		SPACING		CSI		DEFL	in	(loc)	l/defl	PLATES	GRIP
TCLL	52.5	Plates Increase	1.15	TC	0.21	Vert(LL)	0.01	8	>999	MII20	197/144
TCDL	7.0	Lumber Increase	1.15	BC	0.11	Vert(TL)	0.01	8	>999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(TL)	-0.01	6	n/a		
BCDL	10.0	Code	BOCA/ANSI95			1st LC LL Min l/defl = 360				Weight: 24 lb	

LUMBER
TOP CHORD 2 X 4 SPF No.2
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 3 SPF No.2 *Except*
2-9 2 X 4 SPF No.2

BRACING
TOP CHORD Sheathed or 4-11-9 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied or 8-0-0 oc bracing.

REACTIONS (lb/size) 6=327/0-5-8, 9=464/0-5-8
Max Horz 9=391(load case 3)
Max Uplift 6=-281(load case 3), 9=-39(load case 3)

LOADING
UNIFORM SNOW LOAD = 42 PSF
UNBALANCED SNOW LOAD = 52.5 PSF

FORCES (lb) - First Load Case Only
TOP CHORD 1-2=44, 2-3=-373, 3-4=-331, 4-5=-252, 5-6=-315, 2-9=-435
BOT CHORD 8-9=-1, 7-8=378, 6-7=0
WEBS 3-8=-166, 8-7=-33, 4-7=63, 2-8=272, 5-7=339

MAY 31 2002 — STATE OF MAINE — Ross S. Lee — 9604 — REGISTERED PROFESSIONAL ENGINEER

NOTES
1) This truss has been designed for the wind loads generated by 90 mph winds at 25 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 0 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 56 ft by 24 ft with exposure D ASCE 7-93 per BOCA/ANSI95 If end verticals exist, the left is exposed and the right is not exposed. If cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
2) Design load is based on 52.5 psf specified roof snow load.
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
5) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1-1995 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 281 lb uplift at joint 6 and 39 lb uplift at joint 9.
7) This truss has been designed with ANSI/TPI 1-1995 criteria.
8) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

MITEK CANADA, INC. GENERAL SPECIFICATIONS (U.S.A.) DATED APRIL 1, 1997 FORM AN INTEGRAL PART OF THIS DESIGN

MiTek Canada, Inc.
100 Industrial Rd., P.O. Box 1329
Bradford, Ontario, L3Z 2B7

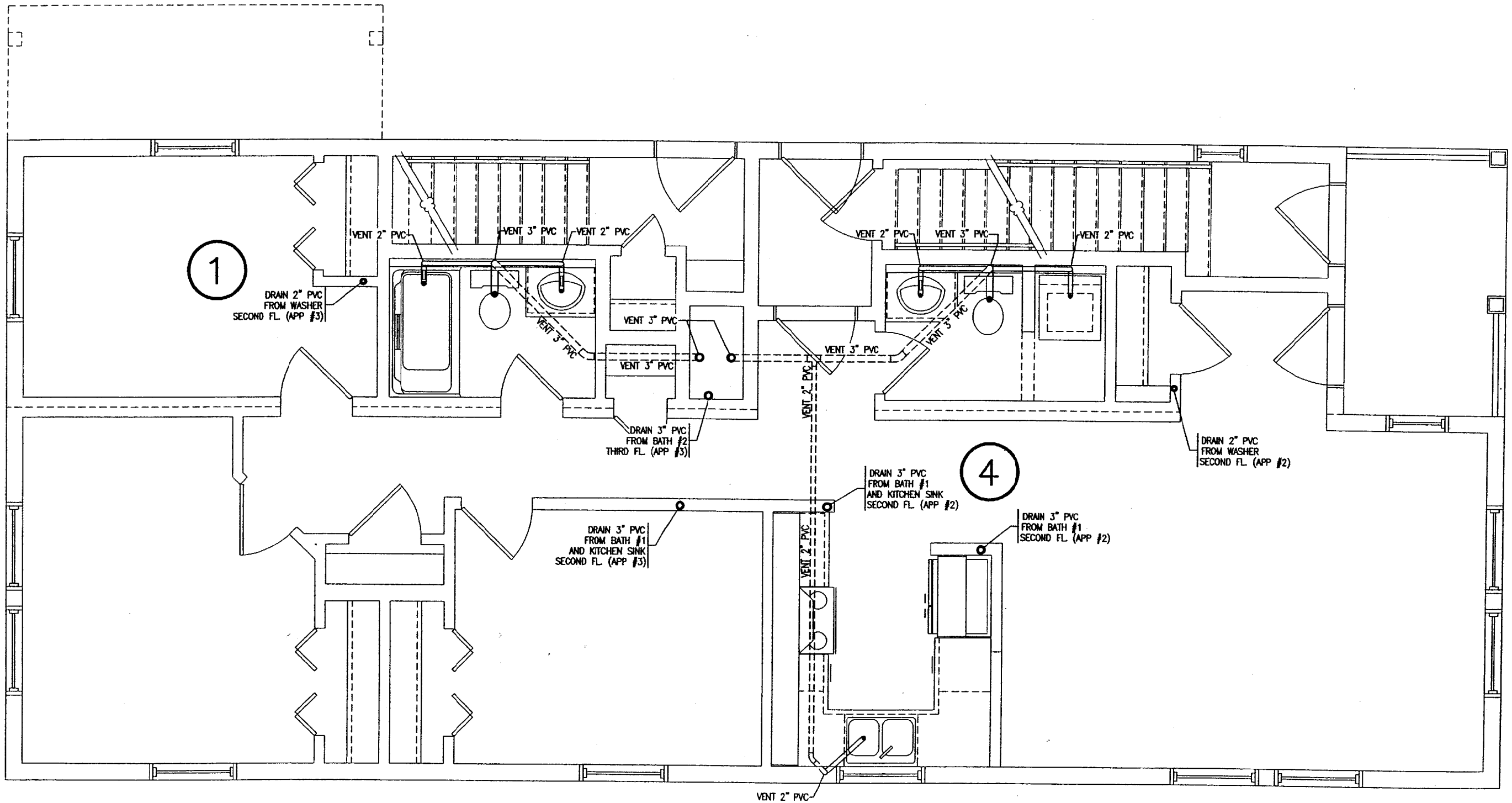
LOADING AND DIMENSIONS SPECIFIED BY FABRICATOR SUBJECT TO VERIFICATION BY AUTHORITIES IN JURISDICTION.

MiTek USA (Mppslgnc_stunlogos\DW_Use-wHgeev.crd)

HABITEC 2000®

Scale: NONE | Dr. by: S.B. | App. by: | Date: 08/07/2002 | Plan: TRUSS DETAILS | Page 17F

PROP
49 HANOVER STREET
PORTLAND
C- 07578



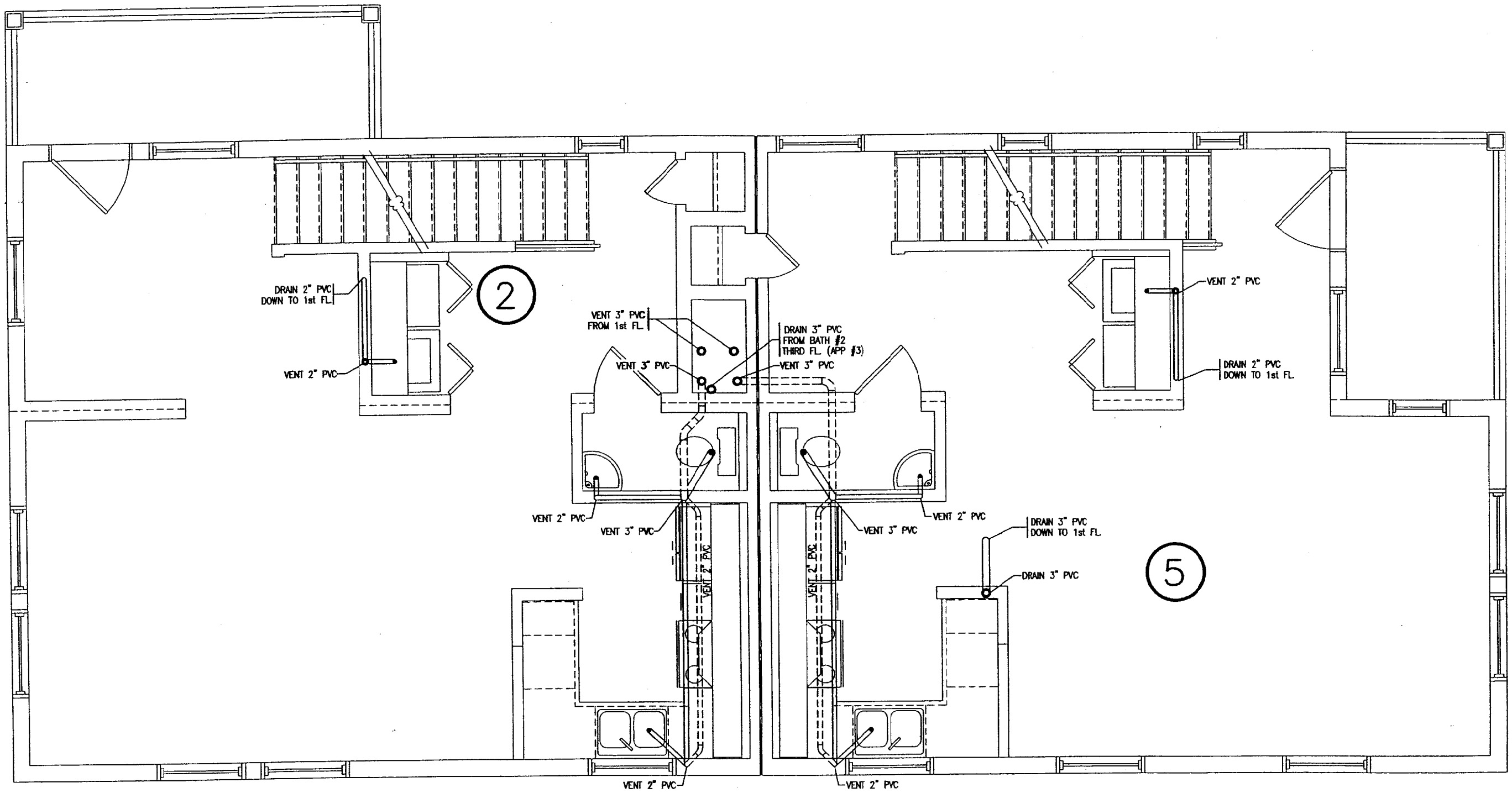
HABITEC 2000®

PROP

49 HANOVER STREET
PORTLAND

C– 07578

Scale:	Dr. by:	App. by:	Date:	Plan:	Page
1/4"=1'–0"	S.B.		08/09/2002	PLUMBING FIRST FL.	18A



VENT PIPING

DRAIN PIPING

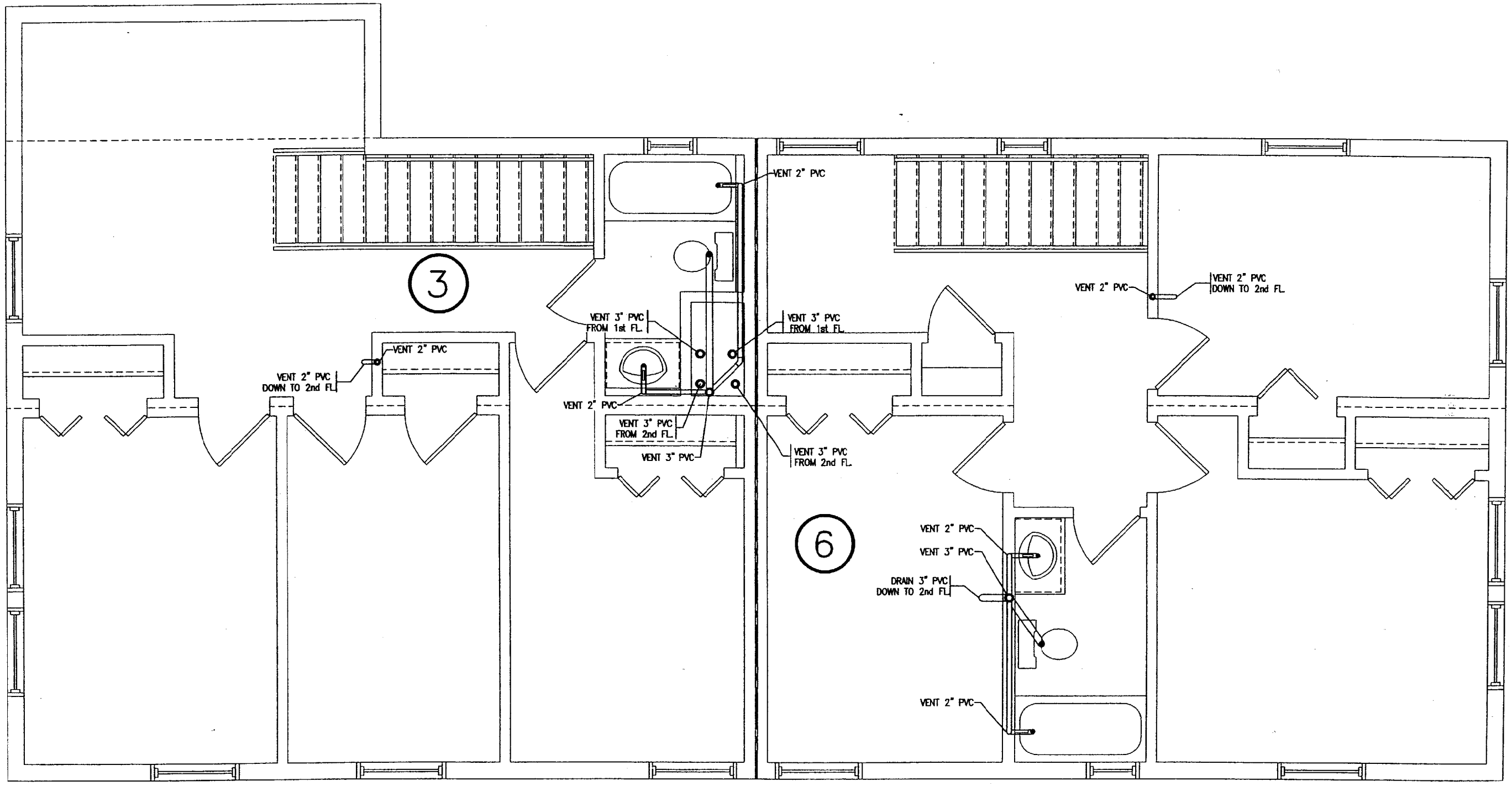
HABITEC 2000®

PROP

49 HANOVER STREET
PORTLAND

C– 07578

Scale:	Dr. by:	App. by:	Date:	Plan:	Page
1/4"=1'-0"	S.B.		08/09/2002	PLUMBING SECOND FL.	18B



====== VENT PIPING

DRAIN PIPING

HABITEC 2000®

PROP

49 HANOVER STREET
PORTLAND

C– 07578

Scale: 1/4"=1'–0"

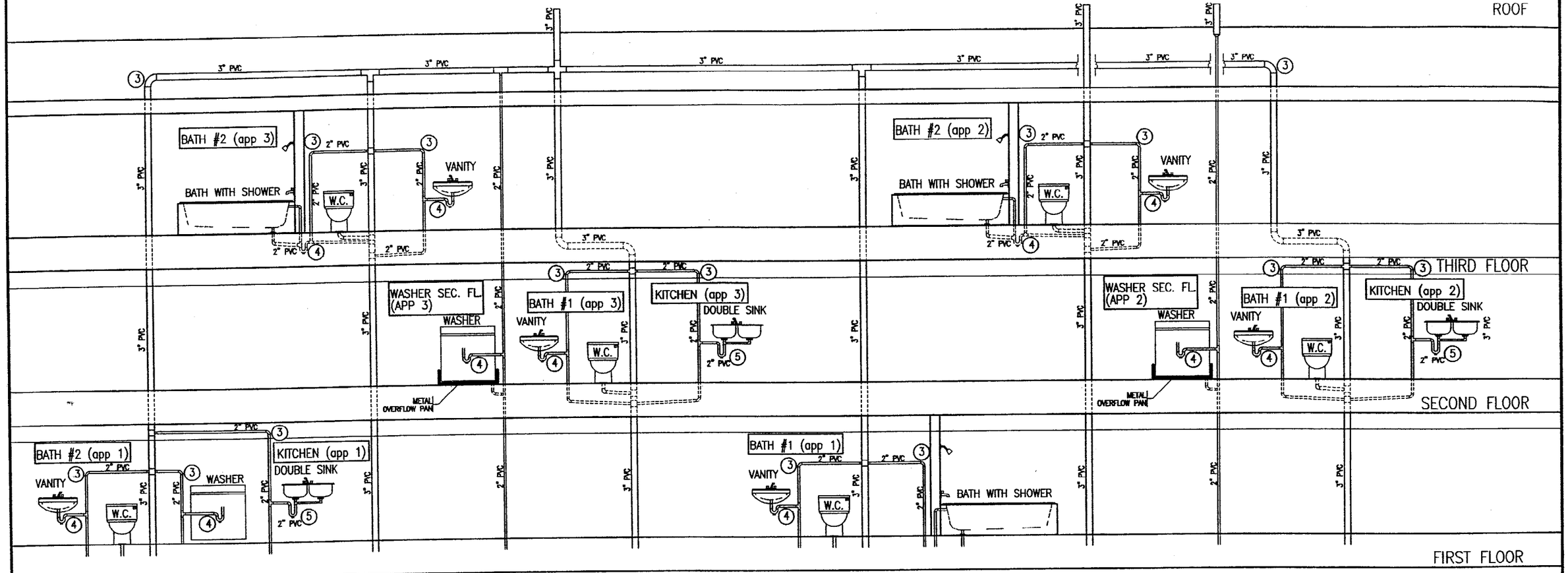
Dr. by: S.B.

App. by:

Date: 08/09/2002

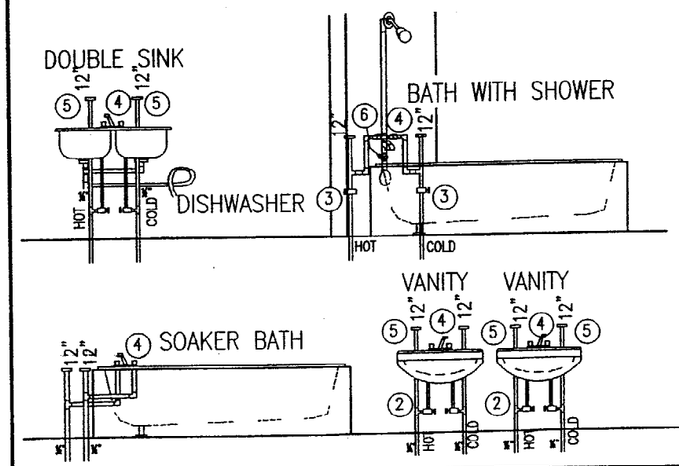
Plan: PLUMBING THIRD FL.

Page 18C

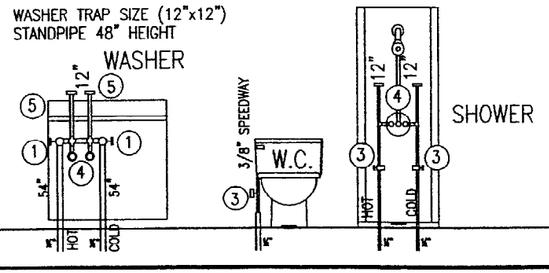


CROSS SECTION (NOT TO SCALE)

*ALL PIPING IN 2nd FLOOR AND BELOW 1st FLOOR DONE BY OTHERS ON SITE



WATER SUPPLY PIPING MATERIAL DONE BY OTHERS ON SITE. SEE BELOW FOR FACTORY INSTALL



WATER SUPPLY PIPING SUPPORT WITH 1/2" COPPER CLIP OR 1/2" COPPER STRAPPING AT EVERY 48". FOR VERTICAL PIPING AND INSIDE STUD FOR HORIZONTAL PIPING

COPPER PIPES TYPE "L"

LEGEND		
①		WYE TEE LONGTURN
②		SANITARY TEE
③		ELBOW 90 DEG. (LONG TURN FOR DRAINAGE)
④		P TRAP UNION AND CLEANOUT
⑤		P TRAP UNION AND CLEANOUT

LEGEND		
①		VALVE WASHER
②		VALVE SWEAT ANGLE STOP R19C
③		STRAIGHT VALVE CR14 C.
④		CONNECTED WITH TAPS
⑤		CAP 1/2"
⑥		VALVE FOR MURAL SHOWER

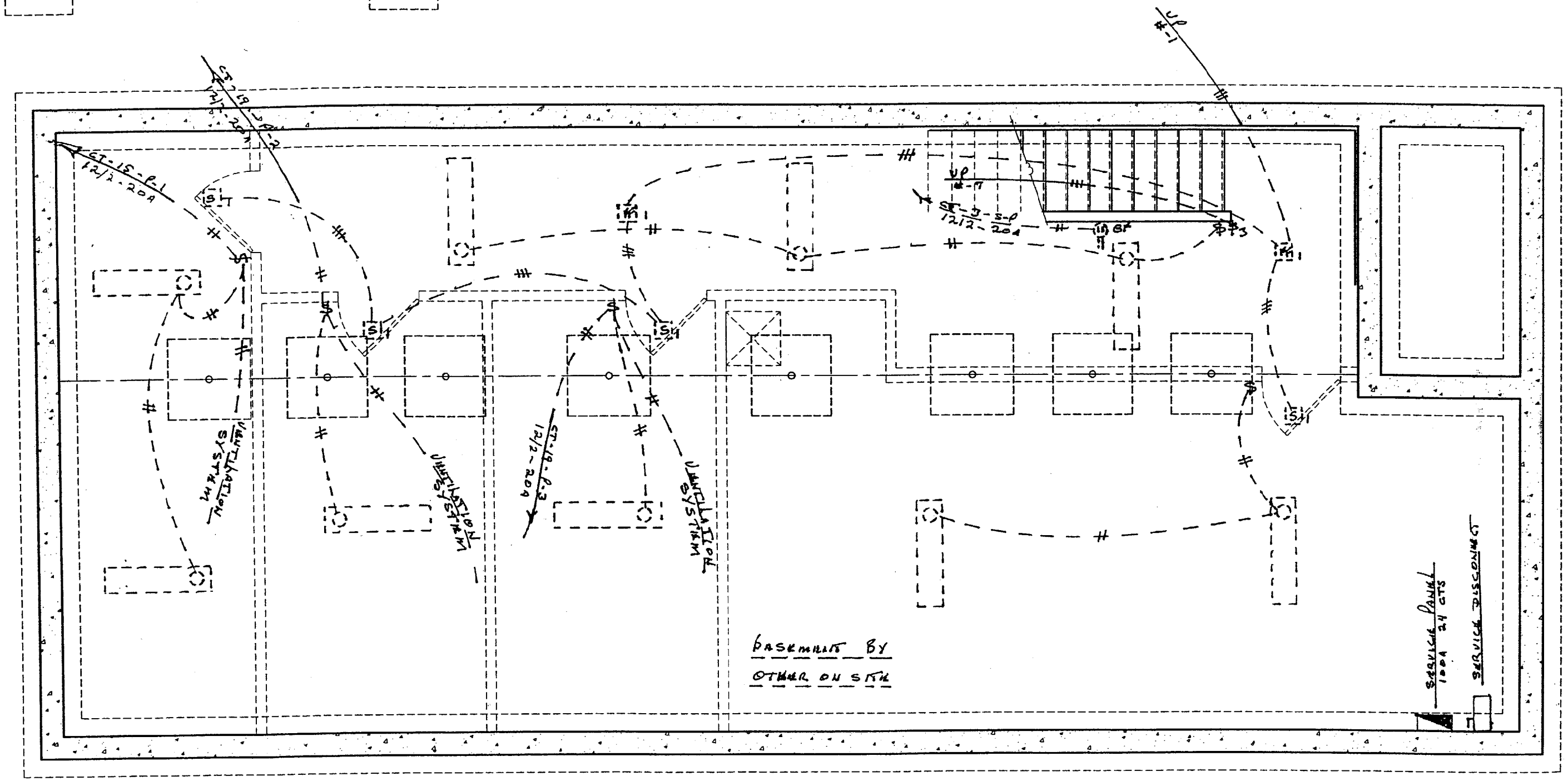
HABITEC 2000 ®

PROP

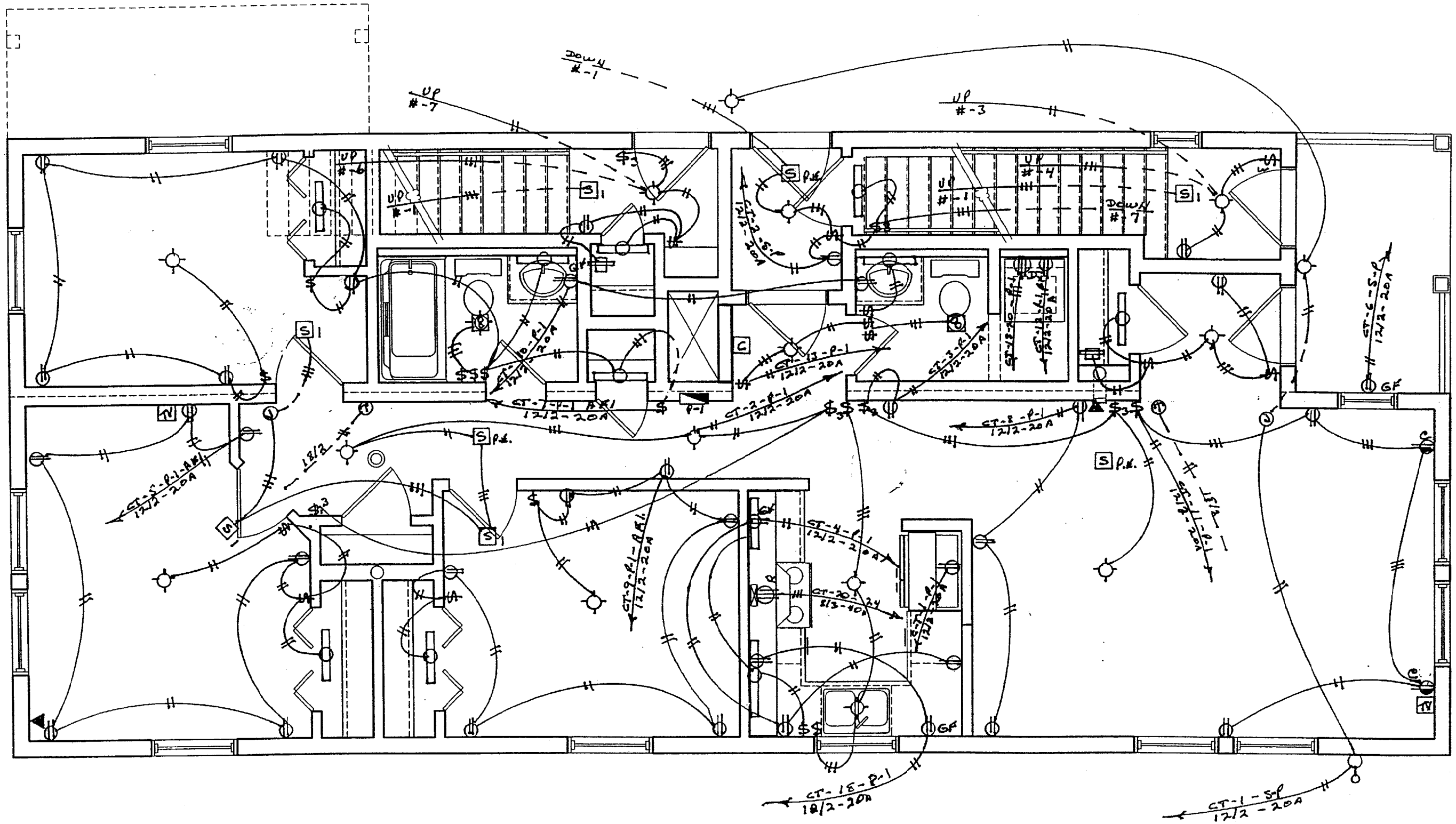
49 HANOVER STREET
PORTLAND

C– 07578

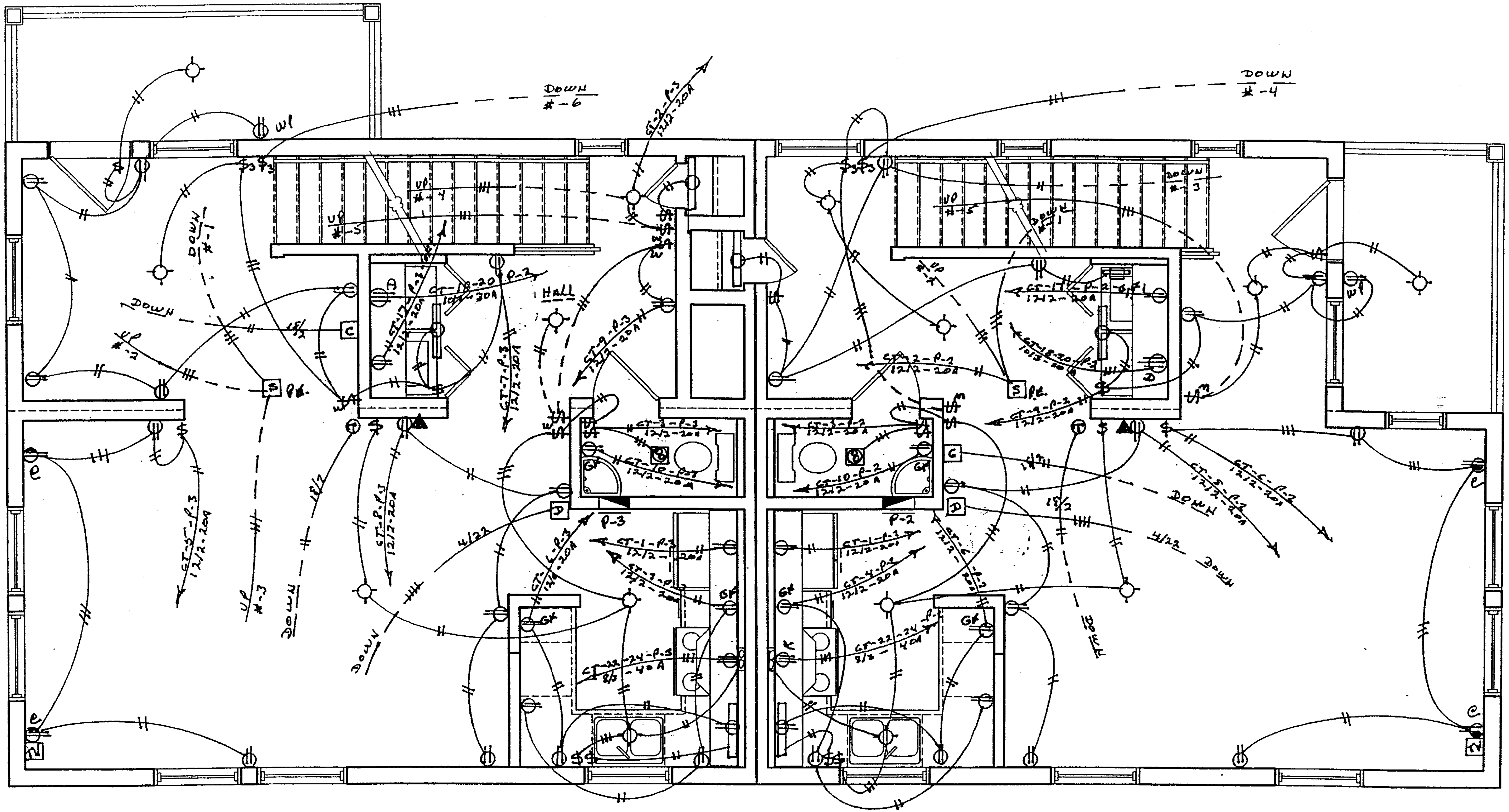
Scale:	Dr. by:	App. by:	Date:	Plan:	Page
NO SCALE	S.B.		08/09/2002	PLUMBING PROFILE	19



HABITEC 2000®			PROP	
			49 HANOVER STREET PORTLAND	C– 07578
Scale: 1/4"=1'-0"	Dr. by: R.M.	App. by:	Date: 05/01/2003	Plan: ELEC. BASEMENT	Page 20A

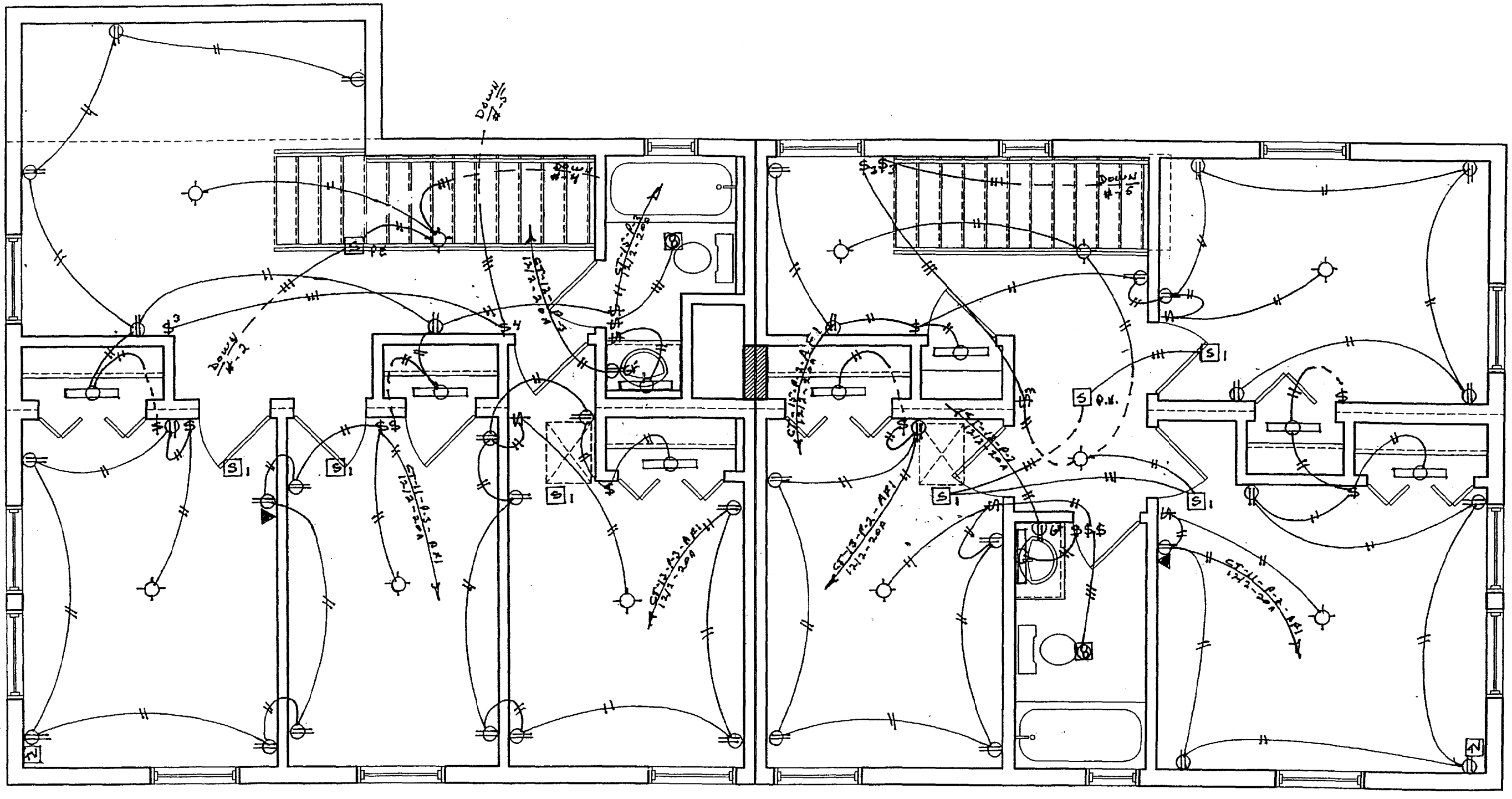


HABITEC 2000®			PROP		
			49 HANOVER STREET PORTLAND		C– 07578
Scale: 1/4"=1'-0"	Dr. by: R.M.	App. by:	Date: 05/01/2002	Plan: ELEC. FIRST FL.	Page 20B



HABITEC 2000®

PROP			
49 HANOVER STREET PORTLAND		C- 07578	
Scale: 1/4"=1'-0"	Dr. by: R.M.	App. by:	Date: 05/01/2002
Plan: ELEC. SECOND FL.	Page 20C		



HABITEC 2000®			PROP	
			49 HANOVER STREET PORTLAND	C– 07578
Scale: 1/4"=1'-0"	Dr. by: R.Tm.	App. by:	Date: 05/01/2002	Plan: ELEC. THIRD FL. / Page 20D

P-1 — SUB PALEL BOX — 100 AMP — 120/240 VOLTS

CIRCUIT SCHEDULE

USE	WIRE SIZE		BREAKER		WIRE SIZE	USE
REFRIGERATOR OUTLET	12/2	1	20A	2	12/2	SMOKE DETECTORS AND LIGHTS
KITCHEN LIGHTS	12/2	3	20A	4	12/2	COUNTER OUTLETS (G.F.)
BEDROOM #1 LIGHTS AND OUTLETS(AFI)	12/2	5	20A	6	12/2	COUNTER OUTLETS (G.F.)
BEDROOM #2 LIGHTS AND OUTLETS(AFI)	12/2	7	20A	8	12/2	DINING ROOM OUTLET (G.F.)
BEDROOM #3 LIGHTS AND OUTLETS(AFI)	12/2	9	20A	10	12/2	BATH #1 OUTLET (G.F.)
LIVING ROOM OUTLETS	12/2	11	20A	12	12/2	WASHER (G.F.I.)
BATH #2 LIGHTS	12/2	13	20A	14		
TENANT STORAGE SYS. LIGHT,VENTILA.	12/2	15	20A	16		
		17	30A	18	10/3	DRYER
		19		20	"	" "
		21	40A	22	8/3	RANGE
		23		24	"	" "

P-2 — SUB PALEL BOX — 100 AMP — 120/240 VOLTS

CIRCUIT SCHEDULE

USE	WIRE SIZE		BREAKER		WIRE SIZE	USE
REFRIGERATOR OUTLET	12/2	1	20A	2	12/2	SMOKE DETECTORS AND LIGHTS
KITCHEN LIGHTS	12/2	3	20A	4	12/2	COUNTER OUTLETS (G.F.)
LIVING ROOM OUTLETS	12/2	5	20A	6	12/2	COUNTER OUTLETS (G.F.)
HALL AND STAIR LIGHTS	12/2	7	20A	8	12/2	DINING ROOM OUTLETS
BALCONY LIGHT AND OUTLETS	12/2	9	20A	10	12/2	BATH #1 OUTLET (G.F.)
MASTER BDR. LIGHTS AND OUTLETS(AFI)	12/2	11	20A	12	12/2	BATH #2 OUTLET (G.F.)
BEDROOM #2 LIGHTS AND OUTLETS(AFI)	12/2	13	20A	14		
BEDROOM #3 LIGHTS AND OUTLETS(AFI)	12/2	15	2A0	16		
WASHER (G.F.I.)	12/2	17	20A	18	10/3	DRYER
TENANT STORAGE SYS. LIGHT,VENTILA.	12/2	19	20A	20	"	" "
		21	30A	22	8/3	RANGE
		23	40A	24	"	" "

SERVICE PANEL BY OTHER ON SITE

P-3 — SUB PALEL BOX — 100 AMP — 120/240 VOLTS

CIRCUIT SCHEDULE

USE	WIRE SIZE		BREAKER		WIRE SIZE	USE
REFRIGERATOR OUTLET	12/2	1	20A	2	12/2	SMOKE DETECTORS AND LIGHTS
KITCHEN LIGHTS	12/2	3	20A	4	12/2	COUNTER OUTLETS (G.F.)
LIVING ROOM LIGHT AND OUTLETS	12/2	5	20A	6	12/2	COUNTER OUTLETS (G.F.)
STUDY ROOM LIGHTS AND OUTLETS	12/2	7	20A	8	12/2	DINING ROOM OUTLETS
HALL AND STAIR LIGHTS AND OUTLETS	12/2	9	20A	10	12/2	BATH #1 OUTLET (G.F.)
MASTER BDR. LIGHTS AND OUTLETS(AFI)	12/2	11	20A	12	12/2	BATH #2 OUTLET (G.F.)
BEDROOM #3 LIGHTS AND OUTLETS(AFI)	12/2	13	20A	14		
BATH #2 LIGHTS	12/2	15	2A0	16		
WASHER (G.F.I.)	12/2	17	20A	18	10/3	DRYER
TENANT STORAGE SYS. LIGHT,VENTILA.	12/2	19	20A	20	"	" "
		21	30A	22	8/3	RANGE
		23	40A	24	"	" "

SERVICE PANEL — SUB PALEL BOX — 100 AMP — 120/240 VOLTS

CIRCUIT SCHEDULE

USE	WIRE SIZE		BREAKER		WIRE SIZE	USE
—		1		2		
		3		4		
		5		6		
		7		8		
		9		10		
		11		12		
		13		14		
		15		16		
		17		18		
		19		20		
		21		22		
		23		24		

SYMBOLS	DESCRIPTION
	INCADESCENT LIGHT
	RECESS LIGHT
	WALL LIGHT
	FLUORESCENT LIGHT
S	EXIT LIGHTS
	EMERGENCY LIGHTS
	CEILING FAN AND LIGHT
	LIGHT/FAN AND INFRARED
	FAN AND LIGHT
	FAN
	OUTLET
	CEILING OUTLET
	FLOOR OUTLET
Φ_C	CONTROL OUTLET
G.F.	GROUND FAULT OUTLET
Φ_D	DRYER RECEPTACLE
Φ_O	OVEN
Φ_R	RANGE RECEPTACLE
Φ_G	GARBAGE DISPOSAL OUTLET
	A.C. OUTLET
$	SINGLE POLE SWITCH
$3	THREE WAY SWITCH
$4	FOUR WAY SWITCH
M	TIMER
M$$	CONTROL FOR LIGHT/FAN/INFRARED
D	DEHUMIDISTAT, VENTILATION SYSTEM
	TELEPHONE
	DATA
TV	CABLE
	LOUD SPEAKER
	LOUD SPEAKER CONTROL
	BASE BOARD HEATERS
	ELECTRIC WALL HEATERS
	ELECTRIC TOE-SPACE HEATERS
	WATER TOE-SPACE HEATERS
T	THERMOSTAT
	BATH TUB
G.F.I.	GROUND FAULT CIRCUIT BREAKER
(A.F.)	ARC FAULT BREAKER
	PANEL BOX
	SERVICE DISCONNECT
J	JONCTION BOX
J_G	GARBAGE DISPOSAL
J_D	DISHWASHER
J_T	TRASH COMPACTOR
S_I	SMOKE DETECTOR IONIZATION
S_{P-E}	SMOKE DETECTOR PHOTO ELECTRIC
F_{HD}	HEAT DETECTOR
F.A.S.	FIRE ALARM SYSTEM
	AUTOMATIC FIRE DETECTOR
S	SMOKE FIRE DETECTOR
S	MANUAL STATION
	BELL FIRE ALARM
	LINE RESISTOR

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PROP

49 HANOVER STREET
PORTLAND

C- 07578

Scale:	Dr. by:	App. by:	Date:	Plan:	Page
NO SCALE	R.M.		08/09/2002	PANEL BOX	21

C-07578	Serial: 0000				Heat looses calculation at 91 %											
DESCRIPTION	Room bedroom #2 0 pi. leng. 13,6 wid. 9,4 h. 8 Exposed wall (ft) 23.0 h. 8.5				Room bath #1 0 pi. leng. 8.1 wid. 5,8 h. 8 Exposed wall (ft) 0,0 h. 8.5				Room bath #2 0 pi. leng. 8,6 wid. 5,7 h. 8 Exposed wall (ft) 0,0 h. 8.5				Room hall 2.25 pi. leng. 8.1 wid. 4.8 h. 8 Exposed wall (ft) 4,8 h. 8.5			
	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH
Wall	195				0				0				41			
Windows	35	0,58	91	1847	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0
Doors	0	0,068	91	0	0	0,068	91	0	0	0,068	91	0	21	0,068	91	130
Side light or patio door	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0
Overground clear wall	160	0,043	91	628	0	0,043	91	0	0	0,043	91	0	20	0,043	91	79
Underground clear wall				0				0				0				0
Floor	0	0,033	91	0	0	0,033	91	0	0	0,033	91	0	0	0,033	91	0
Ceiling	128	0,026	91	302	47	0,026	91	112	50	0,026	91	117	41	0,026	91	98
Cold wall				0				0				0				0
Overground infiltration	1022	0,018	91	1674	378	0,018	91	619	396	0,018	91	649	331	0,018	91	542
Underground infiltration		0,027		0		0,027		0		0,027		0		0,027		0
Total losses (BTUH)				4452				731				766				849

DESCRIPTION	Room master bedroom 29,67 pi. leng. 13,6 wid. 13,4 h. 8 Exposed wall (ft) 27,0 h. 8,5				Room bedroom #3 -8 pi. leng. 13,8 wid. 9,7 h. 8 Exposed wall (ft) 13,8 h. 8,5				Room kitchen 0 pi. leng. 9,1 wid. 13,4 h. 8 Exposed wall (ft) 9,1 h. 8,5				Room dining room and living room 7,41 pi. leng. 18,3 wid. 12,8 h. 8 Exposed wall (ft) 37,7 h. 8,5			
	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH
Wall	229				118				77				321			
Windows	52	0,58	91	2745	17	0,58	91	897	11	0,58	91	581	86	0,58	91	4539
Doors	0	0,068	91	0	0	0,068	91	0	0	0,068	91	0	0	0,068	91	0
Side light or patio door	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0
Overground clear wall	177	0,043	91	693	101	0,043	91	394	66	0,043	91	260	235	0,043	91	918
Underground clear wall				0				0				0				0
Floor	0	0,033	91	0	0	0,033	91	0	0	0,033	91	0	0	0,033	91	0
Ceiling	211	0,026	91	500	127	0,026	91	300	122	0,026	91	289	242	0,026	91	572
Cold wall				0				0				0				0
Overground infiltration	1692	0,018	91	2771	1014	0,018	91	1661	976	0,027	91	2397	1933	0,018	91	3167
Underground infiltration		0,027		0		0,027		0		0,027		0		0,027		0
Total losses (BTUH)				6709				3252				3526				9195

Notes: app #1

C-07578	Serial: 0000				Heat looses calculation at 91 %											
DESCRIPTION	Room stairs second fl. 0 pi. leng. 21,0 wid. 9,4 h. 8 Exposed wall (ft) 30,4 h. 8,5				Room kitchen 0 pi. leng. 8,7 wid. 9,8 h. 8 Exposed wall (ft) 8,7 h. 8,5				Room dining room and living room 0 pi. leng. 18,3 wid. 13,4 h. 8 Exposed wall (ft) 37,7 h. 8,5				Room stairs third fl. -14 pi. leng. 14,4 wid. 9,4 h. 8 Exposed wall (ft) 14,4 h. 8,5			
	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH
Wall	258				74				320				122			
Windows	42	0,58	91	2217	11	0,58	91	581	86	0,58	91	4539	21	0,58	91	1108
Doors	21	0,068	91	130	0	0,068	91	0	0	0,068	91	0	0	0,068	91	0
Side light or patio door	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0
Overground clear wall	195	0,043	91	764	63	0,043	91	245	234	0,043	91	918	101	0,043	91	397
Underground clear wall				0				0				0				0
Floor	197	0,033	91	592	85	0,033	91	255	245	0,033	91	736	0	0,033	91	0
Ceiling	0	0,026	91	0	0	0,026	91	0	0	0,026	91	0	122	0,026	91	288
Cold wall				0				0				0				0
Overground infiltration	1577	0,018	91	2583	681	0,027	91	1673	1962	0,018	91	3214	972	0,018	91	1593
Underground infiltration		0,027		0		0,027		0		0,027		0		0,027		0
Total losses (BTUH)				6285				2755				9406				3386

DESCRIPTION	Room bedroom #3 10,25 pi. leng. 12,6 wid. 9,4 h. 8 Exposed wall (ft) 22,0 h. 8,5				Room bedroom #2 13,86 pi. leng. 9,1 wid. 13,4 h. 8 Exposed wall (ft) 9,1 h. 8,5				Room bath #2 0 pi. leng. 5,4 wid. 9,4 h. 8 Exposed wall (ft) 5,4 h. 8,5				Room master bedroom -10 pi. leng. 12,6 wid. 13,4 h. 8 Exposed wall (ft) 26.0 h. 8.5			
	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH
Wall	187				77				46				221			
Windows	28	0,58	91	1478	17	0,58	91	897	4	0,58	91	211	52	0,58	91	2745
Doors	0	0,068	91	0	0	0,068	91	0	0	0,068	91	0	0	0,068	91	0
Side light or patio door	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0
Overground clear wall	159	0,043	91	621	60	0,043	91	235	42	0,043	91	162	169	0,043	91	660
Underground clear wall				0				0				0				0
Floor	57	0,033	91	171	0	0,033	91	0	0	0,033	91	0	0	0,033	91	0
Ceiling	128	0,026	91	304	135	0,026	91	320	50	0,026	91	118	158	0,026	91	374
Cold wall				0				0				0				0
Overground infiltration	1027	0,018	91	1682	1081	0,018	91	1771	401	0,018	91	656	1265	0,018	91	2073
Underground infiltration		0,027		0		0,027		0		0,027		0		0,027		0
Total losses (BTUH)				4256				3222				1148				5852

Notes: app #2

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App. by:

Date: 08/08/2002

Plan: HEAT LOS CALCUL

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PROP

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C-- 07578

C-07578	Serial: 0000	Heat looses calculation at 91 %															
DESCRIPTION	Room stairs second fl. 7,726 pi. leng. 24,6 wid. 9,4 h. 8 Exposed wall (ft) 34,0 h. 8,5				Room living room and dining room 0 pi. leng. 18,3 wid. 13,4 h. 8 Exposed wall (ft) 31,7 h. 8,5				Room kitchen2 0 pi. leng. 8,7 wid. 9,8 h. 8 Exposed wall (ft) 8,7 h. 8,5				Room stairs third fl. -15 pi. leng. 21,6 wid. 11,9 h. 8 Exposed wall (ft) 38,4 h. 8,5			
	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH
Wall	289				269				74				327			
Windows	39	0,58	91	2058	69	0,58	91	3642	11	0,58	91	581	17	0,58	91	897
Doors	21	0,068	91	130	0	0,068	91	0	0	0,068	91	0	0	0,068	91	0
Side light or patio door	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0
Overground clear wall	229	0,043	91	897	200	0,043	91	784	63	0,043	91	245	310	0,043	91	1212
Underground clear wall				0				0				0				0
Floor	239	0,033	91	718	245	0,033	91	736	85	0,033	91	255	0	0,033	91	0
Celling	0	0,026	91	0	0	0,026	91	0	0	0,026	91	0	241	0,026	91	570
Cold wall				0				0				0				0
Overground infiltration	1913	0,018	91	3133	1962	0,018	91	3214	681	0,027	91	1673	1927	0,018	91	3156
Underground infiltration		0,027		0		0,027		0		0,027		0		0,027		0
Total losses (BTUH)				6936				8376				2755				5835

DESCRIPTION	Room bath #2 -5,75 pi. leng. 5,1 wid. 9,4 h. 8 Exposed wall (ft) 5,1 h. 8,5				Room master bedroom 14,01 pi. leng. 9,7 wid. 13,4 h. 8 Exposed wall (ft) 25,6 h. 8,5				Room bedroom #2 12,1 pi. leng. 8,3 wid. 13,4 h. 8 Exposed wall (ft) 8,3 h. 8,5				Room bedroom #3 0 pi. leng. 9,0 wid. 13,4 h. 8 Exposed wall (ft) 9,0 h. 8,5			
	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH
Wall	43				218				70				77			
Windows	4	0,58	91	211	52	0,58	91	2745	17	0,58	91	897	17	0,58	91	897
Doors	0	0,068	91	0	0	0,068	91	0	0	0,068	91	0	0	0,068	91	0
Side light or patio door	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0
Overground clear wall	39	0,043	91	154	166	0,043	91	649	53	0,043	91	209	60	0,043	91	233
Underground clear wall				0				0				0				0
Floor	0	0,033	91	0	0	0,033	91	0	0	0,033	91	0	0	0,033	91	0
Celling	42	0,026	91	100	144	0,026	91	340	123	0,026	91	291	121	0,026	91	285
Cold wall				0				0				0				0
Overground infiltration	338	0,018	91	553	1150	0,018	91	1884	985	0,018	91	1613	965	0,018	91	1581
Underground infiltration		0,027		0		0,027		0		0,027		0		0,027		0
Total losses (BTUH)				1018				5618				3011				2996

Notes: app #3

C-07578	Serial: 0000	Heat looses calculation at 91 %															
DESCRIPTION	Room acces to app #3 18,14 pi. leng. 13,8 wid. 3,6 h. 8 Exposed wall (ft) 13,8 h. 8,5				Room acces to basement 9,953 pi. leng. 10,7 wid. 3,7 h. 8 Exposed wall (ft) 10,7 h. 8,5				Room acces to app #2 5,15 pi. leng. 10,7 wid. 3,7 h. 8 Exposed wall (ft) 15,3 h. 8,5				Room 0 0 pi. leng. 0,0 wid. 0,0 h. 8 Exposed wall (ft) 0,0 h. 8,5			
	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH
Wall	117				91				130				0			
Windows	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0
Doors	21	0,068	91	130	21	0,068	91	130	21	0,068	91	130	0	0,068	91	0
Side light or patio door	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0
Overground clear wall	96	0,043	91	377	70	0,043	91	274	109	0,043	91	425	0	0,043	91	0
Underground clear wall				0				0				0				0
Floor	0	0,033	91	0	0	0,033	91	0	0	0,033	91	0	0	0,033	91	0
Celling	68	0,026	91	160	49	0,026	91	116	44	0,026	91	105	0	0,026	91	0
Cold wall				0				0				0				0
Overground infiltration	541	0,018	91	886	392	0,018	91	642	354	0,018	91	579	0	0,018	91	0
Underground infiltration		0,027		0		0,027		0		0,027		0		0,027		0
Total losses (BTUH)				1553				1162				1239				0

DESCRIPTION	Room 0 0 pi. leng. 0,0 wid. 0,0 h. 8 Exposed wall (ft) 0,0 h. 8,5				Room 0 0 pi. leng. 0,0 wid. 0,0 h. 8 Exposed wall (ft) 0,0 h. 8,5				Room 0 0 pi. leng. 0,0 wid. 0,0 h. 8 Exposed wall (ft) 0,0 h. 8,5				Room 0 0 pi. leng. 0,0 wid. 0,0 h. 8 Exposed wall (ft) 0,0 h. 8,5			
	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH	FT²/cu.	U	DT	Losses BTUH
Wall	0				0				0				0			
Windows	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0
Doors	0	0,068	91	0	0	0,068	91	0	0	0,068	91	0	0	0,068	91	0
Side light or patio door	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0	0	0,58	91	0
Overground clear wall	0	0,043	91	0	0	0,043	91	0	0	0,043	91	0	0	0,043	91	0
Underground clear wall				0				0				0				0
Floor	0	0,033	91	0	0	0,033	91	0	0	0,033	91	0	0	0,033	91	0
Celling	0	0,026	91	0	0	0,026	91	0	0	0,026	91	0	0	0,026	91	0
Cold wall				0				0				0				0
Overground infiltration	0	0,018	91	0	0	0,018	91	0	0	0,018	91	0	0	0,018	91	0
Underground infiltration		0,027		0		0,027		0		0,027		0		0,027		0
Total losses (BTUH)				0				0				0				0

Notes:

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Plan: HEAT LOS CALCUL

49 HANOVER STREET PORTLAND

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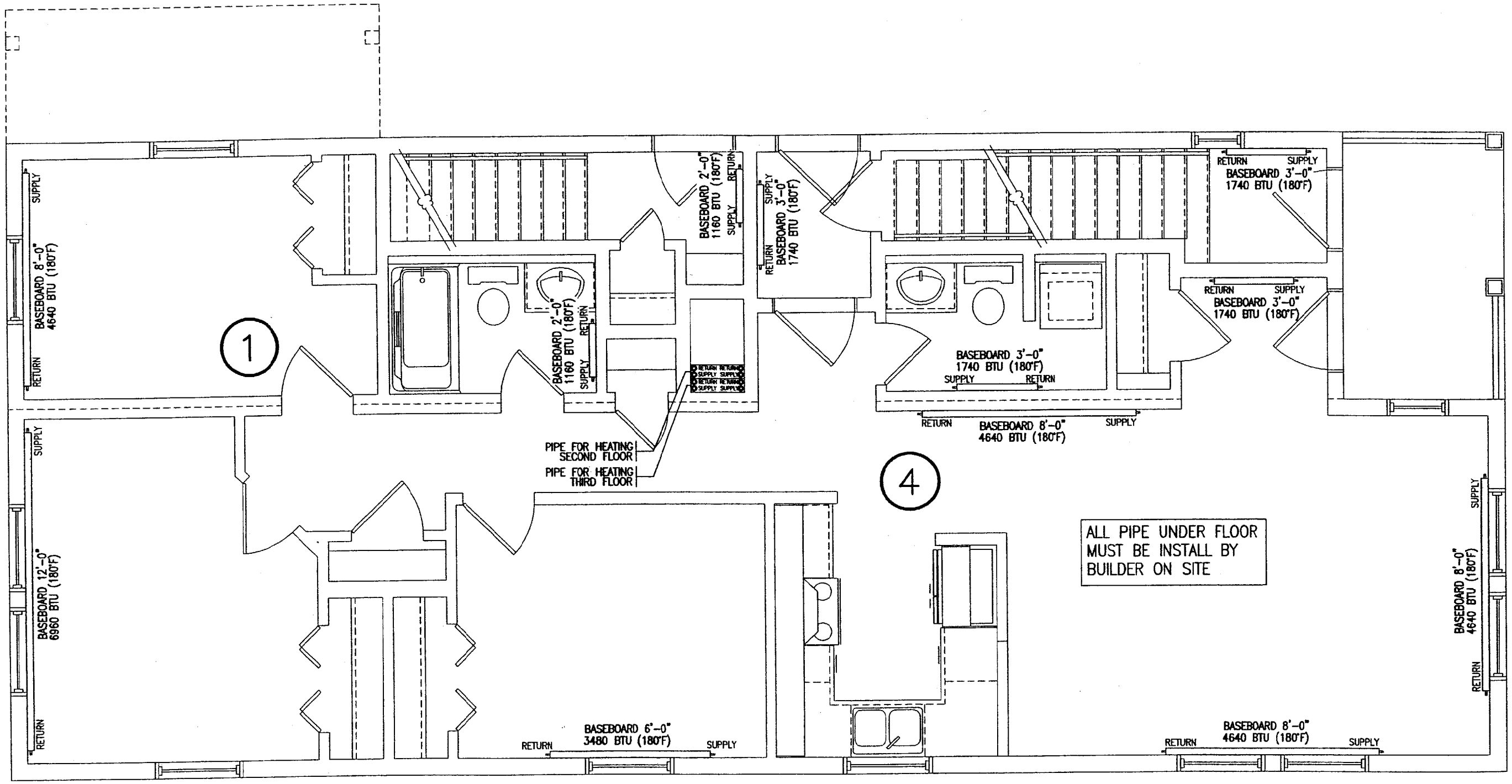

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49 HANOVER STREET
PORTLAND

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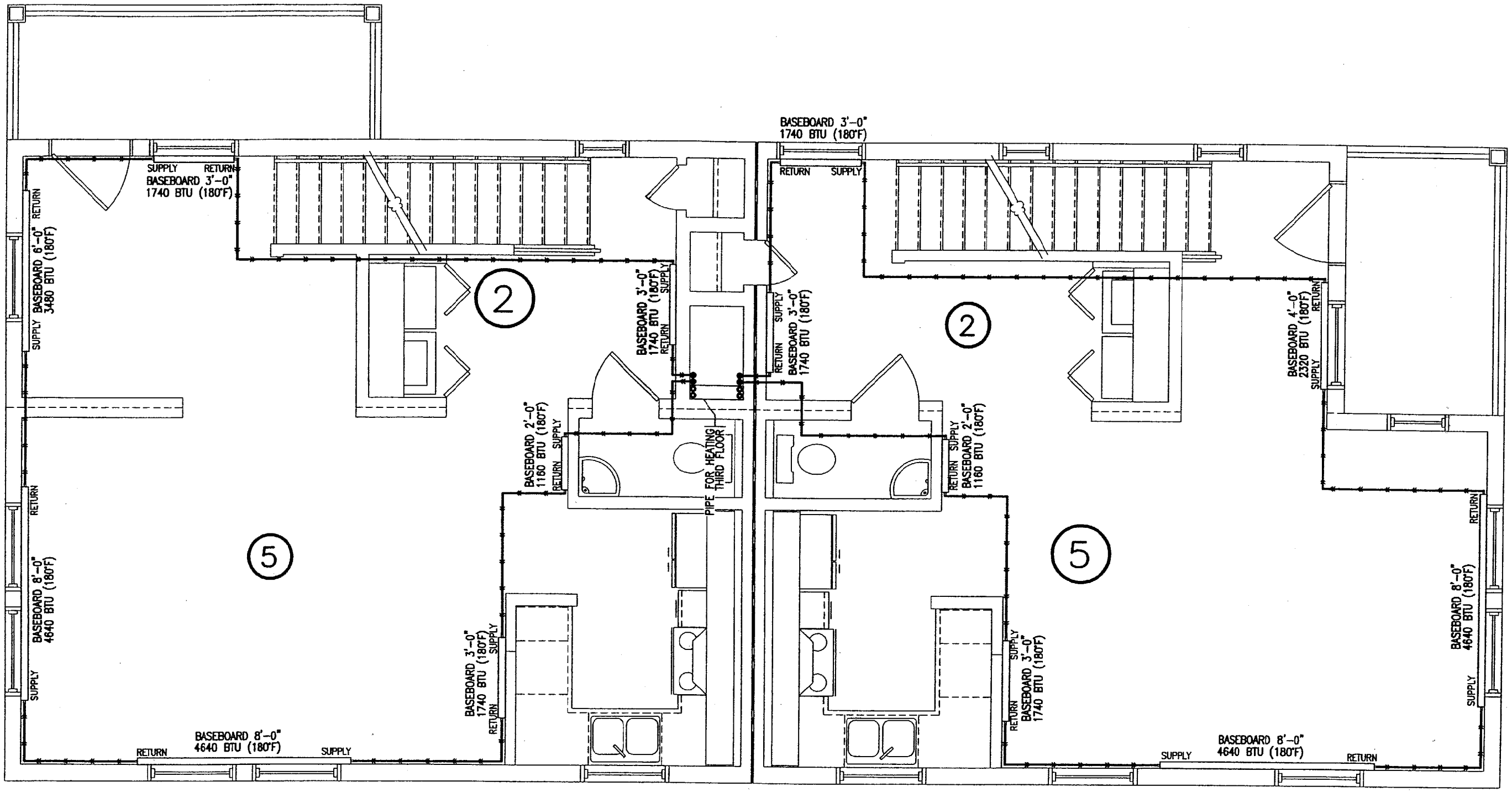
Scale:	Dr. by:	App. by:	Date:	Plan:	Page
1/4"=1'-0"	S.B.		08/09/2002	HEATING FIRST FL.	23A



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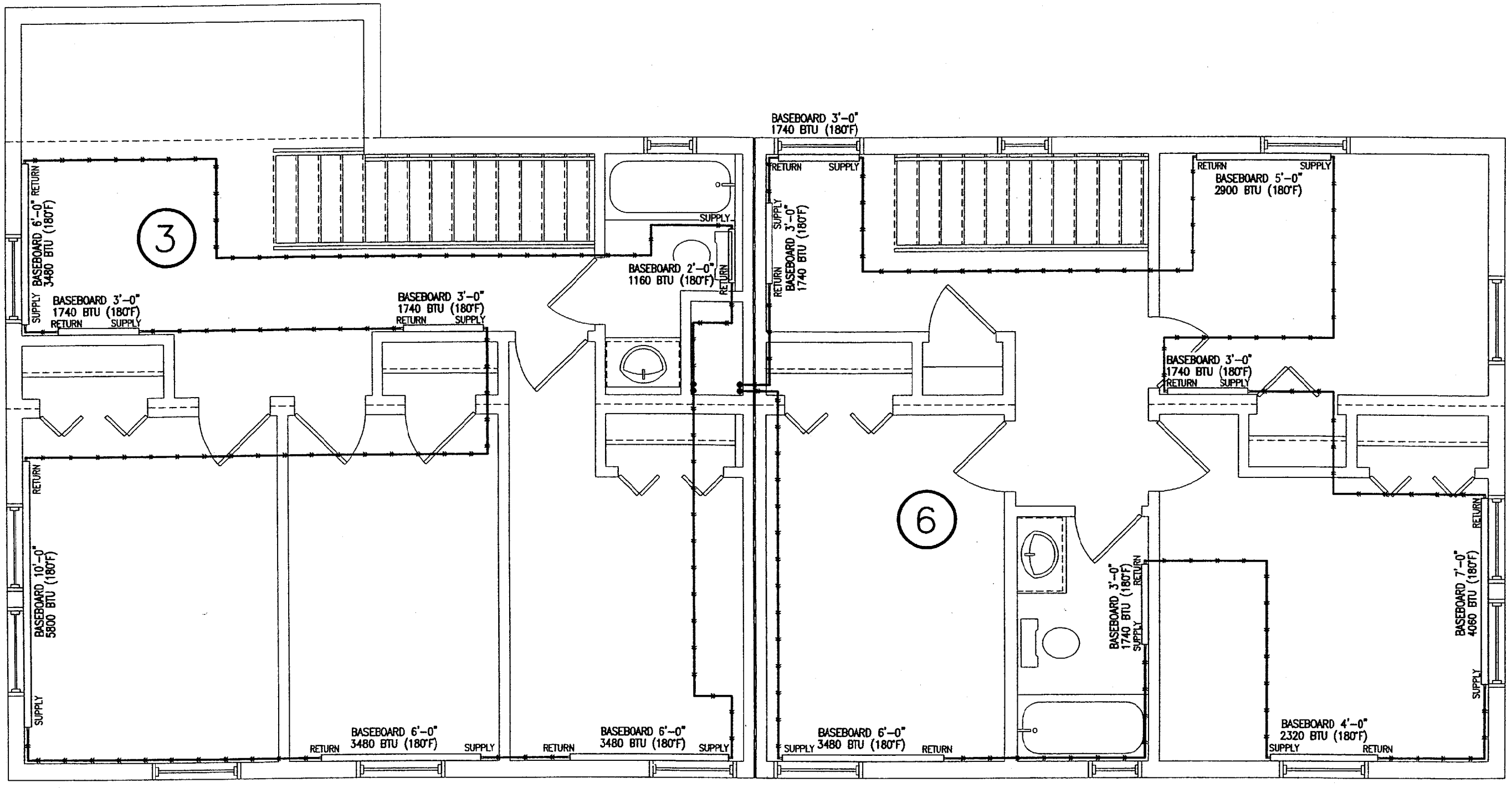
Scale:	Dr. by:	App. by:	Date:	Plan:	Page
1/4"=1'-0"	S.B.		08/09/2002	HEATING SECOND FL.	23B



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49 HANOVER STREET
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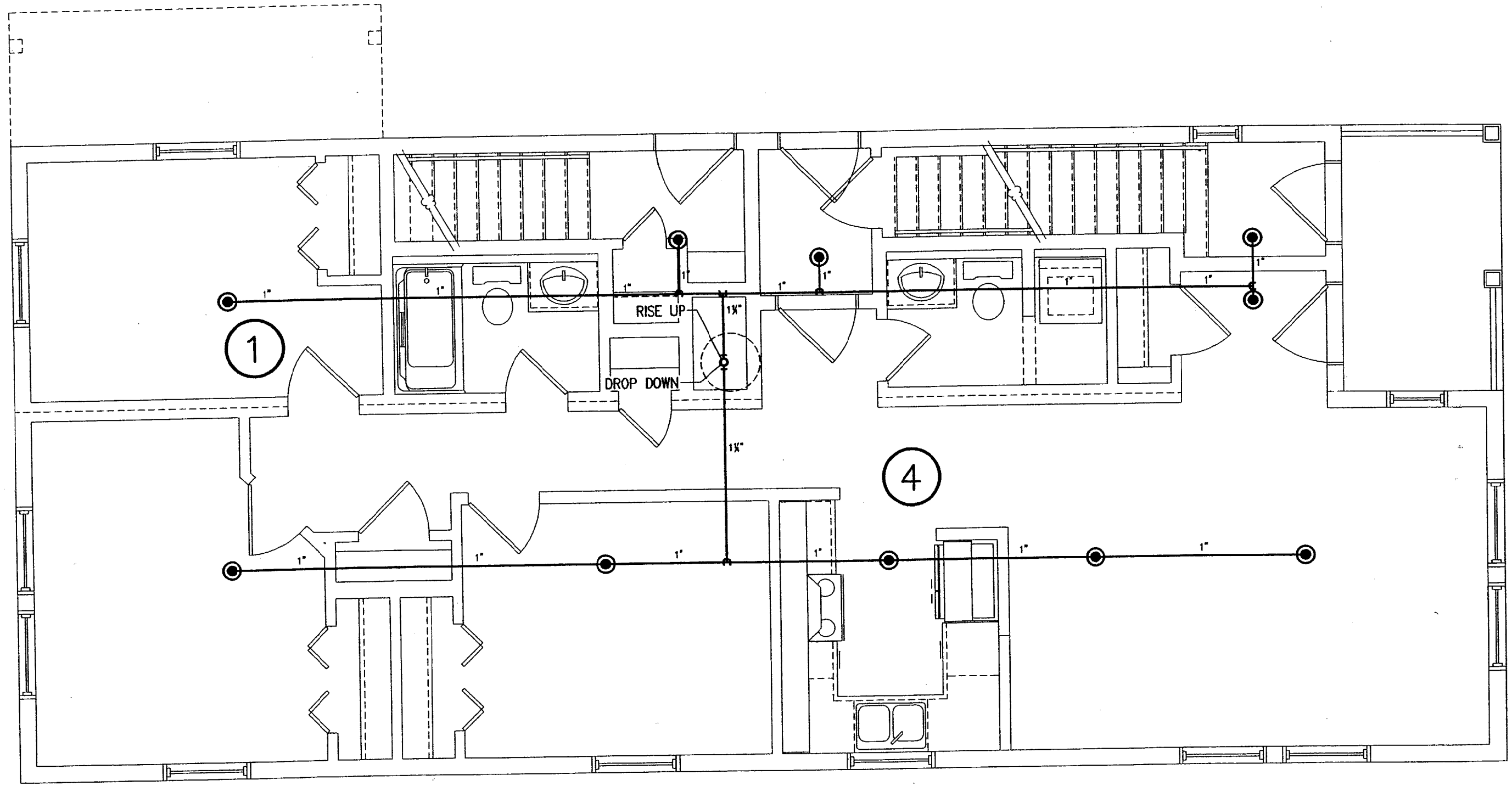
Scale:	Dr. by:	App. by:	Date:	Plan:	Page
1/4"=1'-0"	S.B.		08/09/2002	HEATING THIRD FL.	23C



SPRINKLER HEAD TO BE INSTALLED BY OTHERS ON SITE

FIELD CONNECTION

"T" CONNECTIONS TO BE INSTALLED IN FACTORY

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49 HANOVER STREET
PORTLAND

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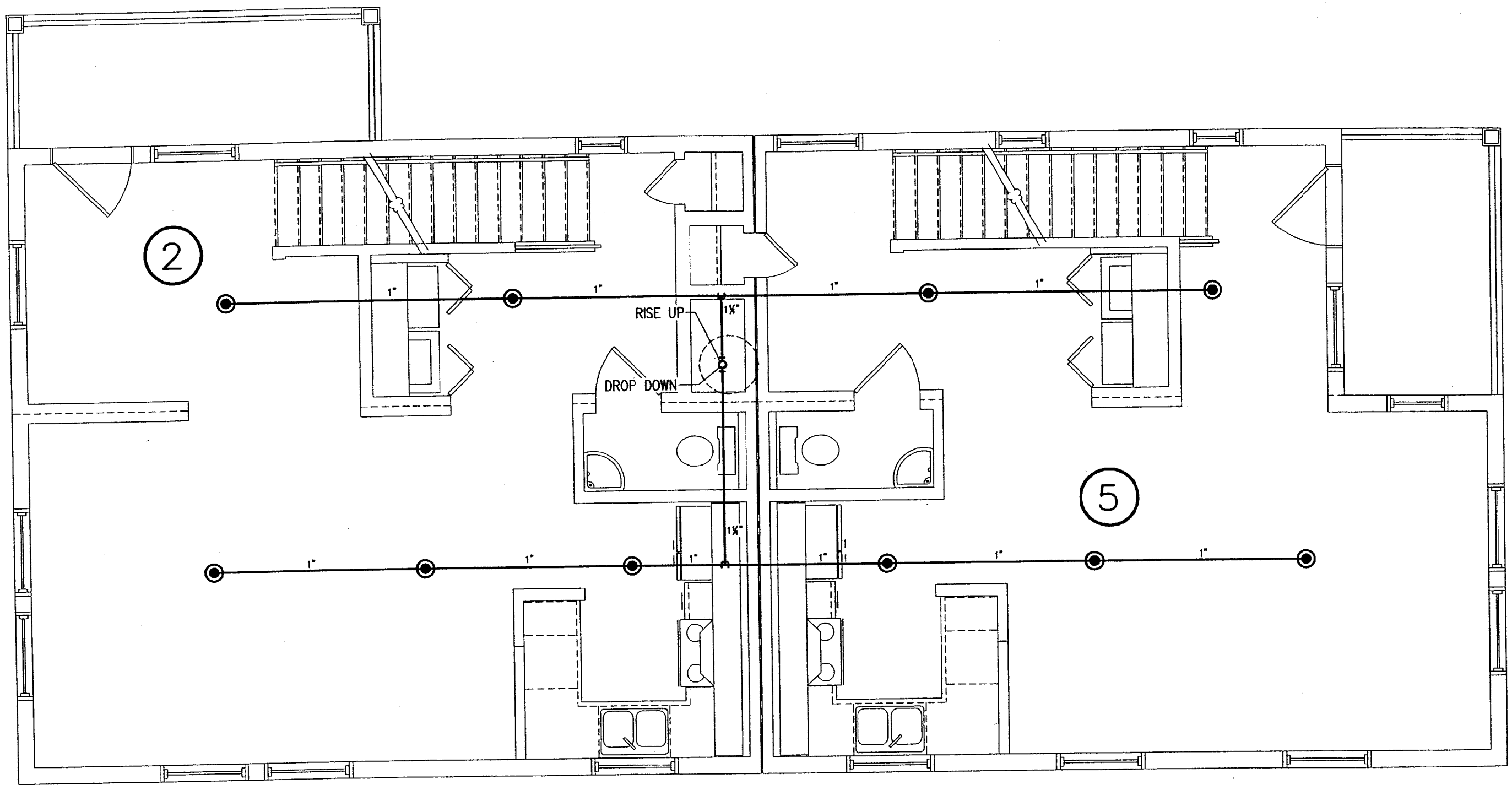
Scale:	Dr. by:	App. by:	Date:	Plan:	Page
1/4"=1'–0"	S.B.		08/09/2002	SPRINKLER FIRST FL.	24A



SPRINKLER HEAD TO BE INSTALLED BY OTHERS ON SITE

FIELD CONNECTION

"T" CONNECTIONS TO BE INSTALLED IN FACTORY

HABITEC 2000®

PROP

49 HANOVER STREET
PORTLAND

C– 07578

Scale: 1/4"=1'–0"

Dr. by: S.B.

App. by:

Date: 08/09/2002

Plan: SPRINKLER SECOND FL.

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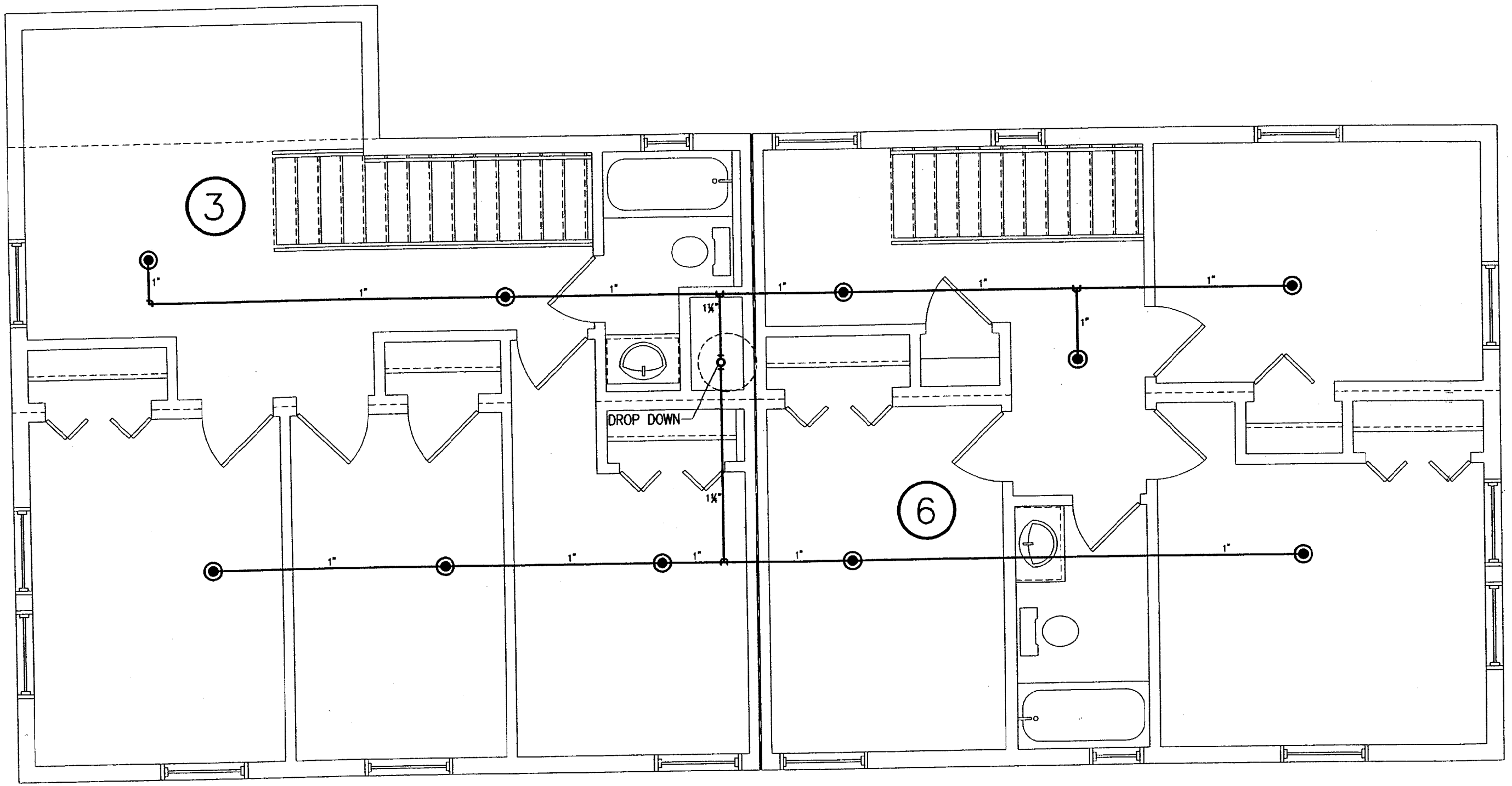

SPRINKLER HEAD TO BE INSTALLED BY OTHERS ON SITE

FIELD CONNECTION

"T" CONNECTIONS TO BE INSTALLED IN FACTORY

HABITEC 2000®

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49 HANOVER STREET
PORTLAND

C– 07578

Scale:	Dr. by:	App. by:	Date:	Plan	Page
1/4"=1'-0"	S.B.		08/09/2002	SPRINKLER THIRD FL.	24C

NOTES GENERALES

Supply only: All windows and doors as per specs and quantities of these drawings.

All materials related to the installation like interior casing, flashing, insulation framework, caulking and finishing etc... are not part of this present contract.

The windows are in accordance with CAN/CSA-A-440 tests.

Frames and sash are white extruded polyvinyl chloride in accordance with ONGC-41-GP-19 and 41-GP-20 with air chambers.

Steel reinforcements in frame and sash depending on height.

Wheatherstrip are "Santoprene" rubber and sweeps.

Glazing is double sealed with 3mm float glass as per can/CGSB-2-12.8-M90 norme and will be installed at factory.

Removable screen with fiberglass mesh in accordance with ONGC-79-GP-1M76 mounted in a sectional aluminum frame.

Installation anchors are galvanized steel.

Glass stop are PVC and removable.

Fiberglass insulation put in at the joints of the windows will be supplied and installed by contractor not by Bonneville windows and doors.

TECHNICAL NOTE (WINDOWS)

Double hung window frame 83mm (3 1/4")

Double sealed unit. Overall thickness 19mm (3/4), air space 13mm (1/2") using two 3mm (1/8") float glass.Low-E argon.
Awning window frame 83mm (3 1/4")

Double sealed unit. Overall thickness 22mm (7/8), air space 16 mm (5/8") using two 3mm (1/8") float glass.Low-E argon.

Dimension shown are outside frame size.

Acceptation No. CCMC:

Hung gold: 12915-L A3 B2 C3 F2
Awning gold: 12656-L A3 B7 C3 F2

TECHNICAL NOTE (DOORS)

Steel door frame 182mm (7 1/4") by 31mm (1 1/4") in pine. PVC cladding exterior.

Double sealed unit. Overall thickness 25mm (1"),air space Isomax 19mm(3/4)using two 3mm(1/8") float glass.

Dimension shown are outside frame size.

Acceptation No. CCMC:

Steel Door: ONGC-82-GP-5M

	Material			FRAME			CLADDING	
	wood	alum.	P.V.C.	wood	alum.	P.V.C.	alum.	P.V.C.
Patio door								
Door FR-50								
Insulated steel door	●			●				●
Casement								
Awning			●			●		
Slider								
Hung			●			●		
Fixed thermo								

Colors	
White L-1063	
Brown L-6915	
Ivory L-6622	
Gray L-1355	
Green L-2310	
Blue L-3200	

Colors	
Black L-1715	
Sandle wood L-6675	
White K-1285	
Brown K-7390	
White 141	●
Natural wood	

GROUPE BOCENOR INC.

274 RUE DUCHESNAY
SAINTE-MARIE DE BEAUCE
QUÉBEC,QC
G6E 3C2
(418)387-1000

PROJECT

ARCHITECT

CONTRACTOR

Les habitations techniques Ltée.

No:	Date	Revision	By

DRAWN: Marie Josée Vallières

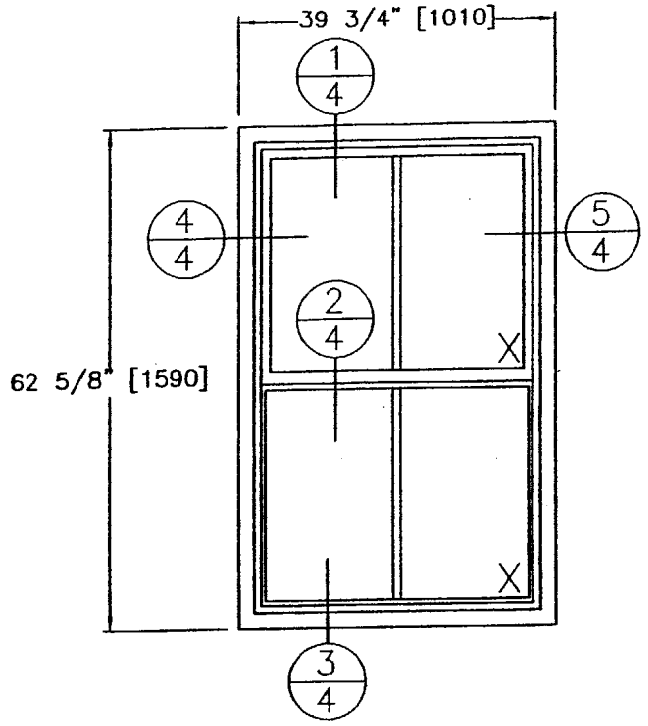
SALE REP: Richard Rodrigue

DATE: 01/05/2002

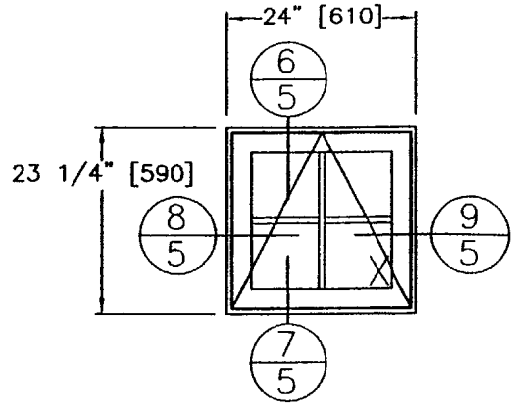
SCALE: NONE

FILE NO: 028-2002MJV

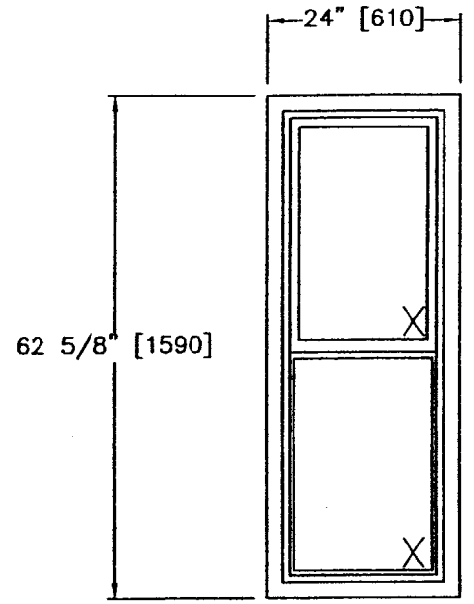
25 A



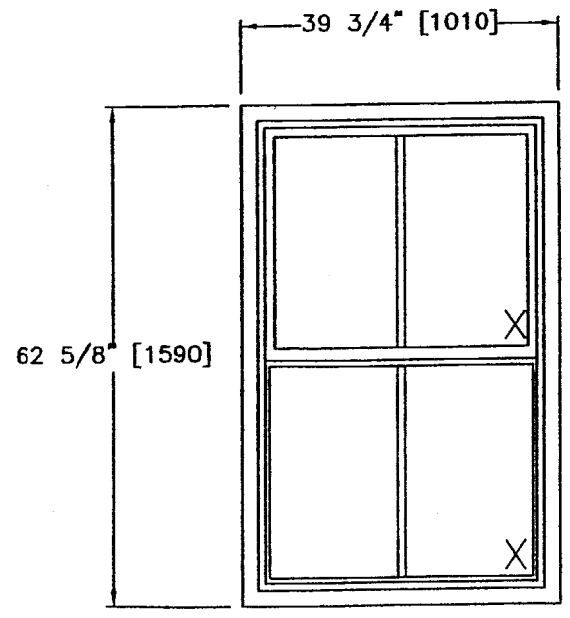
Item 1 & 4 QTE: 27



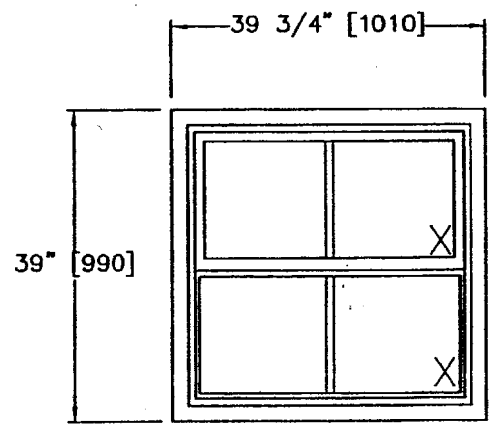
Item 2 & 7 QTE: 6



Item 3 & 6 QTE: 2



Item 5 QTE: 4



Item 8 QTE: 2

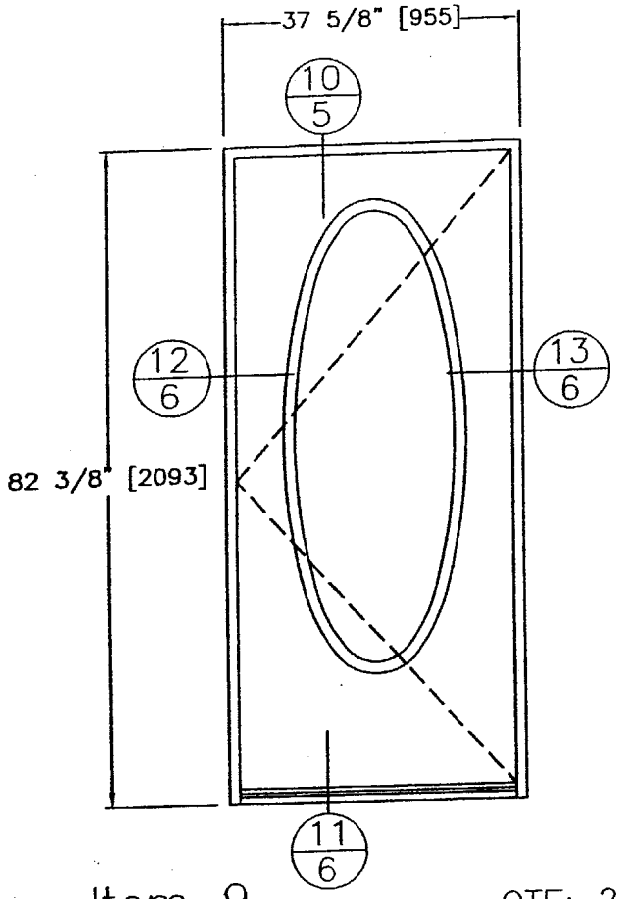
X: VOLET OUVRANT
O: VOLET FIXE

NOTE:
LES ÉLÉVATIONS SONT VUES DE L'EXTÉRIEUR

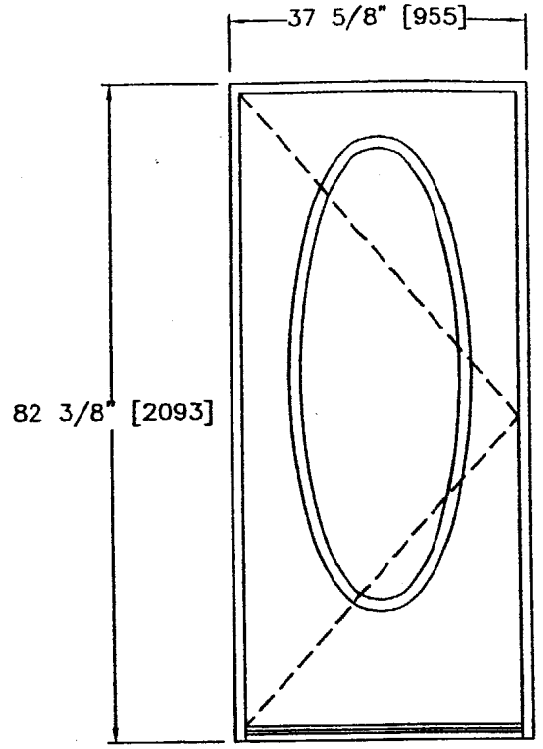
GROUPE BOCENOR

TITRE
ÉLÉVATIONS DE FENÊTRES

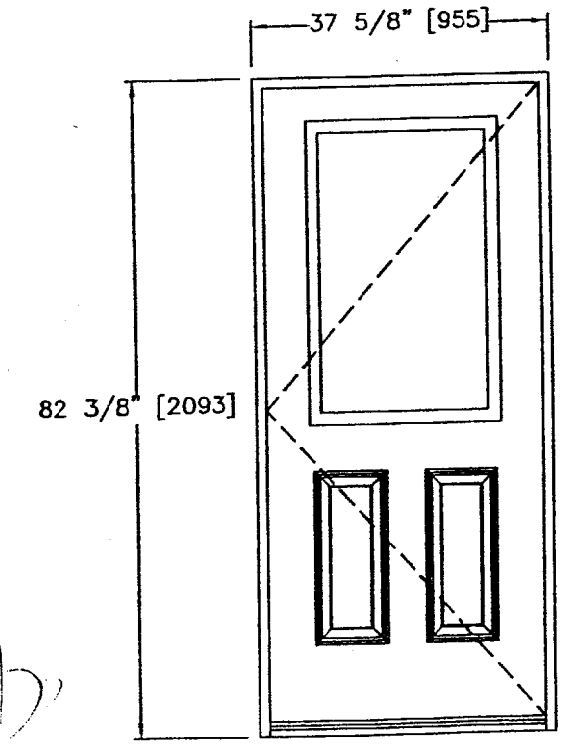
DATE	ECHELLE
01/05/2002	NONE
No DOSSIER	No FEUILLE
028-2002MJV	23B



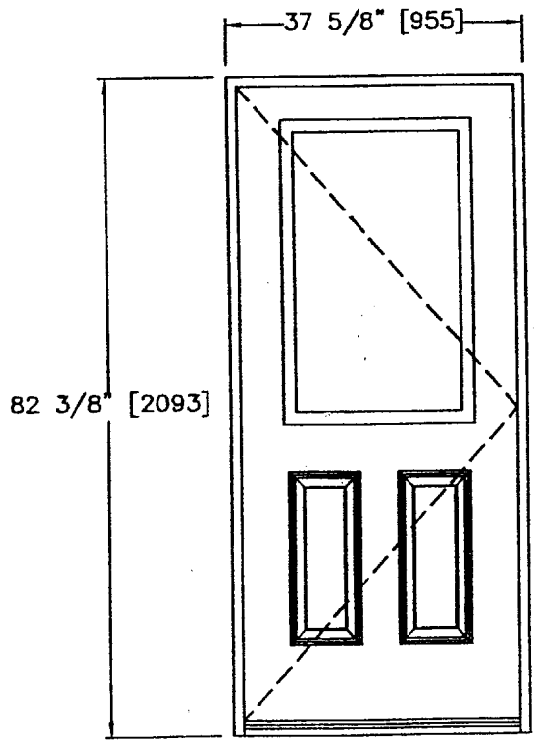
Item 9 QTE: 2



Item 10 QTE: 2



Item 11 QTE: 1



Item 12 QTE: 1

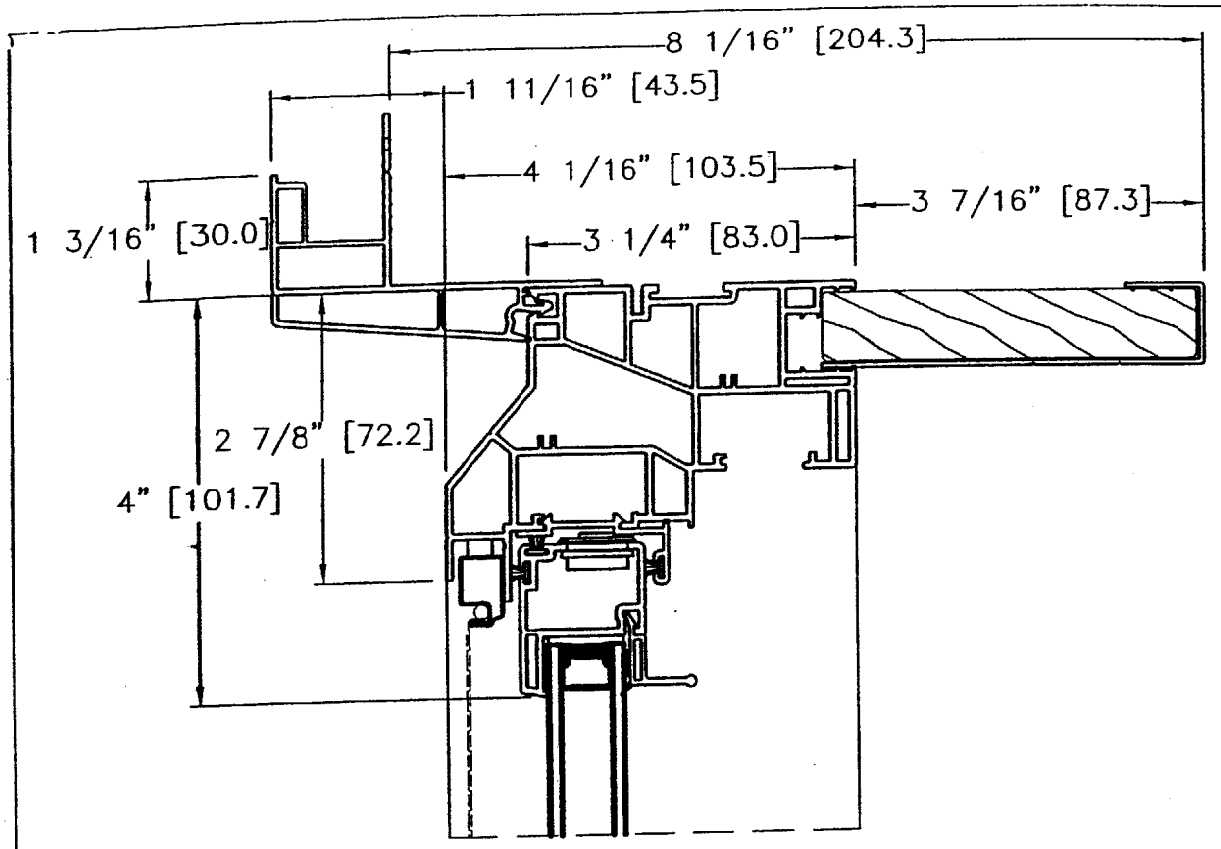
X: VOLET OUVRANT
O: VOLET FIXE

NOTE:
LES ÉLÉVATIONS SONT VUES DE L'EXTÉRIEUR

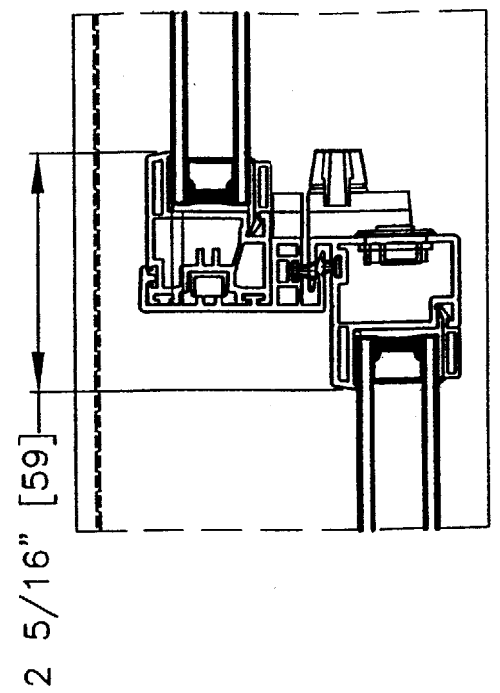
GROUPE BOCENOR inc.

TITRE
ÉLÉVATIONS DE FENÊTRES

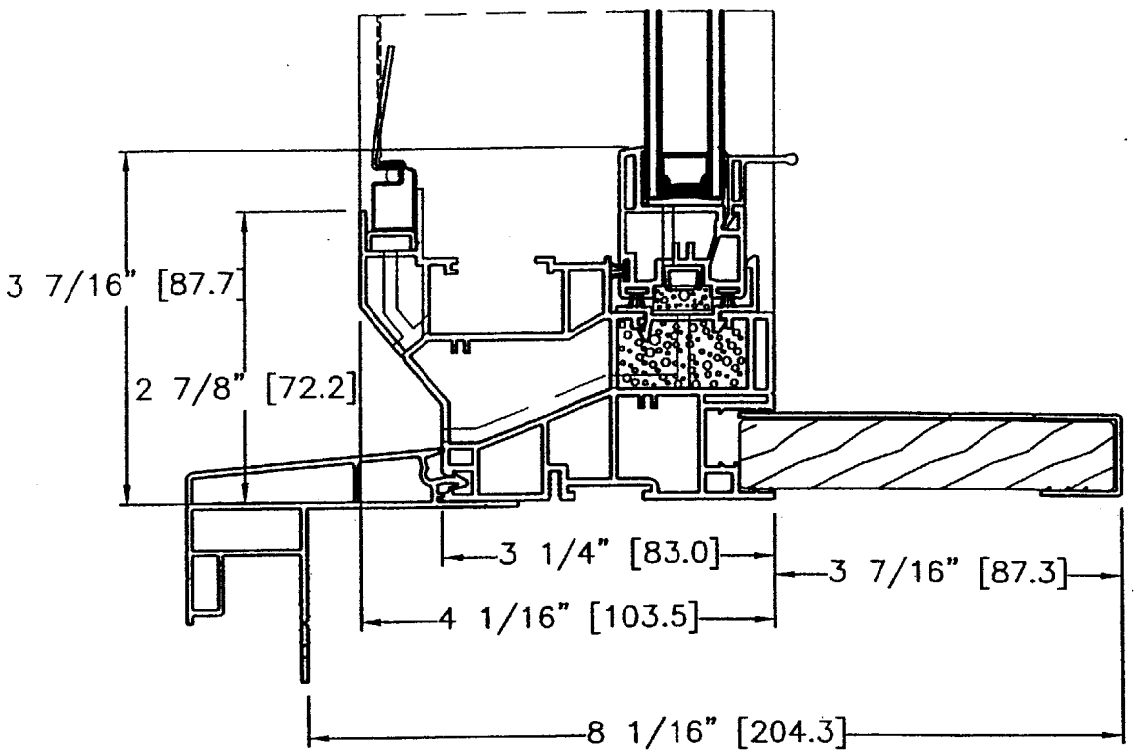
DATE	ÉCHELLE
01/05/2002	NONE
No DOSSIER	No FEUILLE
028-2002MJV	25C



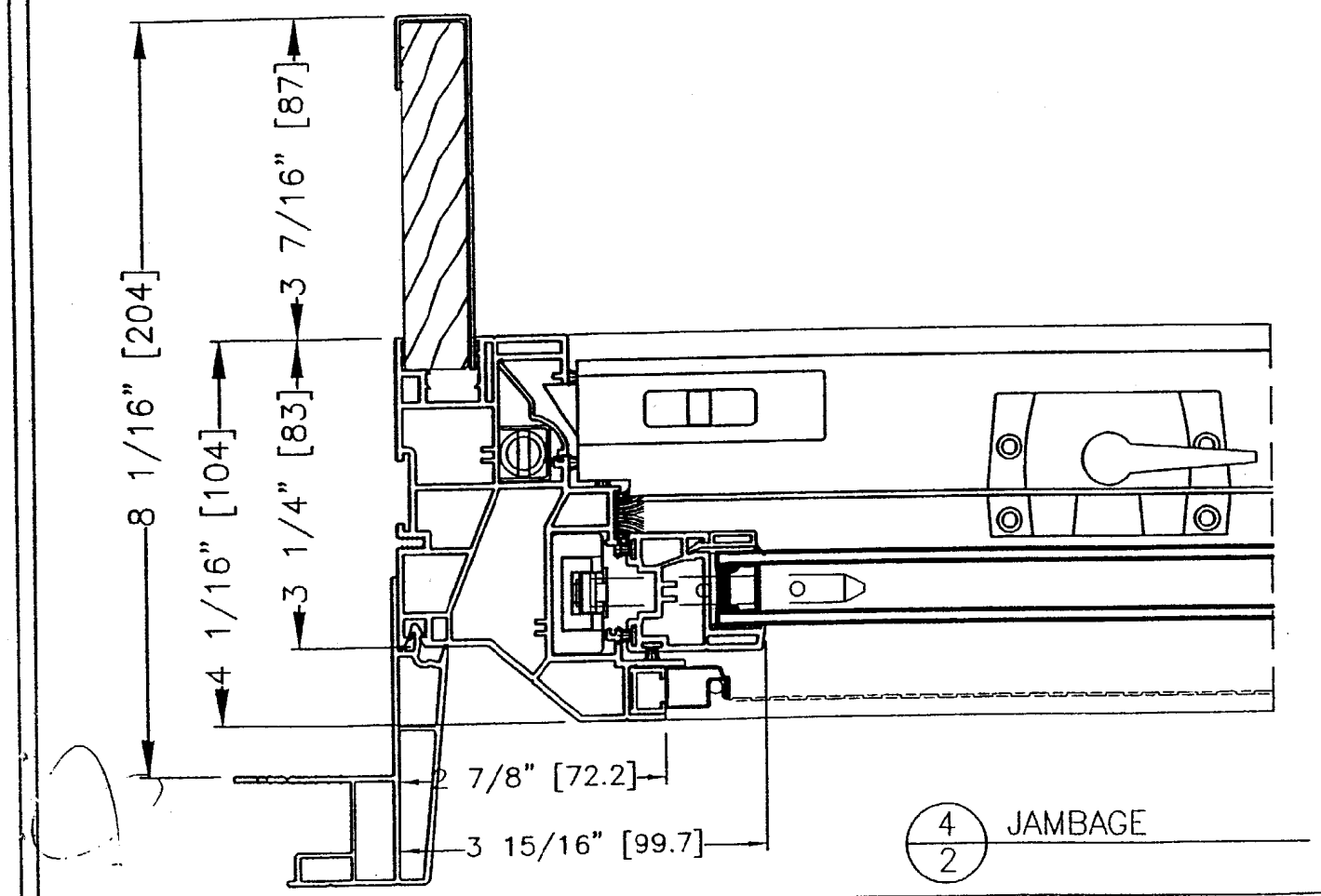
1/2 TÊTE



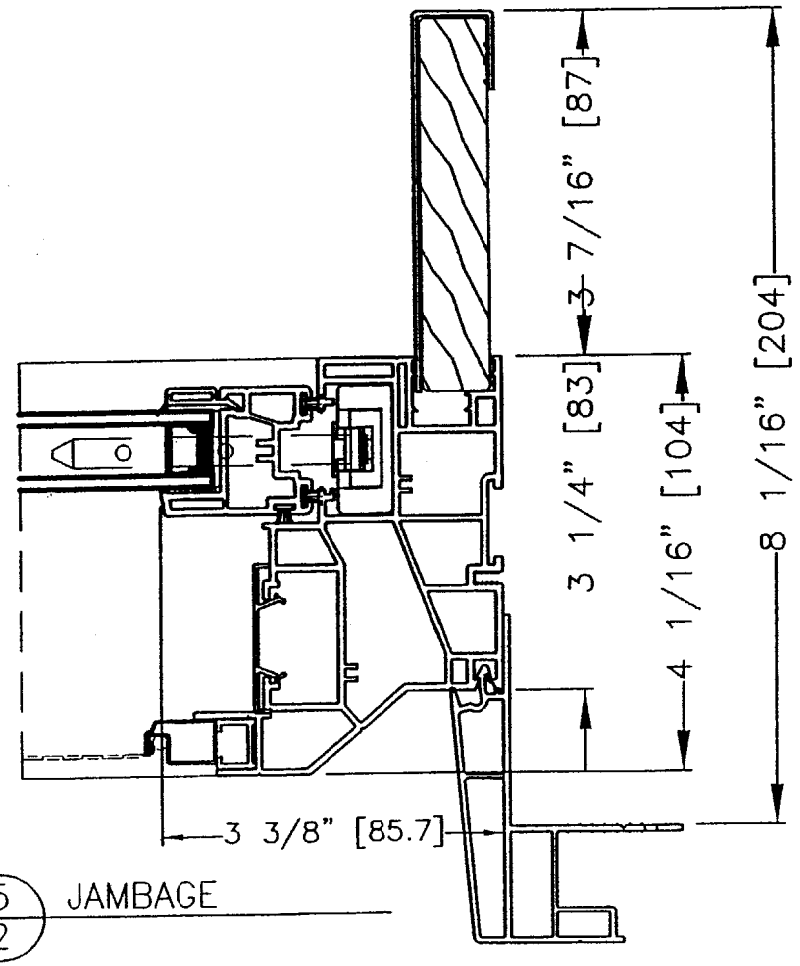
2/2 MENEAU



3/2 SEUIL



4/2 JAMBAGE

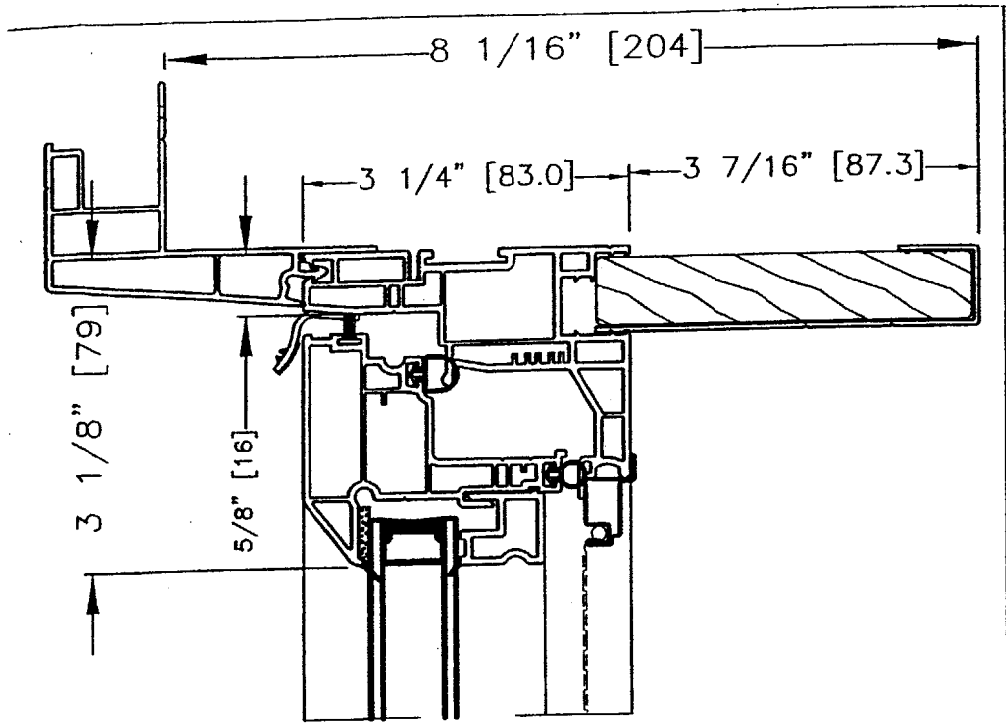


5/2 JAMBAGE

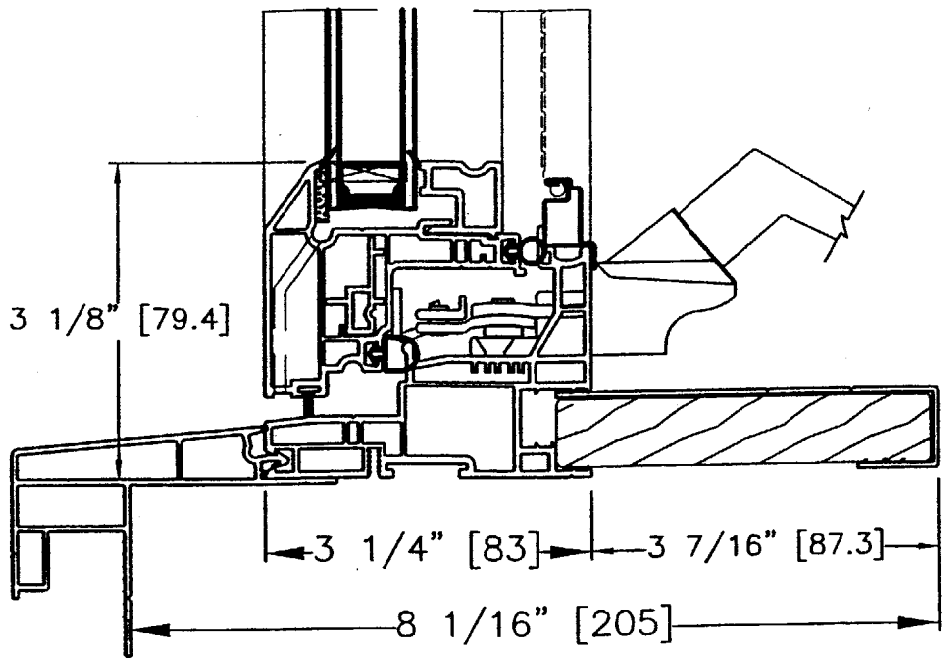
GROUPE BOCENOR INC.

TITRE
COUPES DE FENETRES

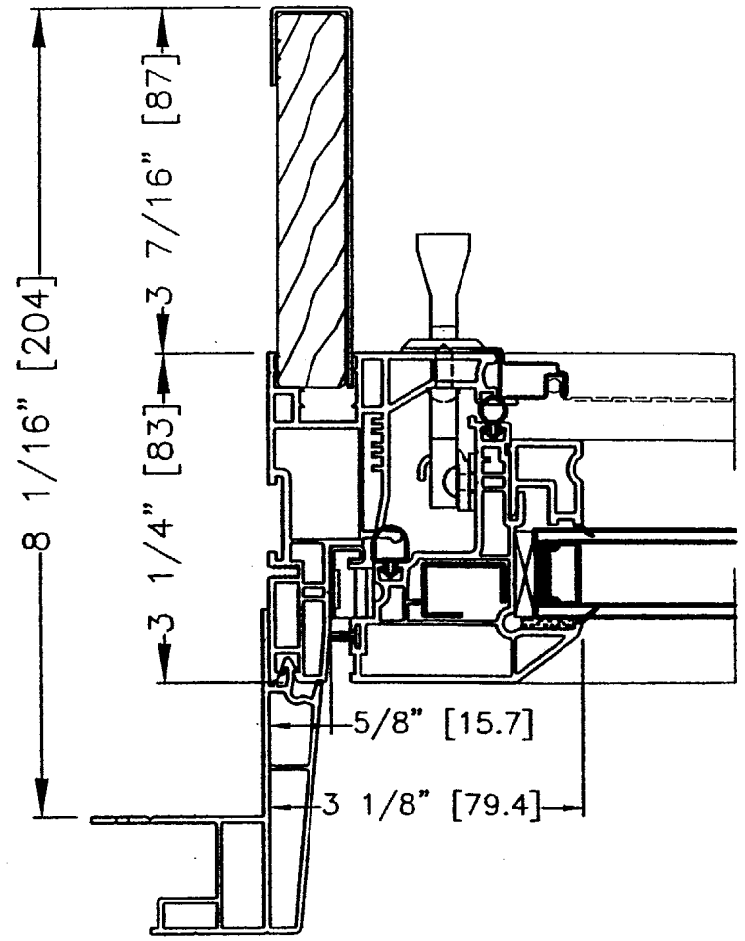
DATE	ECHELLE
01/05/2002	NONE
No DOSSIER	No FEUILLE
028-2002MJV	25D



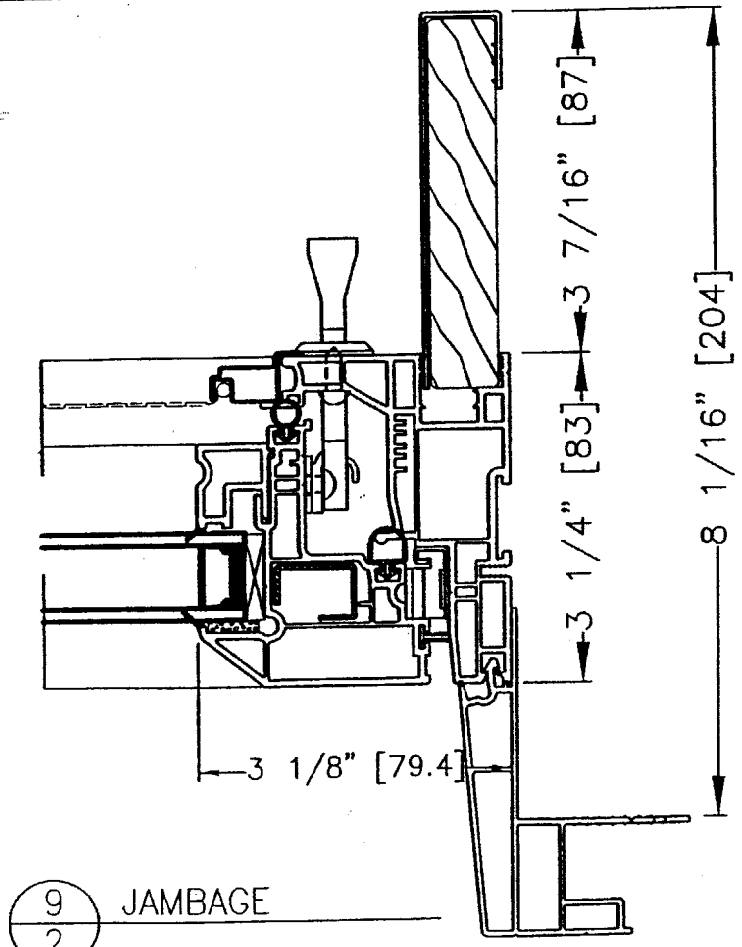
6/2 TÊTE



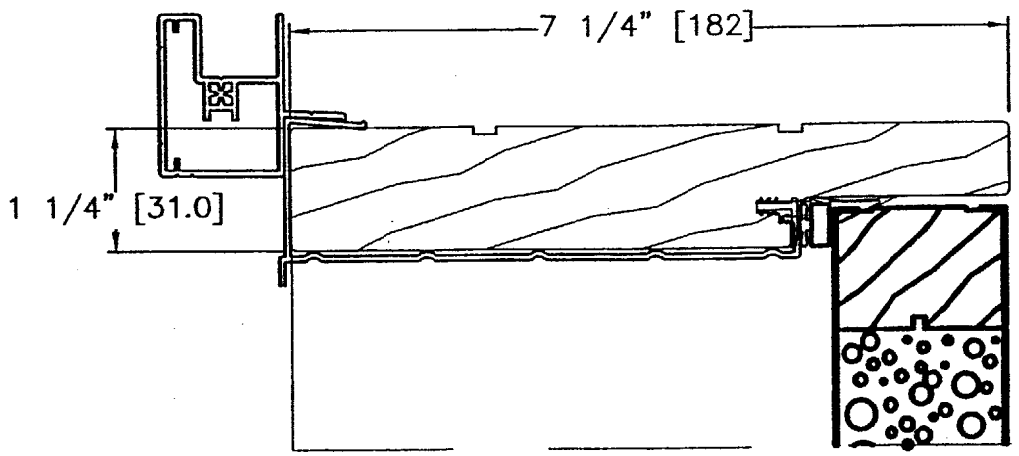
7/2 SEUIL



8/2 JAMBAGE



9/2 JAMBAGE



10/3 TÊTE

GROUPE BOCENOR inc.

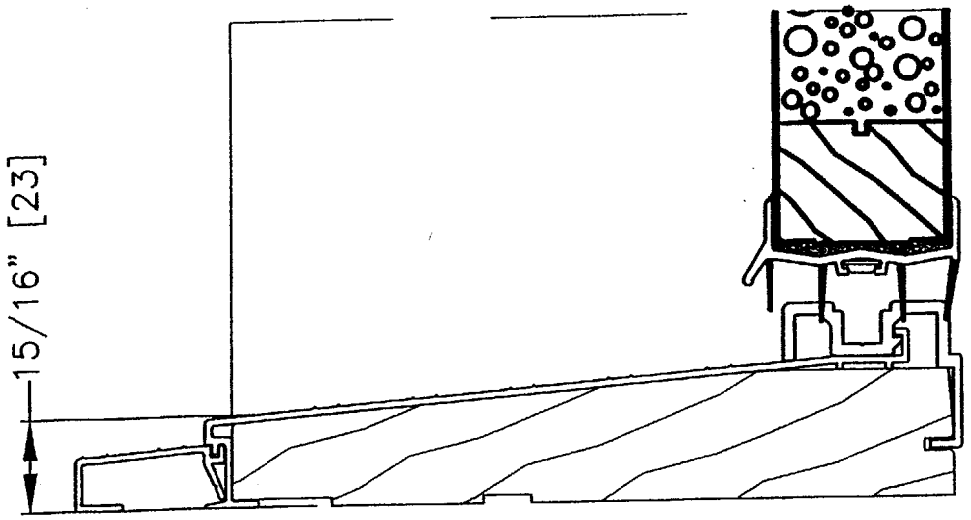
TITRE
COUPES DE FENETRES

DATE 01/05/2002

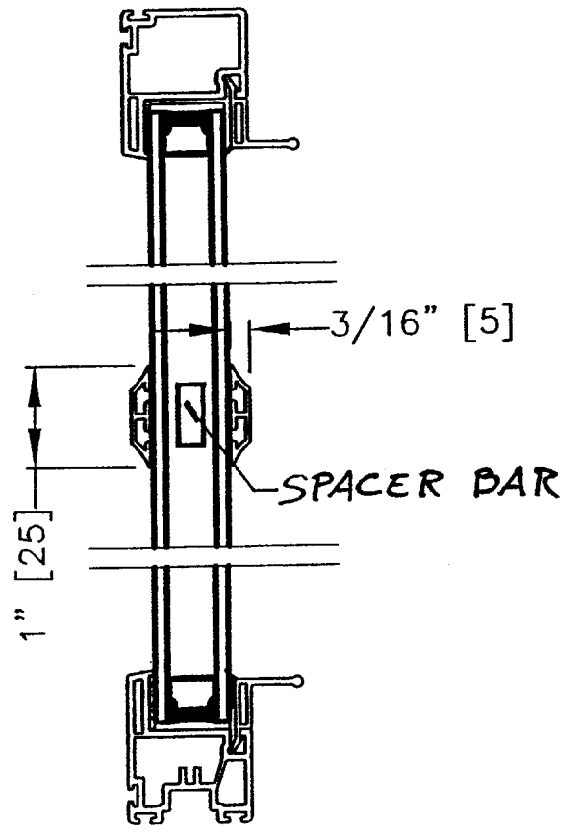
ECHELLE NONE

No DOSSIER 028-2002MJV

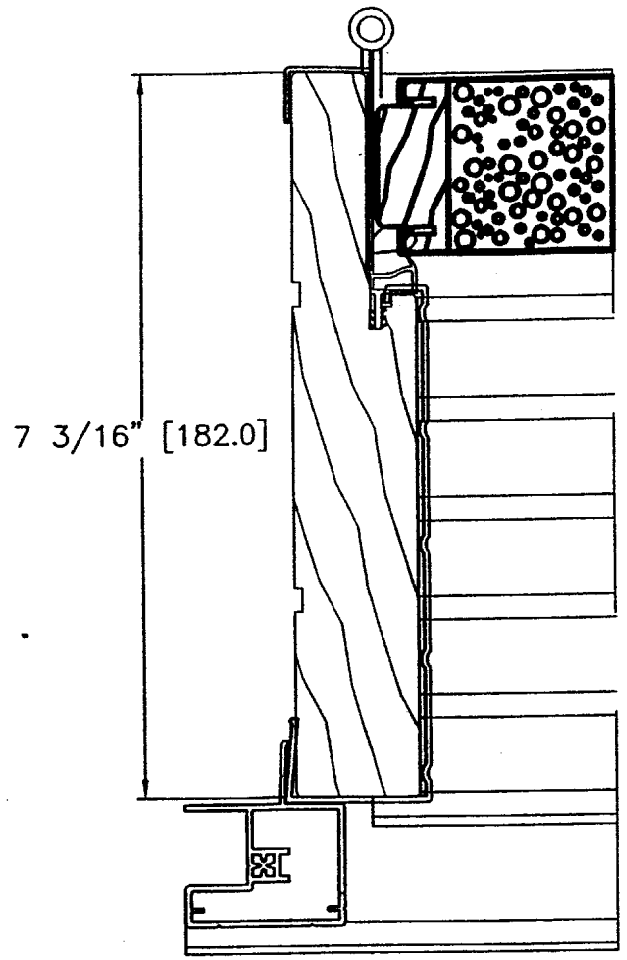
No FEUILLE 25



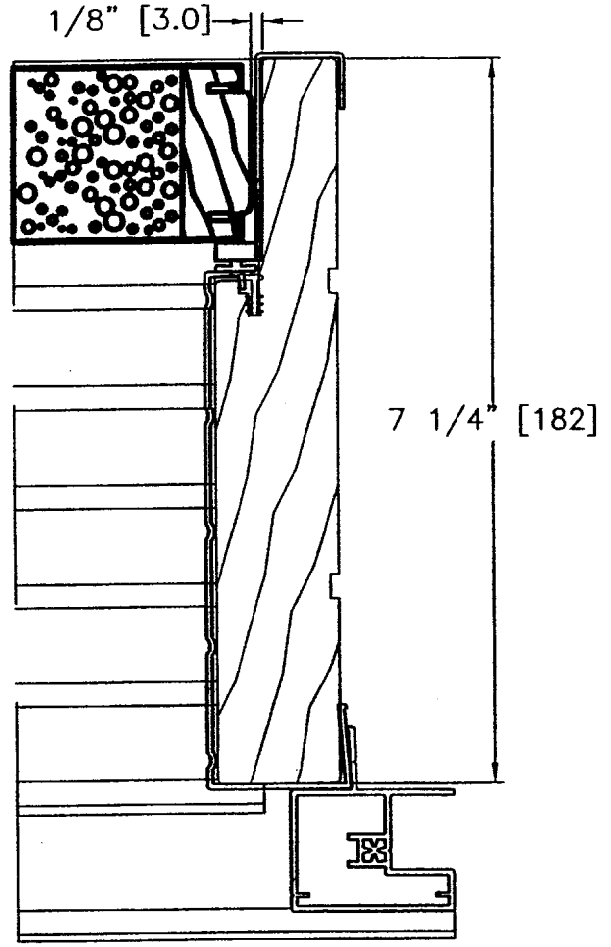
11/3 SEUIL



Faux croisillon



12/3 JAMBAGE



13/3 JAMBAGE

GROUPE BOCENOR INC.

TITRE

COUPES DE FENETRES

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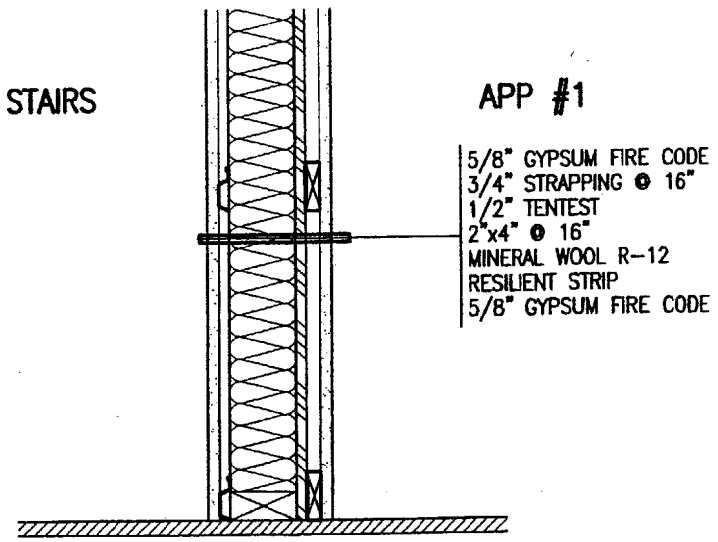
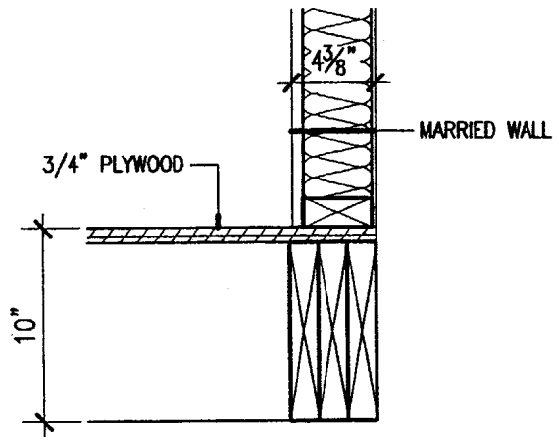
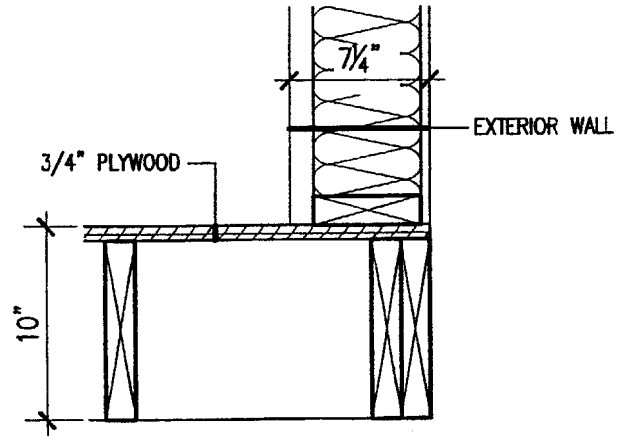
01/05/2002	NONE
No DOSSIER	No FEUILLE
028-2002MJV	25F



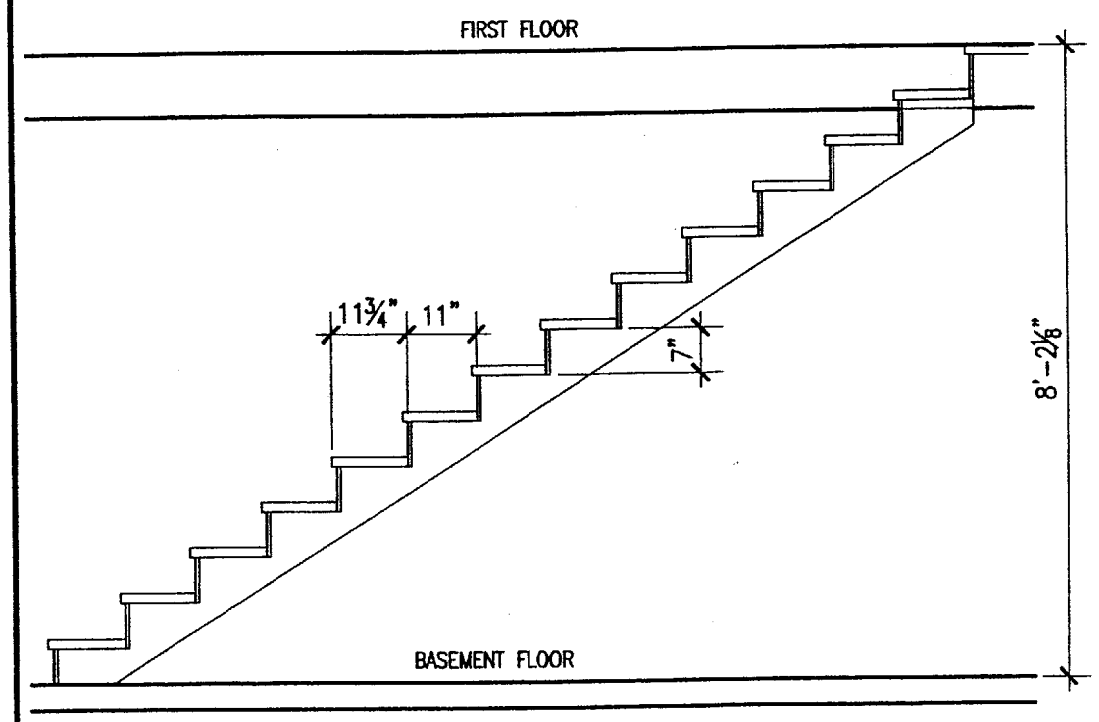
FIRE WALL DÉTAIL
FIRST FLOOR



FLOOR DETAILS
AT MARRIED WALL
FIRST AND SECOND FL.

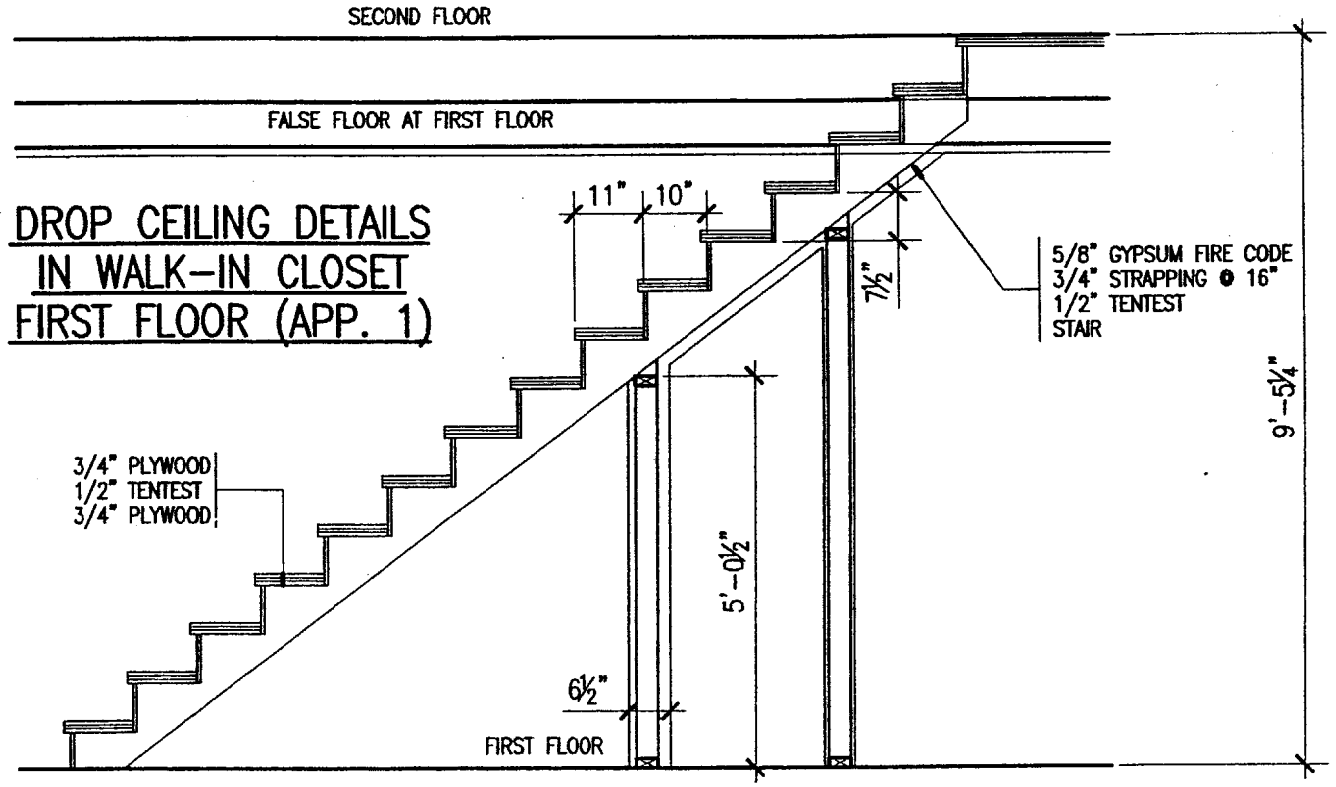


FLOOR DETAILS
AT EXTERIOR WALL
FIRST AND SECOND FL.



STAIRS (FIRST FL. TO BASEMENT)

DROP CEILING DETAILS
IN WALK-IN CLOSET
FIRST FLOOR (APP. 1)



STAIRS (FIRST FL. TO SECOND FL.)
AND STAIRS (SECOND FL. TO THIRD FL.)

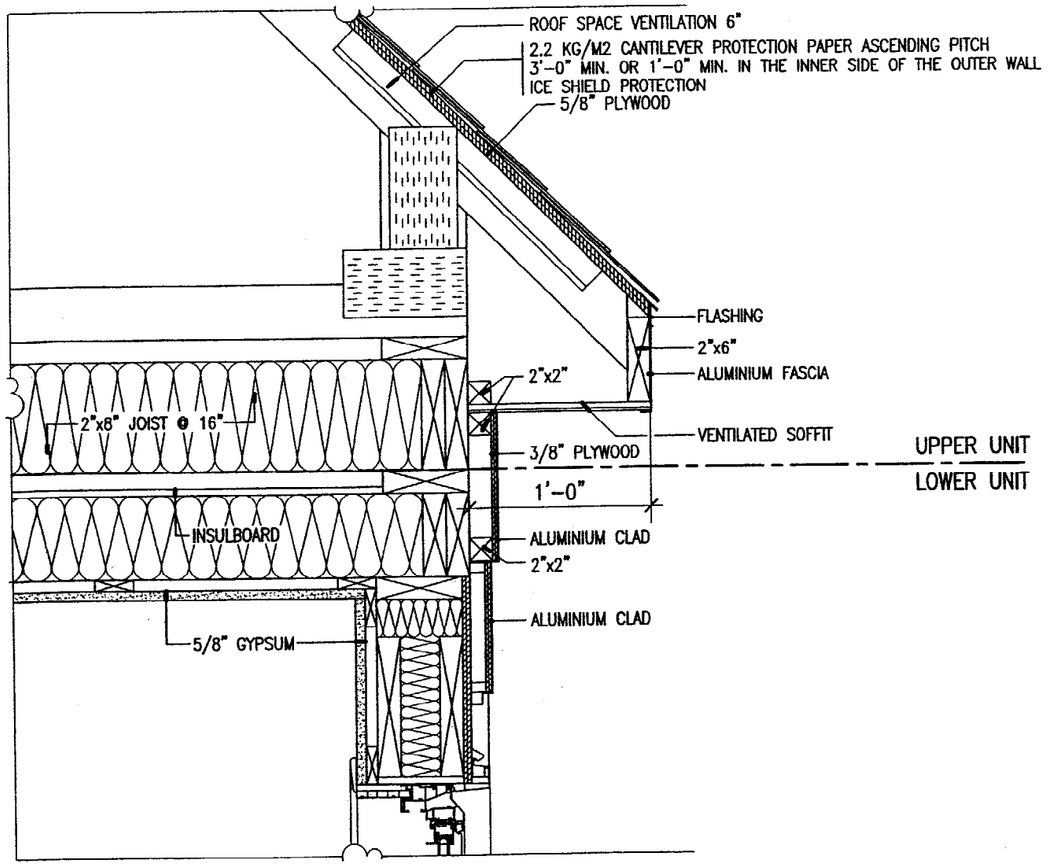
HABITEC 2000®

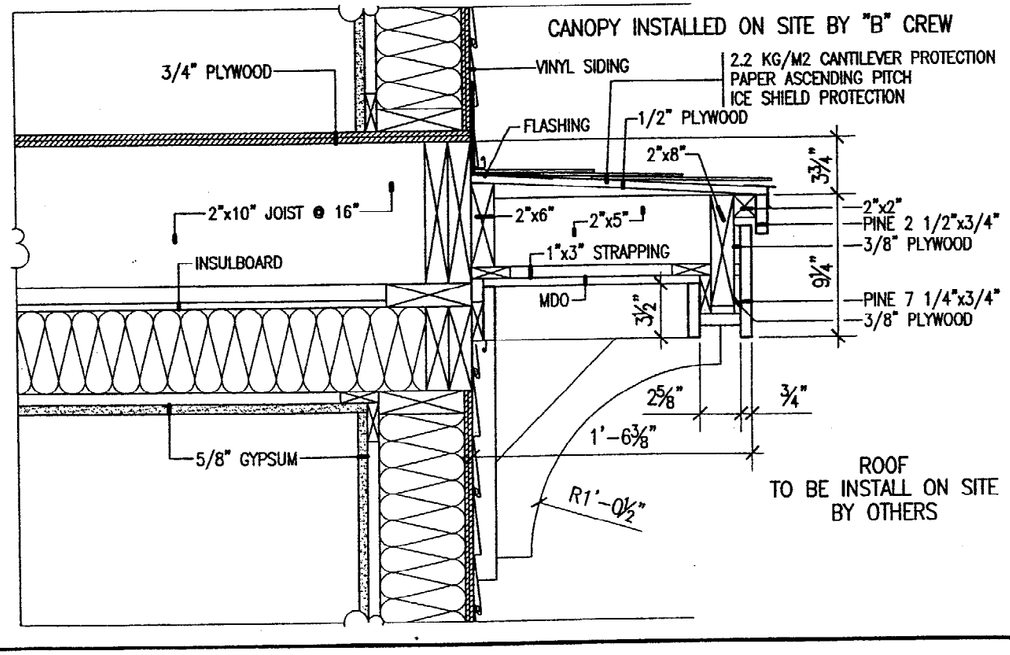
PROP

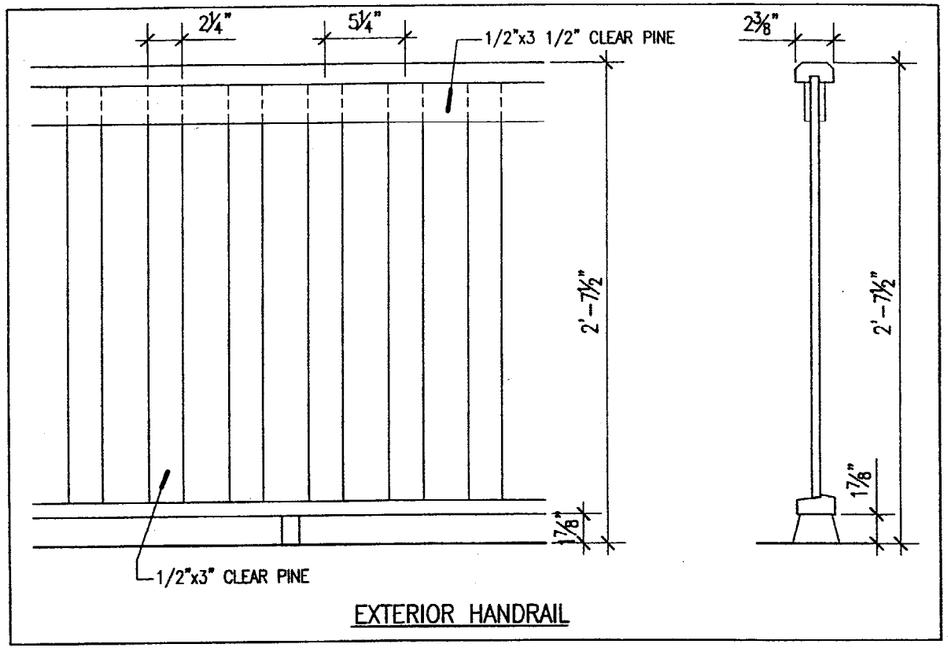
49 HANOVER STREET
PORTLAND

C- 07578

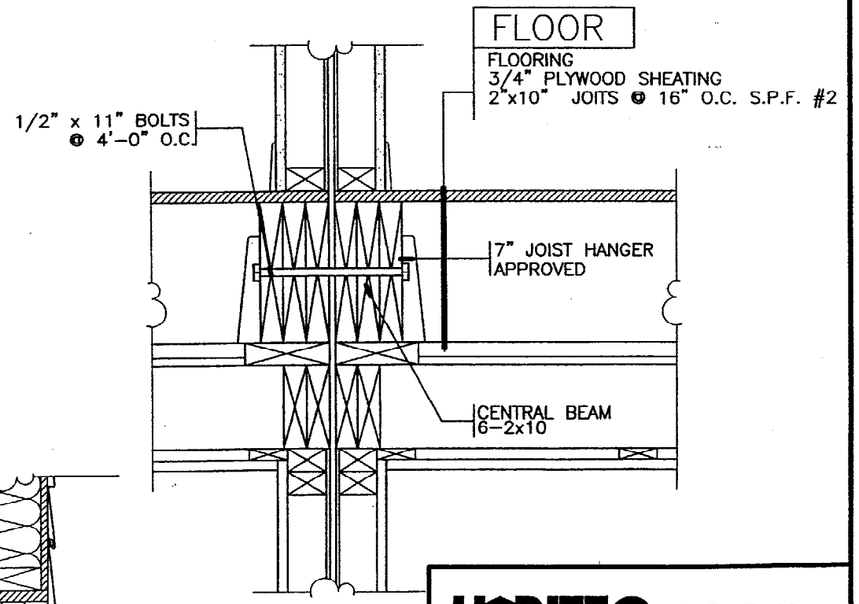
Scale:	Dr. by:	App. by:
NONE	S.B.	
Date: 08/09/2002	Plan: DÉTAILS	Page 26A

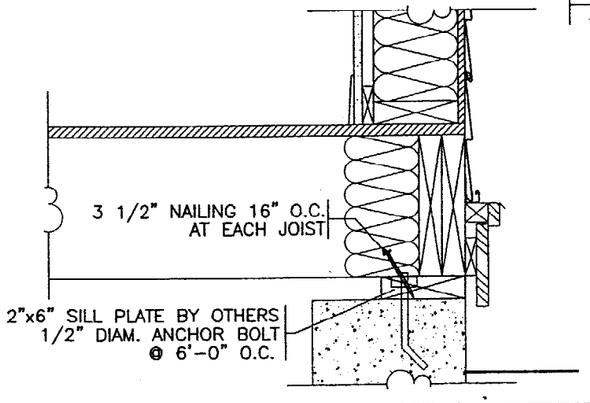






EXTERIOR HANDRAIL

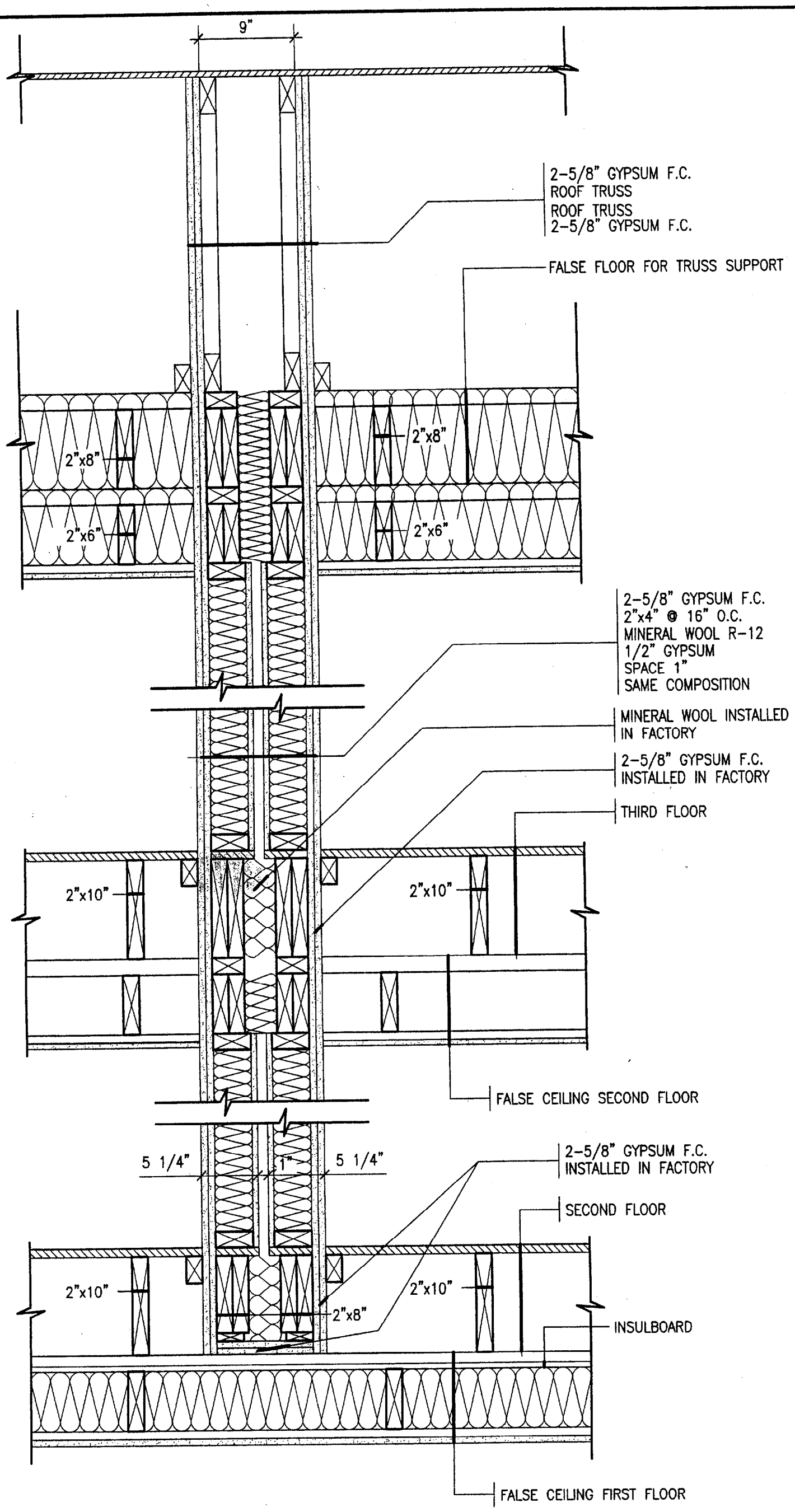




HABITEC 2000®

PROP

49 HANOVER STREET PORTLAND		C- 07578
Scale: NONE	Dr. by: S.B.	App. by:
Date: 08/09/2002	Plan: DÉTAILS	Page 26B



MARRIED WALL (2 HRES)

HOBITEC 2000 ®

Échelle: 1:10

Dessiné par: S.B.

App. par:

Date: 08/09/2002

Plan: MARRIED WALL

PORTLAND
49 HANOVER STREET

C- 07578

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PROP