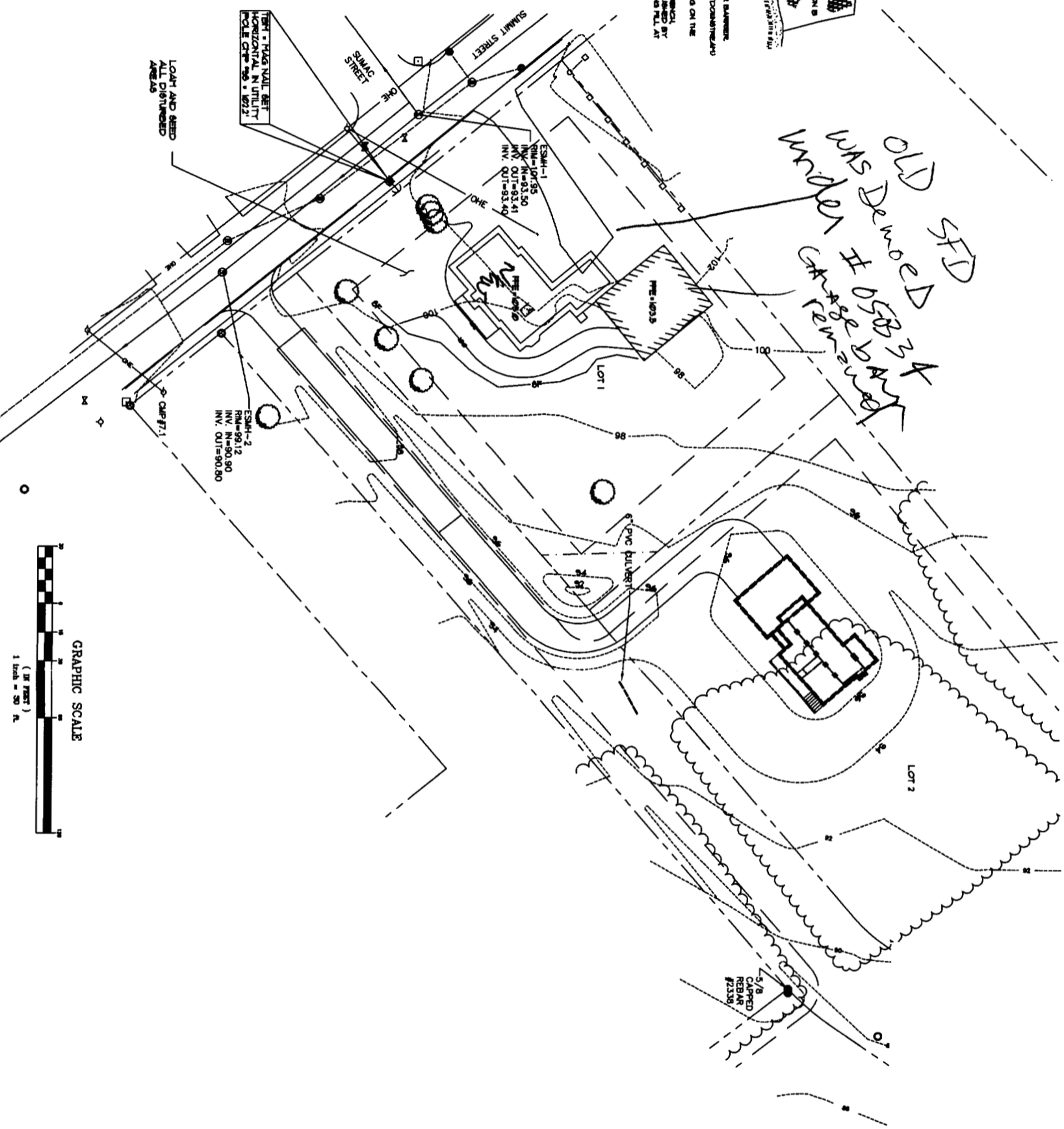


- INSTALLATION:**
1. LOCATE A 6" x 6" TIMBER ALONG THE LINE OF PLACEMENT FOR THE FILTER BARRIER.
 2. LAY A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) END OF THE TIMBER.
 3. DRIVE POSTS INTO THE GROUND UNTIL APPROXIMATELY 7' OF FABRIC IS LYING ON THE GROUND.
 4. LAY THE REMAINING FABRIC OVER THE UNDISTURBED BOTTOM OF THE TIMBER. BACKFILL THE FABRIC LAY ON UNDISTURBED GROUND AND FILLING AND TAMPING FILL AT THE BACK END FIRST BE ACCOMPANIED BY AN INTERSECTION CHECK.
 5. DON SECTION AS SHOWN ABOVE.
 6. BARRIER SHALL BE REPAIR ALTITUDE ON SOUL.

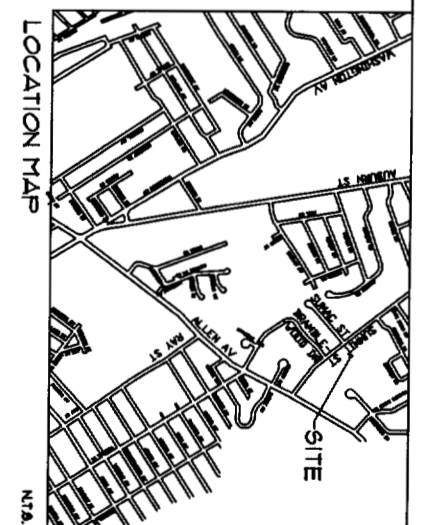
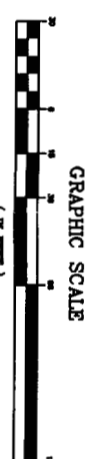
FILTER BARRIER
NOT TO SCALE

*OLD SFD
WAS DEMOLISHED
UNDER # 05823 A
GARAGE REMOVED*



LOFT AND REED
ALL DISTURBED
AREAS

VERT. ELEVATION SET
FOR FINISHED FLOOR
ELEVATION IN FEET
DATE: 08-29-05



NOTE:
NEW BUILDING WILL UTILIZE THE EXISTING
MANHOLE SEWER WATER AND
GAS SERVICE ELECTRICAL LINES THAT
SERVE THE PREVIOUS BUILDING

LEGEND

EXISTING	DESCRIPTION	PROPOSED
---	PROPOSED/NEW	---
	SETBACK	---
	BUILDING	---
	EDGE PAVEMENT	---
---	CURBLINE	---
---	CONTIGUOUS	---
---	WATER	---
---	SEWER	---
---	STORM DRAIN	---
---	OVERHEAD	---
---	ELEC. & TEL.	---
---	GATE VALVE	---
---	UTILITY POLE	---
---	CATCH BASIN	---
---	MANHOLE	---
---	CL. VERT.	---
---	SPOT GRADE	---
---	DECIDUOUS TREE	---
---	CONIFEROUS TREE	---
---	MILT FENCE	---
---	BENCHMARK	---
---	RR-ROAD	---
---	FINISHED FLOOR ELEVATION	---

GRADING PLAN
OF
WHITE PROPERTY: LOT 1
SUMMIT STREET
PORTLAND, MAINE
FOR RECORD OWNER:
PAUL G. WHITE
50 ALLEN AVENUE
PORTLAND, MAINE 04103

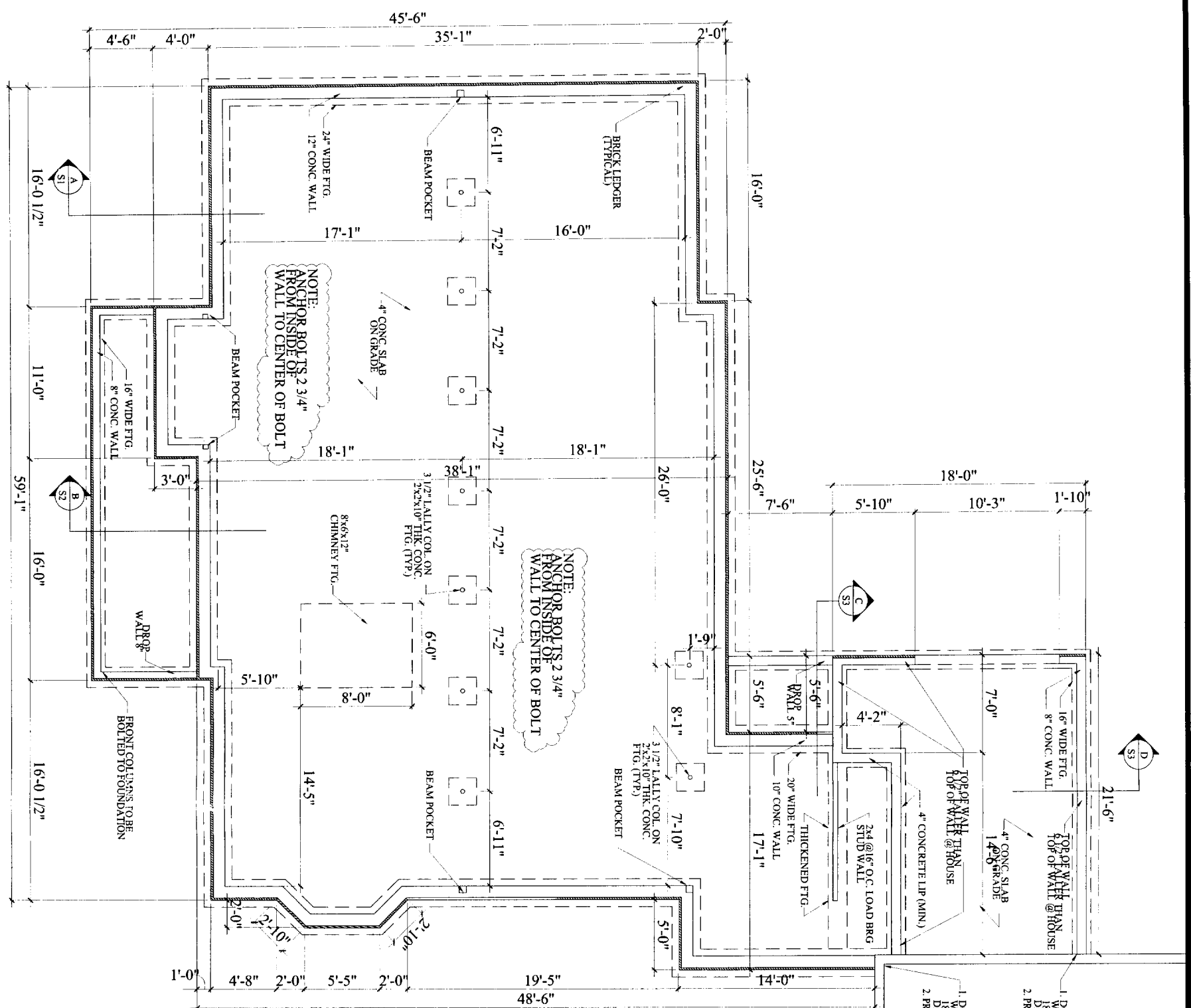
Sebago Technics
Engineering Expertise You Can Build On
One Chabot Street
Westbrook, Me 04098-1339
Tel (207) 856-0277

PROJECT NO.	FIELD BOOK	DESIGN	CHKD	DRAWN
04033	778	SMF	SMF	PLS

REV: A	BY: SMF	DATE: 8-29-05	STATUS: PROVIDE GRADING PLAN TO CLIENT
THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.			

DATE: 8-24-05	SCALE: 1"=30'
---------------	---------------

C:\CAD DRAWINGS\custom house plans\PAUL WHITE\SITE\04033GU2-AUGUST 2005.dwg. 9/12/2005 7:45:41 SHEET WOF 1 63



1 FOUNDATION PLAN
1/4" = 1'-0"

- 1. DOWEL NEW WALL TO EXISTING WALL. PROVIDE 2 #4x12" EPOXY DOWELS AT 6" ON CENTER INTO EXISTING WALL.
- 2. PROVIDE (2) #4x12" DOWELS INTO EXISTING FOOTING.

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NOTES:

1. ALL BEAMS ARE L9E PARALAMS UNLESS OTHERWISE NOTED.
2. ALL SPECIFIED HEADER POST AND JACK STUDS & SHOULD EXTEND TO THE UNDERSIDE OF HEADER. CONTRACTOR SHOULD PROVIDE (1) ZKING STUD.
3. QUANTITY OF (2) 2x8 BUILT UP POSTS ARE NUMBER REQ'D @ EACH END OF HEADER UNLESS OTHERWISE NOTED.
4. ALL NEW STRUCTURAL POSTS SHALL CONTINUE DOWN TO NEXT FLOOR LEVEL.
5. GENERAL CONTRACTOR TO COMPLY WITH BOCA 1999 TABLE 2305.2 FASTENING SCHEDULE.
6. ALL STRUCTURAL STEEL TO BE ASTM 992 FV-50 KSI.

Builders Name and Address

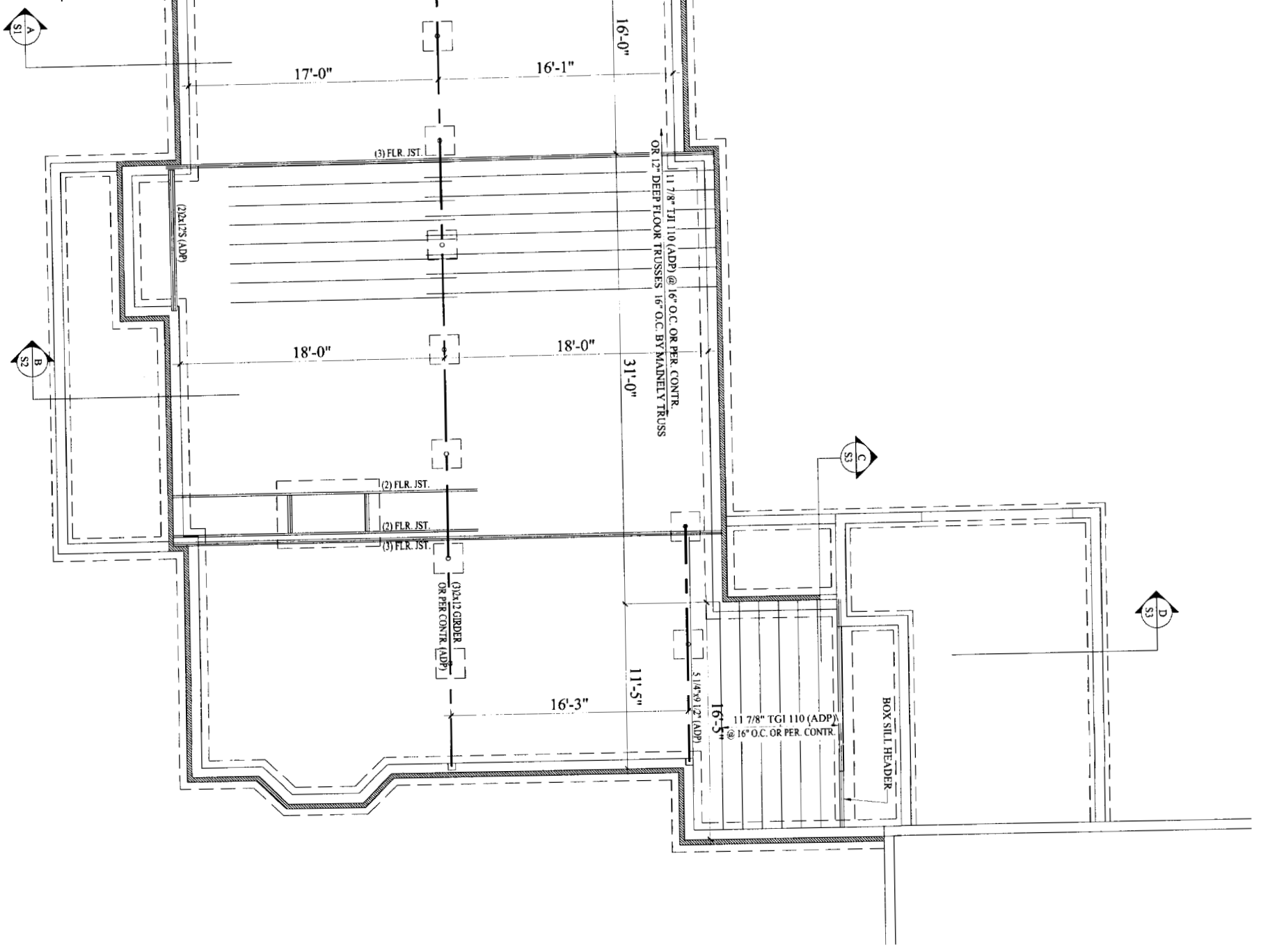
CHAMBERLAIN CONSTRUCTION
1022 PORTLAND ROAD
SACO ME
PHONE: 282-7377

FOUNDATION PLAN

THE DESIGNERS OF CHAMBERLAIN CONSTRUCTION ARE PROFESSIONAL ENGINEERS AND ARCHITECTS. THE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CHAMBERLAIN CONSTRUCTION, INC. AND ARE NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF CHAMBERLAIN CONSTRUCTION, INC. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CONCEPTUAL DRAWINGS. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL, STATE AND FEDERAL BUILDING CODES AND REGULATIONS. THE DESIGNERS SHALL NOT BE RESPONSIBLE FOR ANY CONSTRUCTION NOT SHOWN OR FOR ANY CONSTRUCTION NOT SHOWN WITH REGARD TO THESE CONCEPTUAL DRAWINGS.

Project Name	White
Scale	1/4" = 1'-0"
Sheet	A3
Date	8/7/2005
Author	WJ
Checker	WJ
Drawn	WJ

1 FRAMING PLAN
1/8" = 1'-0"



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NOTES:
 1. ALL BEAMS ARE 1 9/8 PARALAMS UNLESS OTHERWISE NOTED.
 2. ALL SPECIFIED HEADER POST ARE JACK STUDS & SHOULD EXTEND TO THE UNDERSIDE OF HEADER. CONTRACTOR SHOULD PROVIDE (1) 2x8 STUD.
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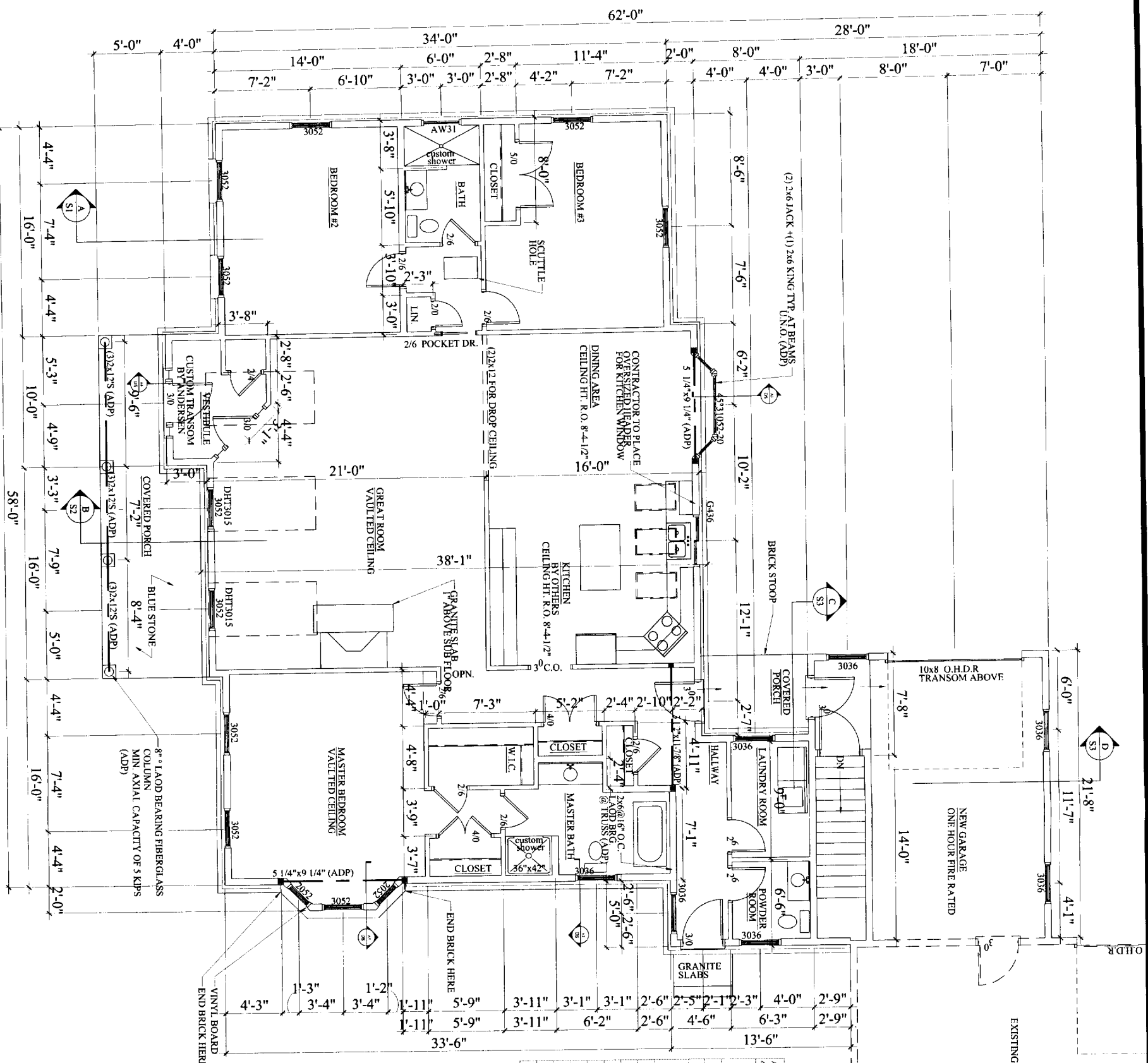
Project Name	PAUL WHITE
Scale	1/8" = 1'-0"
Sheet	A4
Drawn	STR
Checked	STR
Date	9/12/05
Revision/Date	000

Builders Name and Address
CHAMBERLAIN CONSTRUCTION
 1022 PORTLAND ROAD
 SACO ME
 PHONE: 282-7377

FIRST FLOOR FRAMING PLAN

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1 FIRST FLOOR PLAN
1/8" = 1'-0" FROM ROUND STONE WAY



NOTE:
 1. ALL WINDOWS ARE TO BE ANDERSEN 400 SERIES
 2. ALL WINDOWS TO BE STAIN GRAINED
 3. ALL WINDOWS ARE TO HAVE BRASS HARDWARE
 4. ALL WINDOWS BOTTOM OF HEADER TO BE 6'-10"

UNLESS TRANSOM ATTACHED

MARK	UNIT SIZE	TYPE	QTY	GRANITE SILLS	GRANITE LINTELS	NOTES
AW31	2-11-15/16"	AWN	1	5 1/4"x3-1/2" 15/16"	8"x3-7/8" 15/16"	
G436	3-1-1-1/4"	GLDR	1	5 1/4"x4-7/8" 1/4"	8"x4-7/8" 1/4"	
3036	3-1-5/8"	DBH	4	5 1/4"x3-9/8" 5/8"	8"x3-9/8" 5/8"	
3036	3-1-5/8"	DBH	3	NONE	NONE	3 1/2" CASING
2042	2-1-5/8"	DBH	3	NONE	NONE	
4531052-20	7-1-13/16"	BAY	1	NONE	NONE	
VSE 108	21-1/2"	SKY	2	NONE	NONE	STATIONARY
VSE 108	21-1/2"	SKY	1	NONE	NONE	VENTING

THIS P.E. REVIEW COVERS STRUCTURAL FRAMING MEMBERS DENOTED BY (ADP) ONLT. DESIGN AND DETAIL FOR FOUNDATION ELEMENTS FRAMING CONNECTIONS UNLESS OTHERWISE NOTED, COMPONENTS AND CLADDING FINISHES, FLOOR PLAN LAYOUT, AND LIFE SAFETY CODE REQUIREMENTS HAVE NOT BEEN REVIEWED AND ARE BEYOND THE PURVIEW OF THIS P.E. SEAL. USE OF THESE DRAWINGS INDICATES OWNER CONTRACTOR AGREEMENT TO THESE TERMS.

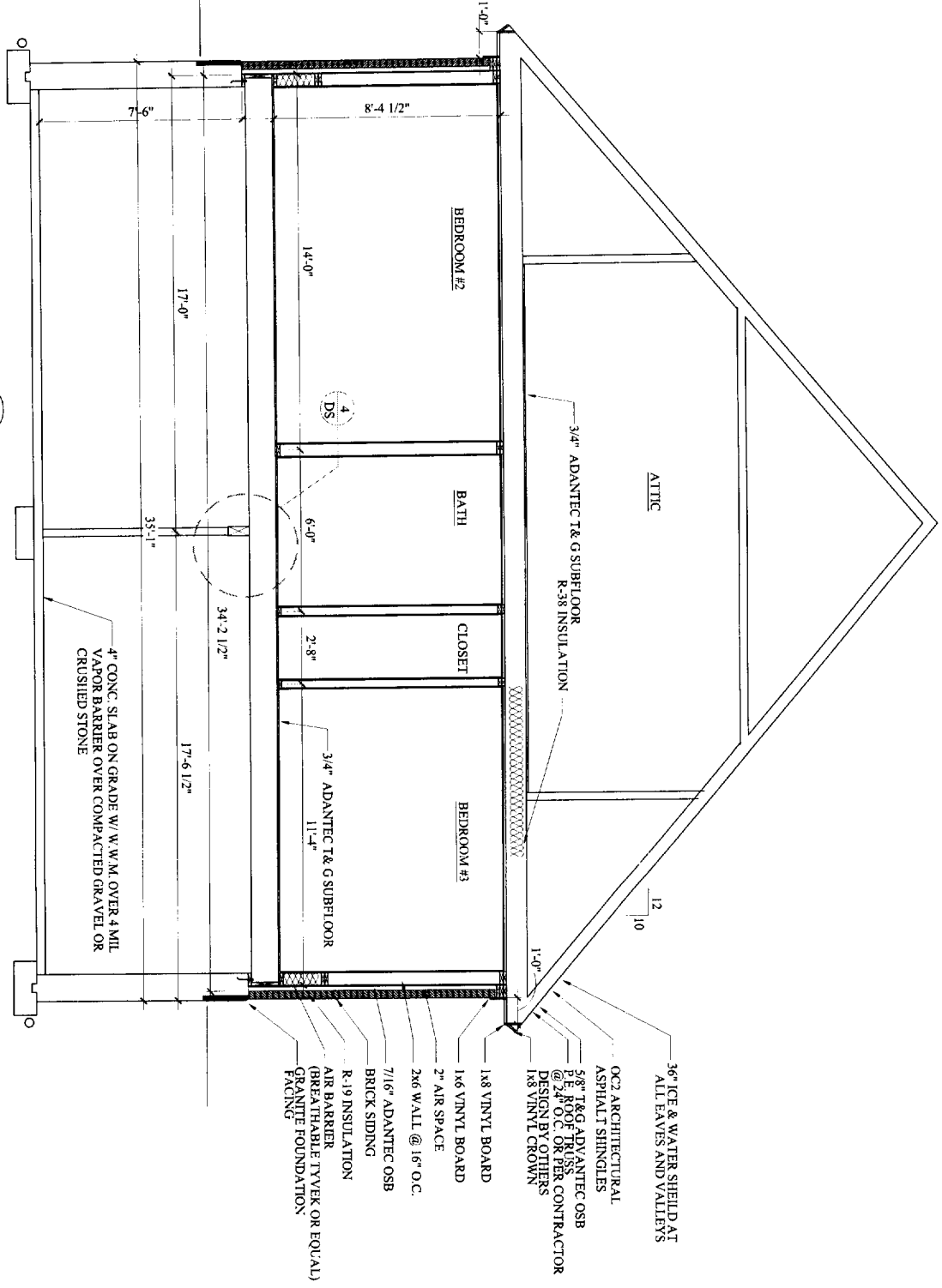
NOTES:
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Project/White	Sheet
Total Sheets	A5
Date	9/17/05
Author/Draw	
Check	

Builders Name and Address
CHAMBERLAIN CONSTRUCTION
 1022 PORTLAND ROAD
 SACCO ME
 PHONE: 282-7377

FIRST FLOOR PLAN

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A
3'-8"=1'-0"
BUILDING SECTION

- 36" ICE & WATER SHIELD AT ALL EAVES AND VALLEYS
- OC2 ARCHITECTURAL ASPHALT SHINGLES
- 5/8" T&G ADVANTEC OSB P.E. ROOF TRUSS @ 24" O.C. OR PER CONTRACTOR DESIGN BY OTHERS
- 1x8 VINYL CROWN
- 1" DS
- 1x8 VINYL BOARD
- 1x6 VINYL BOARD
- 2" AIR SPACE
- 2x6 WALL @ 16" O.C.
- 7/16" ADVANTEC OSB BRICK SIDING
- R-19 INSULATION
- AIR BARRIER (BREATHABLE TYVEK OR EQUAL)
- GRAVITE FOUNDATION

4" CONC. SLAB ON GRADE W/ W.W.M. OVER 4 MIL VAPOR BARRIER OVER COMPACTED GRAVEL OR CRUSHED STONE

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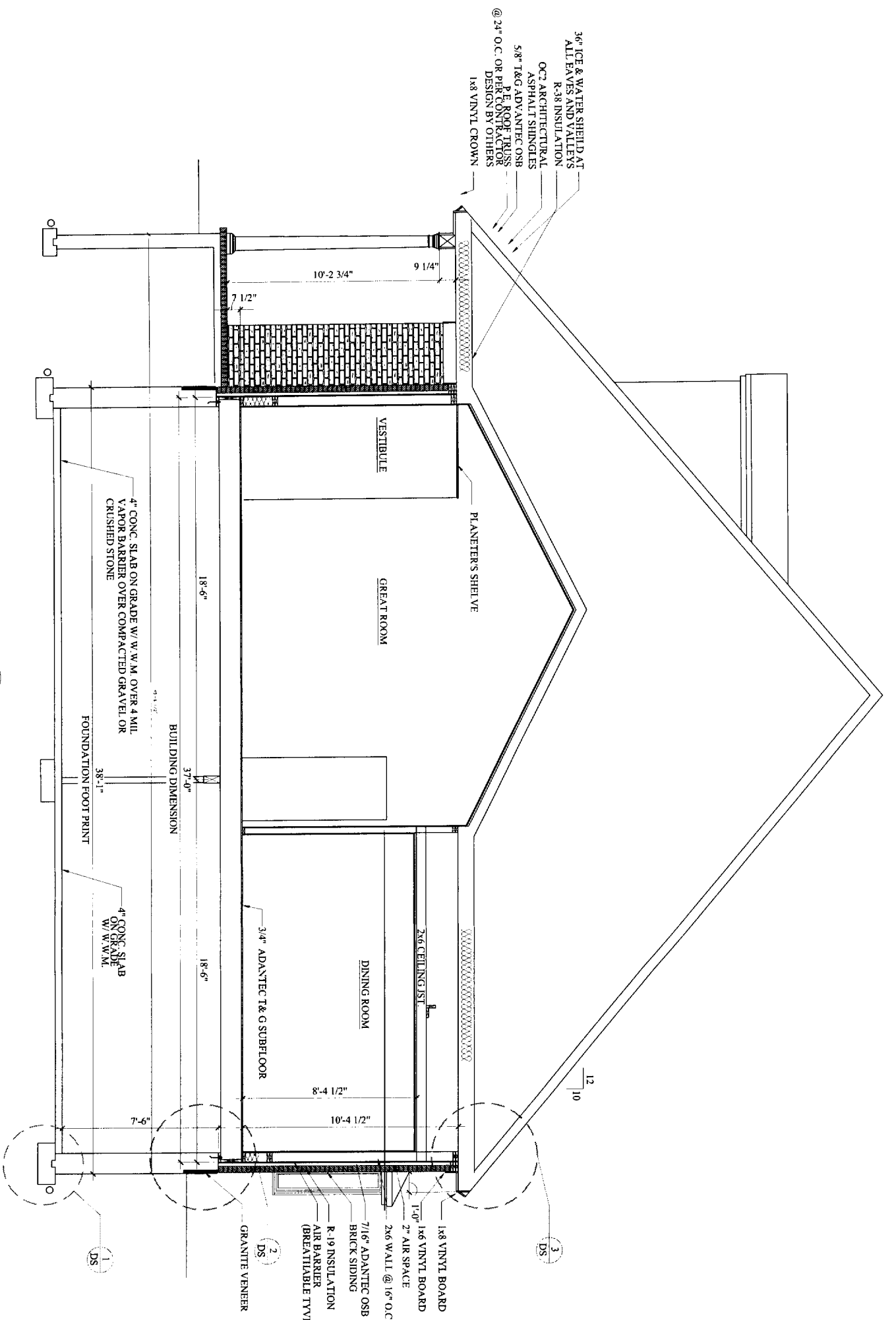
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BUILDING SECTIONS

Builders Name and Address

CHAMBERLAIN CONSTRUCTION
1022 PORTLAND ROAD
SACO ME
PHONE: 282-7377

Project Name	Sheet
Scale	S1
Date	
Drawn By	
Checked By	
Scale	1/4"=1'-0"



B
 BUILDING SECTION
 3/8"=1'-0"

THIS P.E. REVIEW COVERS STRUCTURAL FRAMING MEMBERS DENOTED BY (ADP), ONLY. DESIGN AND DETAIL FOR FOUNDATION ELEMENTS, FRAMING CONNECTIONS (UNLESS OTHERWISE NOTED), COMPONENTS AND CLADDING, FINISHES, FLOOR PLAN LAYOUT, AND LIFE SAFETY CODE REQUIREMENTS HAVE NOT BEEN REVIEWED AND ARE BEYOND THE PURVIEW OF THIS P.E. SEAL. USE OF THESE DRAWINGS INDICATES OWNER/CONTRACTOR AGREEMENT TO THESE TERMS.

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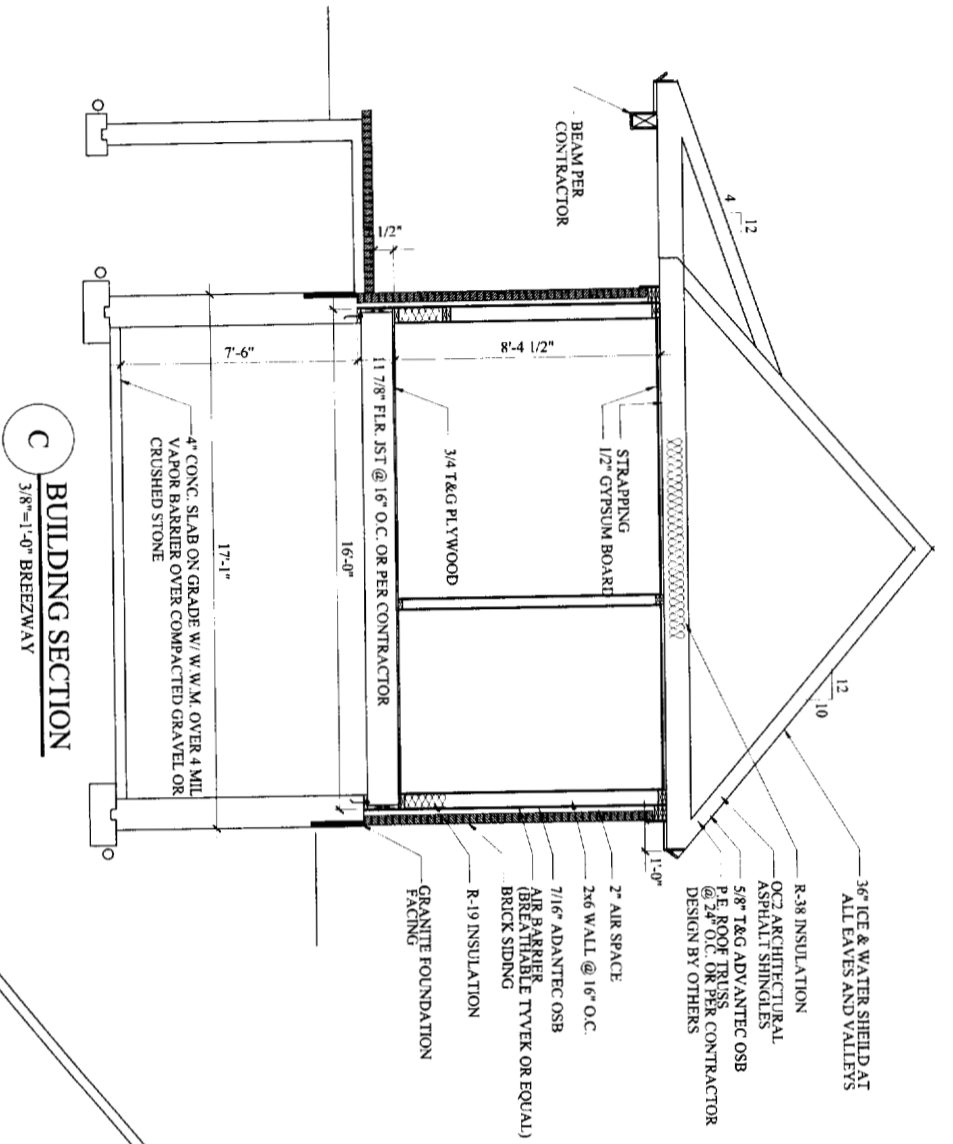
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BUILDING SECTIONS

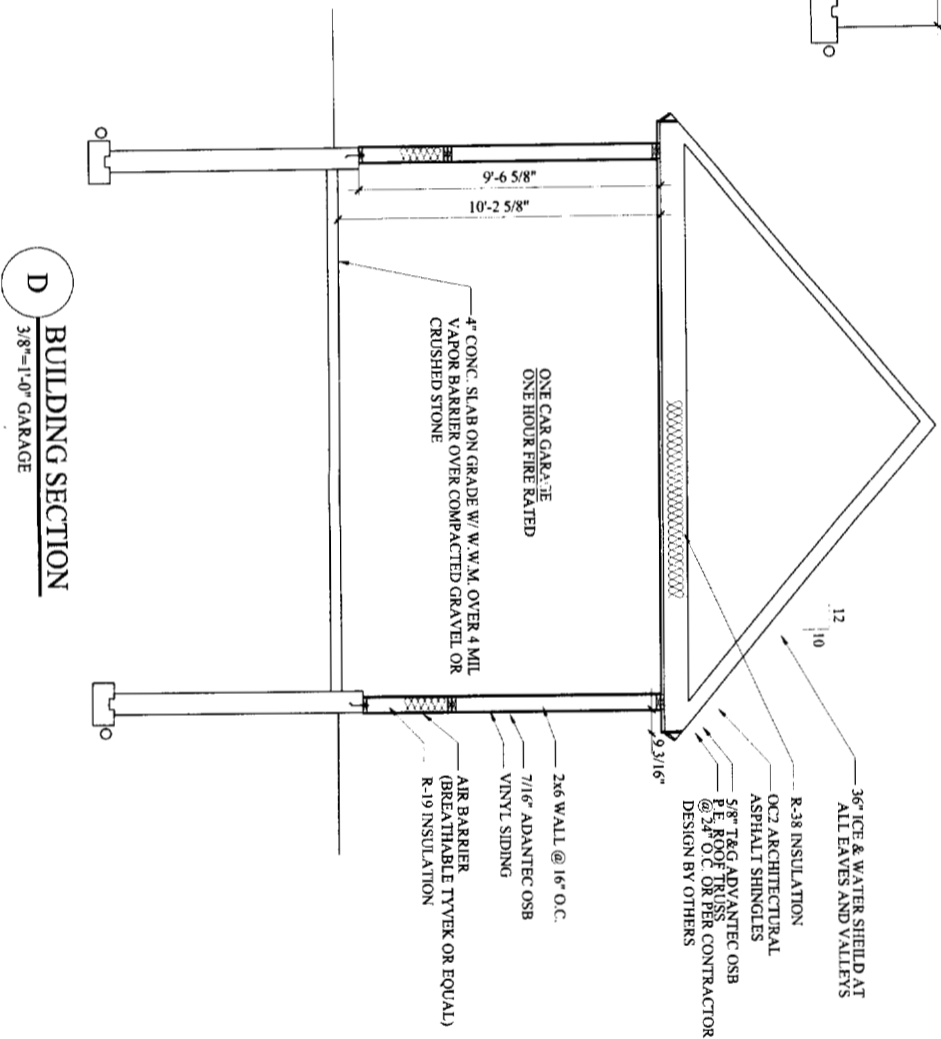
Builders Name and Address

CHAMBERLAIN CONSTRUCTION
 1022 PORTLAND ROAD
 SACO ME
 PHONE: 282-7377

Project Name	WHITE
Date	5/17/05
Scale	1/4"=1'-0"
Sheet	S2



C
BUILDING SECTION
3/8"=1'-0" BREZEWAY



D
BUILDING SECTION
3/8"=1'-0" GARAGE

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 3. QUANTITY OF (2) 2x 8 S BUILT UP POSTS ARE NUMBER REQ'D @ EACH END OF HEADER UNLESS OTHERWISE NOTED.
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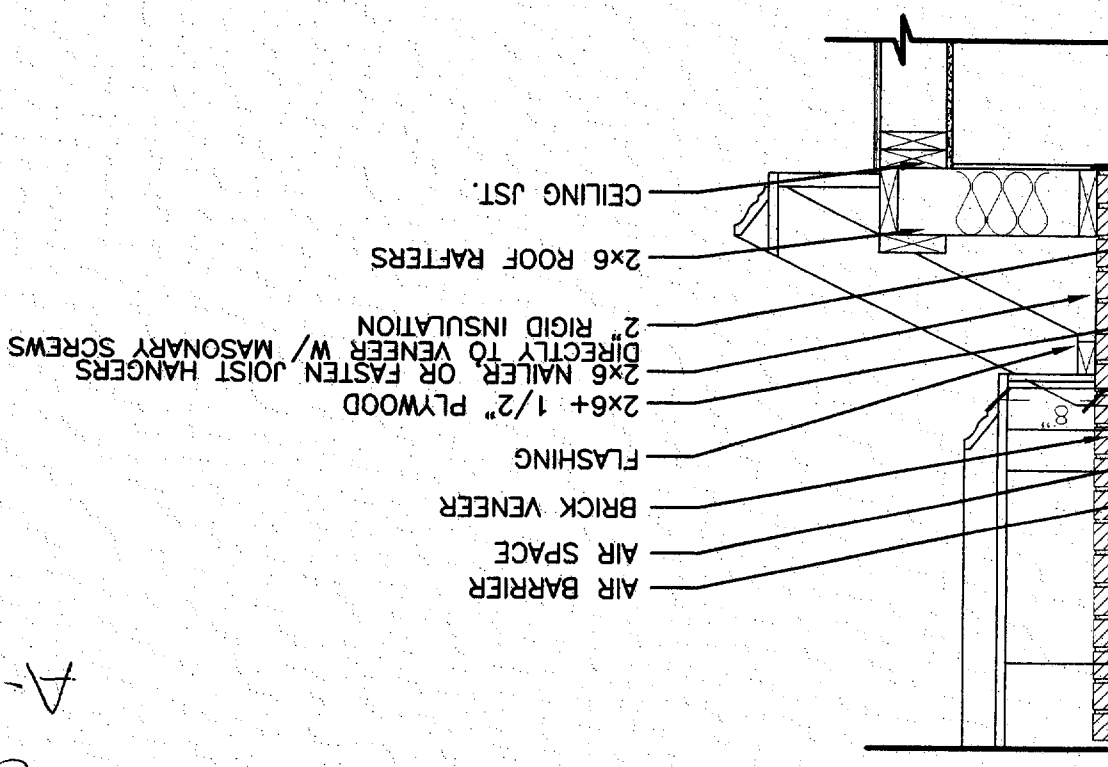
THE SERVICES OF CHAMBERLAIN CONSTRUCTION ARE NOT AN INSURETY, AND NO ENGINEER, THE SEAL OF WHICH IS PROVIDED HEREIN, IS PROVIDING ANY GUARANTEE, WARRANTY, OR PROFESSIONAL OPINION FOR THE DESIGN OR CONSTRUCTION OF THIS PROJECT. CHAMBERLAIN CONSTRUCTION, INC. WILL BUILD THE PROJECT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ALL CONTRACTORS AND SUBCONTRACTORS SHALL FOLLOW THE A.C.I. CODES AND BUILDING PRACTICES. THE WALL HEIGHT MARKS ARE FOR SILL CONDITIONS. ALL SILL CONDITIONS ARE TO BE HELD AS SHOWN ON SITE. CONDITIONS NOT SHOWN ARE TO BE HELD AS SHOWN TO THE BEST OF THE ARCHITECT'S KNOWLEDGE.

BUILDING SECTIONS

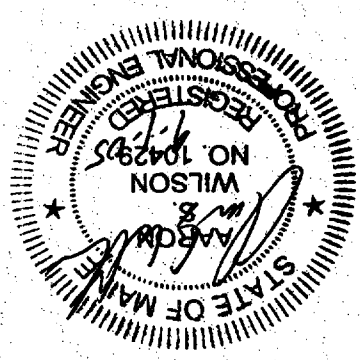
Builders Name and Address
CHAMBERLAIN CONSTRUCTION
 1022 PORTLAND ROAD
 SACOME
 PHONE: 282-7377

Project Name	PAUL WHITE
Scale	1/4"=1'-0"
Sheet	S3

MASTER BEDROOM WINDOW BUMP OUT



Stamp is also on A-3, A-4, A-5
JMB



- NOTES:
1. ALL BEAMS ARE 2x6 PARALAMS UNLESS OTHERWISE NOTED.
 2. ALL SPECIFIED HEADER POST ARE "JACK STUDS" & SHOULD EXTEND TO THE UNDERSIDE OF HEADER. CONTRACTOR SHOULD PROVIDE (1) 2x4 KING STUD.
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4 staples, 1 3/4"		
Build-up corner studs	10d	24" o.c.
Build-up girders and beams, Anch lumber layers	10d	Nail each layer as follows: 32" o.c. at top and bottom and staggered. Two nails at ends and at each splice.
2" planks	2-16d	At each bearing
Roof rafters to ridge, valley or hip rafters:	4-16d	
Toe nail	3-16d	
Face nail		
Rafter ties to rafters, face	3-8d	

Builders Name and Address

CHAMBERLAIN CONSTRUCTION

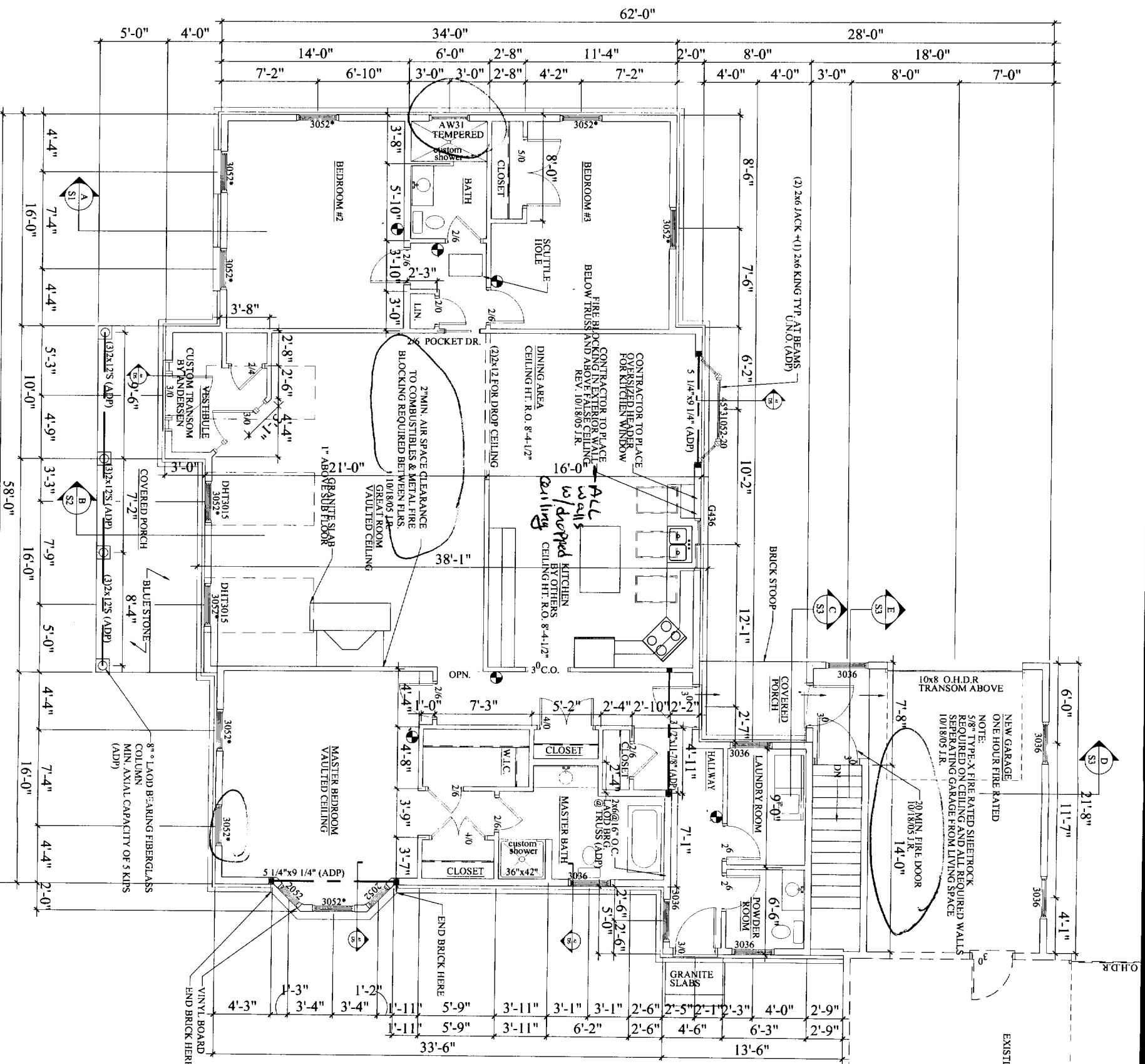
1022 PORTLAND ROAD
SACONNE
PHONE: 282-7377

DETAILS AND SPEC

Project	WHITE
Date	5/19/05
Scale	1/4"=1'-0"
Sheet	DS

No.	Revision/Issue	Date
2	8/29/05 ENGINEER REV.	8/17/05
	FINAL	

FIRST FLOOR PLAN
1/4" = 1'-0" FROM ROUND STONE WAY



CITY OF PORTLAND, MAINE
APPROVED CONSTRUCTION PLANS
OCT 19 2005
SUPERSEDES ALL
PRIOR DATED PLANS

WINDOW SCHEDULE

MARK	UNIT SIZE	WIDTH	HEIGHT	TYPE	QTY	U	GRANITE SILLS	GRANITE LINTELS	NOTES
TW3024	3'-1.5\"/>								

- NOTES:**
- SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS
 - EACH SLEEPING AREA
 - OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS
 - ON EACH ADDITIONAL STORY OF THE DWELLING INCLUDING BASEMENTS
 - ALL SMOKE ALARMS SHALL BE INTERCONNECTED
 - EGRESS WINDOW 10/18/05 J.R.

DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME
OCT 19 2005
RECEIVED

THIS P.E. REVIEW COVERS STRUCTURAL FRAMING MEMBERS DENOTED BY (ADP) ONLY. DESIGN AND DETAIL FOR FOUNDATION ELEMENTS, FRAMING CONNECTIONS (UNLESS OTHERWISE NOTED), COMPONENTS AND CLADDING, FINISHES, FLOOR PLAN LAYOUT, AND LIFE SAFETY CODE REQUIREMENTS HAVE NOT BEEN REVIEWED AND ARE BEYOND THE PURVIEW OF THIS P.E. SEAL. USE OF THESE DRAWINGS INDICATES OWNER/CONTRACTOR AGREEMENT TO THESE TERMS.

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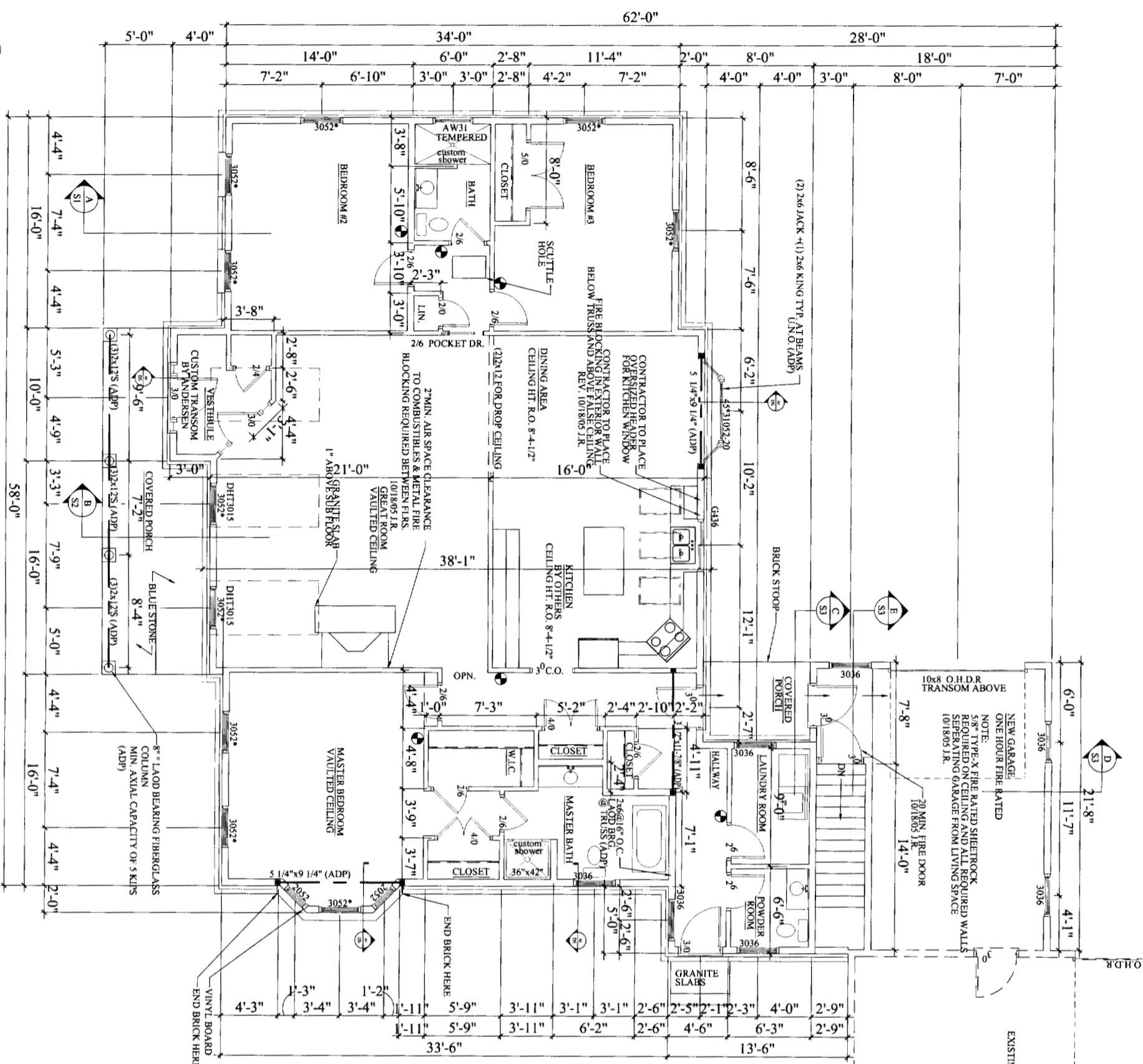
Builders Name and Address
CHAMBERLAIN CONSTRUCTION
 1022 PORTLAND ROAD
 SACO ME
 PHONE: 282-7377

FIRST FLOOR PLAN

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Project Name	Scale
Sheet Number	AS
Date	10/19/05

1 FIRST FLOOR PLAN
1/4" = 1'-0" FROM ROUNDSTONE WAY



MARK	UNIT SIZE	TYPE	QTY	U	GRANITE SILLS	GRANITE LINTELS	NOTES
TW3052*	3'-1.5/8"	DBH	10	0.28%	5'1/4"x3'-9 7/8"	8"x3'-9 7/8"	
TW2022	2'-1.5/8"	DBH	2	0.28%	5'1/4"x2'-9 5/8"	8"x2'-9 5/8"	
DHT3015	3'-1.5/8"	TRAN	2	0.28%	5'1/4"x3'-9 7/8"	8"x3'-9 7/8"	
3052*	7'-0-3/16"	DBH	1	0.28%			
AW31	2'-11-1/16"	AWN	1	0.28%	5'1/4"x3'-7 15/16"	8"x3'-7 15/16"	
tempered	3'-1-1/4"	GLDR	1	0.28%	5'1/4"x4'-7 1/4"	8"x4'-7 1/4"	
G436	3'-1-5/8"	DBH	4	0.28%	5'1/4"x3'-9 5/8"	8"x3'-9 5/8"	
TW3036	3'-1-5/8"	DBH	3	0.28%			
TW3036	3'-1-5/8"	DBH	3	0.28%			
TW2042	2'-1-5/8"	DBH	3	0.28%			
45*31052-20	7'-7-13/16"	RAY	1	0.28%			
VE 108	2'-1-1/2"	SKY	2	NONE			
VE 108	2'-1-1/2"	SKY	1	NONE			

WINDOW SCHEDULE
ANDERSEN 400 SERIES

- NOTE:
1. ALL WINDOWS ARE TO BE ANDERSEN 400 SERIES
 2. ALL WINDOWS TO BE STAIN GRAINED
 3. ALL WINDOWS ARE TO HAVE BRASS HARDWARE
 4. ONE INCH TRANSOM ABOVE TOP OF HEADER TO BE 6'-10"
 5. 3052* DOUBLE HUNG WINDOW MELTS AND EXCEEDS FORESS REORDERING
 - A. CLEAR OPENABLE AREA OF 57.90 FT.
 - B. CLEAR OPENABLE HEIGHT OF 30"
 - C. CLEAR OPENABLE HEIGHT OF 24"

CITY OF PORTLAND, MAINE
 APPROVED CONSTRUCTION PLANS
 OCT 19 2005
 SUPERSEDES ALL
 PRIOR DATED PLANS

DEPT. OF BUILDING INSPECTION
 CITY OF PORTLAND, ME
 OCT 19 2005
RECEIVED

- NOTES:
1. EACH SLEEPING AREA
 2. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS
 3. ON EACH ADDITIONAL STORY OF THE DWELLING INCLUDING BASEMENTS INTERCONNECTED
 4. ALL SMOKE ALARMS SHALL BE INTERCONNECTED
- * EGRESS WINDOW
10/18/05 J.R.

THIS P.E. REVIEW COVERS STRUCTURAL FRAMING MEMBERS DENOTED BY (ADP) ONLY. DESIGN AND DETAIL FOR FOUNDATION ELEMENTS, FRAMING CONNECTIONS (UNLESS OTHERWISE NOTED), COMPONENTS AND CLADDING, FINISHES, FLOOR PLAN LAYOUT, AND LIFE SAFETY CODE REQUIREMENTS HAVE NOT BEEN REVIEWED AND ARE BEYOND THE PURVIEW OF THIS P.E. SEAL. USE OF THESE DRAWINGS INDICATES OWNER/CONTRACTOR AGREEMENT TO THESE TERMS.

NOTES:

1. ALL BEAMS ARE 1:9E PARALAMS UNLESS OTHERWISE NOTED.
2. ALL SPECIFIED HEADER POSTS ARE "JACK STUDS" & SHOULD EXTEND TO THE UNDERSIDE OF HEADER. CONTRACTOR SHOULD PROVIDE (1) 2XKING STUD.
3. QUANTITY OF (2) 2x S BUILT UP POSTS ARE NUMBER REQ'D @ EACH END OF HEADER UNLESS OTHERWISE NOTED.
4. ALL NEW STRUCTURAL POSTS SHALL CONTINUE DOWN TO NEXT FLOOR LEVEL.
5. GENERAL CONTRACTOR TO COMPLY WITH BOCA 1999 TABLE 2305.2 FASTENING SCHEDULE E.
6. ALL STRUCTURAL STEEL TO BE ASTM 992 Fy=50 KSI.

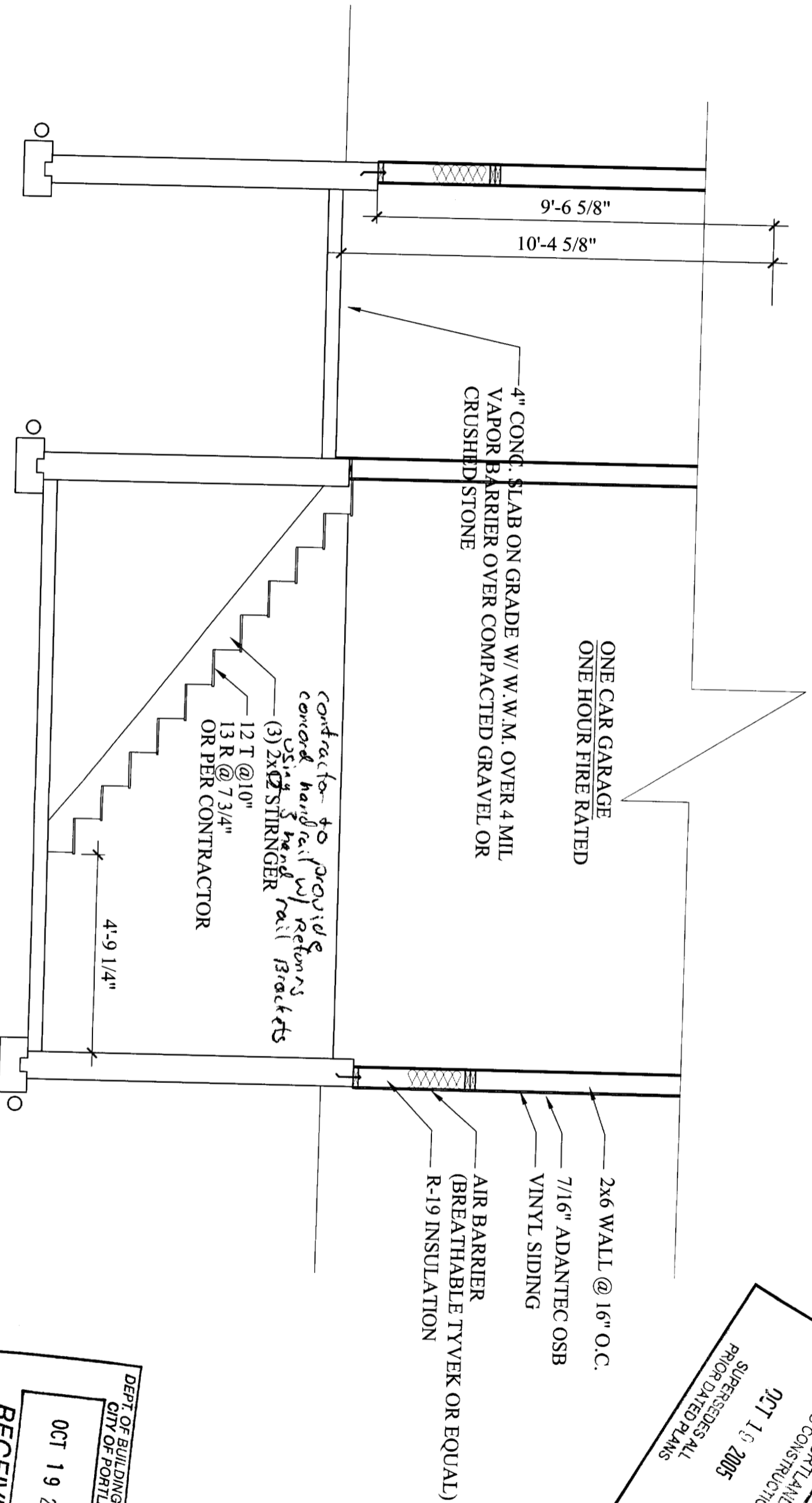
Builders Name and Address
CHAMBERLAIN CONSTRUCTION
 1022 PORTLAND ROAD
 SACO ME
 PHONE: 282-7377

FIRST FLOOR PLAN

THE DESIGNER OF CHAMBERLAIN CONSTRUCTION ARE NOT ARCHITECTS AND FOR PURPOSES THE DRAWINGS ARE PROVIDED FOR GENERAL INFORMATION PURPOSES ONLY AND HAVE NOT BEEN REVIEWED OR APPROVED BY A LICENSED ARCHITECT OR PROFESSIONAL ENGINEER. CHAMBERLAIN CONSTRUCTION INC. WILL NOT BE PROJECT IN ANY MANNER WITH THESE CONCEPTUAL DRAWINGS. ALL CONTRACTORS AND SUBCONTRACTORS ARE TO FOLLOW LOCAL CODES AND REGULATIONS IN ALL WORK. ALL HEIGHTS MAY VARY PER SITE CONDITIONS. ALL SITE CONDITIONS ARE TO BE FIELD CHECKED PER THE SITE CONDITIONS. NO WATER ARTICLES ARE MADE WITH REGARD TO THESE CONCEPTUAL DRAWINGS.

DATE: 10/18/05
 DRAWN BY: J.R.
 CHECKED BY: J.R.
 SCALE: 1/4" = 1'-0"

REVISED 10/18/05 J.R.



ONE CAR GARAGE
ONE HOUR FIRE RATED

4" CONG. SLAB ON GRADE W/ W.W.M. OVER 4 MIL
VAPOR BARRIER OVER COMPACTED GRAVEL OR
CRUSHED STONE

*contractor to provide
concord handrail w/ returns
using 3x2 stringers
(3) 2x12 STRINGER
OR PER CONTRACTOR*

2x6 WALL @ 16" O.C.
7/16" ADANTEC OSB
VINYL SIDING
AIR BARRIER
(BREATHABLE TYVEK OR EQUAL)
R-19 INSULATION

CITY OF PORTLAND, MAINE
APPROVED CONSTRUCTION PLANS
OCT 19 2005
SUPERSEDES ALL
PRIOR DATED PLANS

E
BUILDING SECTION
3/8"=1'-0" GARAGE

DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME
OCT 19 2005
RECEIVED

Product Data

VENTING SKYLIGHTS WITH FLAP

Model FSF	104	106	304	308	606
Outside frame (w x h)	in. 21 1/4 x 38 7/8	in. 21 1/4 x 46 3/4	in. 30 1/4 x 38 7/8	in. 30 1/4 x 55	in. 44 1/4 x 46 3/4
	mm. (548 x 978)	mm. (548 x 1178)	mm. (778 x 1398)	mm. (778 x 1398)	mm. (1138 x 1178)
Finished frame (w x h)	in. 20 1/4 x 37 3/4	in. 20 1/4 x 45 1/4	in. 29 1/4 x 37 3/4	in. 29 1/4 x 53 1/4	in. 43 1/4 x 45 1/4
	mm. (521 x 945)	mm. (521 x 1145)	mm. (751 x 945)	mm. (751 x 1345)	mm. (1111 x 1145)
Rough opening for EDL/EDW/EDM dimension	in. 21 1/2 x 39	in. 21 1/2 x 46 1/2	in. 30 1/2 x 39	in. 30 1/2 x 53 1/2	in. 44 1/2 x 46 1/2
	mm. (548 x 991)	mm. (548 x 1191)	mm. (775 x 991)	mm. (775 x 1411)	mm. (1138 x 1191)
Rough opening for ECX Flat Roof Curb	in. 21 1/4 x 46 1/4	in. 21 1/4 x 54 1/4	in. 30 1/4 x 46 1/4	in. 30 1/4 x 63 1/4	in. 44 1/4 x 54 1/4
	mm. (548 x 1172)	mm. (548 x 1383)	mm. (775 x 1172)	mm. (775 x 1615)	mm. (1138 x 1383)
Rough opening for EMX Roof Curb	in. 21 1/4 x 41 1/2	in. 21 1/4 x 49 1/2	in. 30 1/4 x 41 1/2	in. 30 1/4 x 58 1/2	in. 44 1/4 x 49 1/2
	mm. (548 x 1051)	mm. (548 x 1254)	mm. (775 x 1051)	mm. (775 x 1472)	mm. (1138 x 1254)
Daylight area	sq. ft. 4.1	sq. ft. 5.1	sq. ft. 6.16	sq. ft. 7.7	sq. ft. 11.64
Ventilation area (opening)	sq. in. 13.30	sq. in. 13.30	sq. in. 19.50	sq. in. 19.50	sq. in. 29.10
Net weight (with 1mm glass)	lbs. 44	lbs. 52	lbs. 77	lbs. 94	lbs. 144

TRUSS SERIES SKYLIGHTS

Model	FS	FS	VE/VS
	50	156	156
Outside frame (w x h)	in. 23 1/4 x 23 1/4	in. 23 1/4 x 46 3/4	in. 23 1/4 x 46 3/4
	mm. (592 x 592)	mm. (592 x 1178)	mm. (592 x 1178)
Finished frame (w x h)	in. 22 1/4 x 22 1/4	in. 22 1/4 x 45 1/4	in. 22 1/4 x 45 1/4
	mm. (572 x 572)	mm. (572 x 1151)	mm. (572 x 1151)
Rough opening for EDL/EDW/EDM	in. 22 1/4 x 22 1/4	in. 22 1/4 x 45 1/4	in. 22 1/4 x 45 1/4
	mm. (572 x 572)	mm. (572 x 1151)	mm. (572 x 1151)
Rough opening for ECX Flat Roof Curb	in. NOT AVAILABLE	in. NOT AVAILABLE	in. NOT AVAILABLE
Rough opening for EMX Roof Curb	in. NOT AVAILABLE	in. NOT AVAILABLE	in. NOT AVAILABLE
Daylight area (glass)	sq. ft. 19 1/4	sq. ft. 19 1/4	sq. ft. 19 1/4
Daylight area	sq. ft. 2.78	sq. ft. 5.86	sq. ft. 5.11
Ventilation area (opening)	sq. ft. N/A	sq. ft. N/A	sq. ft. 4.27
Net weight (with 1mm glass)	lbs. 29	lbs. 48	lbs. 63

ROOF WINDOWS

Model GPL	M08	S06
Outside frame (w x h)	in. 30 1/2 x 55	in. 44 1/4 x 46 3/4
	mm. (778 x 1397)	mm. (1137 x 1178)
Rough opening (w x h)	in. 31 1/4 x 53 1/4	in. 45 1/4 x 45 1/4
	mm. (794 x 1410)	mm. (1149 x 1191)
Daylight area (glass)	sq. ft. 7.4	sq. ft. 9.6
Daylight area	sq. ft. 11.34	sq. ft. 18.27
Ventilation area (opening)	sq. in. 30.00	sq. in. 47.81
Ventilation flap area	sq. in. 105	sq. in. 125
Net weight (with glass)	lbs. 105	lbs. 125

Model GDL CABRIO	P19
Outside frame (w x h)	in. 37 1/4 x 99 1/4
	mm. (941 x 2520)
Rough opening (w x h)	in. 39 1/4 x 101
	mm. (1000 x 2565)
Daylight area (upper)	sq. ft. 30 x 53 1/2
Daylight area (lower)	sq. ft. 11.1
Daylight area (lower)	in. 30 x 28 1/2
Daylight area (lower)	sq. ft. 6.0
Ventilation area (upper seat section only)	sq. ft. 22.5
Ventilation flap area	sq. in. 367
Net weight (with glass)	310 lbs.

ARCHITECTURAL SPECIFICATIONS
 Architectural specifications for VELUX products are available at www.VEluxusa.com/specifications.

Note: In Canada applications with Model GDL 4" frame-to-frame spacing is required for proper flashing combination with skylights.
www.VEluxusa.com

Testing Data

VENTING SKYLIGHTS

MODELS VSE AND VS TEST RESULTS

AIR INFILTRATION*	1.57 psf	75 Pa
	0.17 cm ³ /h	0.86 l/s/m ²
WATER RESISTANCE*	2.86 psf @ 5 US gal/H/h	140 Pa @ 3.4 l/m ² /min
	No Entry	No Entry
THERMAL PERFORMANCE <small>(Complete unit values.) All thermal performance SHGC, U-values for VELUX Skylights are NFRC certified, labeled and listed in the NFRC Product Directory. In accordance with NFRC procedures.</small>		
GLASS	Comfort (7/5) Tempered, Low-E, Argon Gas-filled	ComfortPlus (7/4) Laminated, Low-E, Argon Gas-filled
U-Factor (Factor)	0.38 (2.6)	0.40 (2.5)
SHGC	0.28	0.28
VI	0.43	0.42

MODELS GVE AND GVM TEST RESULTS

AIR INFILTRATION*	1.57 psf	75 Pa
	0.03 cm ³ /h	0.15 l/s/m ²
WATER RESISTANCE*	12.00 psf @ 5 US gal/H/h	575 Pa @ 3.4 l/m ² /min
	No Entry	No Entry
THERMAL PERFORMANCE <small>(Complete unit values.) All thermal performance SHGC, U-values for VELUX Skylights are NFRC certified, labeled and listed in the NFRC Product Directory. In accordance with NFRC procedures.</small>		
GLASS	Comfort (7/5) Tempered, Low-E, Argon Gas-filled	ComfortPlus (7/4) Laminated, Low-E, Argon Gas-filled
U-Factor (Factor)	0.39 (2.6)	0.41 (2.4)
SHGC	0.31	0.30
VI	0.47	0.46

FADING PROTECTION %	CLASSICAL UV PROTECTION %	TOTAL FADING PROTECTION %
Comfort (7/5)	87%	75%
ComfortPlus (7/4)	99.9%	83%

STRUCTURAL PERFORMANCE**	DOWNWARD LOAD	WIND UPLIFT
Laminated, Heated/Strengthened	1275 (jkl)	22.96 (jkl)
Tempered	108.182 (jkl)	22.96 (jkl)

FADING PROTECTION %	CLASSICAL UV PROTECTION %	TOTAL FADING PROTECTION %
Comfort (7/5)	87%	75%
ComfortPlus (7/4)	99.9%	83%

STRUCTURAL PERFORMANCE**	DOWNWARD LOAD	WIND UPLIFT
Laminated, Heated/Strengthened	520 (jkl)	105 (jkl)

* Tested in accordance with AAMA/WDMA 1600/57-2000, VOLUNTARY SPECIFICATION FOR SKYLIGHTS. Size 606 unit tested at a 15" roof pitch.
 ** Model VS tested in accordance with IGCC Evaluation Services, Inc. Acceptance Criteria for Sloped Glazing in Structures, Flat Covers and Pedestals Skylights. See National Evaluation Service Report No. NER 210 and IGCC's Report R-6073. Model VSE is WDMA Halmark certified. See National Report No. 426.



Dual-Pane Glass (Air filled)	Visible Light	SC ²	SHGC ³	RHG ⁴	TUV ⁵	Fading TUV ⁶	U-Factor ⁷ @center ⁸	%RH	IGST ⁹
Casement/Awning, Narrowing, French, Frenchwood, Frenchwood Sidelights/Transoms, 200 Series Tilt-Wash and Gliding Window	83%	0.91	0.79	189	63%	65%	0.49	38%	43°F
Casement/Awning Picture/Transom, 200 Series Fixed Units, PermaShield [®] Patio Door	82%	0.89	0.78	186	58%	61%	0.48	39%	44°F
Narrowline [®] Gliding Patio Door	82%	0.89	0.78	186	58%	61%	0.49	38%	43°F

High-Performance[™] Low-E Glass

(Dual-pane, Low-E, argon blend filled)	Visible Light	SC ²	SHGC ³	RHG ⁴	TUV ⁵	Fading TUV ⁶	U-Factor ⁷ @center ⁸	%RH	IGST ⁹
Casement/Awning, 400 Series Tilt-Wash, Narrowline [®] DH, Narrowline Transom	73%	0.51	0.44	106	16%	33%	0.28	57%	54°F
200 Series Tilt-Wash and Gliding Window	73%	0.50	0.44	104	16%	34%	0.28	57%	54°F
Woodwright [®] Double-Hung	73%	0.50	0.44	104	16%	34%	0.28	57%	54°F
Casement/Awning Picture/Transom, Double-Hung Picture, Woodwright Picture/Transom, Circle Top [®] , Oval, Circle, 200 Series Fixed Units, PermaShield [®] Patio Door, Roof Windows and Skylights	73%	0.50	0.43	103	16%	33%	0.28	57%	54°F
400 Series Gliding Windows	73%	0.51	0.44	105	17%	34%	0.28	57%	54°F
Frenchwood [®] Hinged, Outswinging and Gliding Doors, Frenchwood Sidelights/Transoms, Narrowline Gliding Door, Flexframe [®] Arch, Springline [®] Full-Circle Gothic, Elliptical, Octagon, Full-Round Quarter Round	73%	0.50	0.43	104	16%	33%	0.28	57%	54°F
71%	0.48	0.42	100	14%	31%	0.28	57%	54°F	

High-Performance Sun™ Low-E Glass

(Dual-pane, tinted Low-E, argon blend filled)	Visible Light	SC ²	SHGC ³	RHG ⁴	TUV ⁵	Fading TUV ⁶	U-Factor ⁷ @center ⁸	%RH	IGST ⁹
Casement/Awning, 400 Series Tilt-Wash, Narrowline [®] DH, Narrowline Transom	40%	0.37	0.32	77	16%	24%	0.30	55%	53°F
200 Series Tilt-Wash and Gliding Window	40%	0.36	0.31	76	15%	23%	0.30	55%	53°F
Woodwright [®] Double-Hung	40%	0.37	0.32	77	16%	24%	0.30	55%	53°F
Casement/Awning Picture/Transom, Double-Hung Picture, Woodwright Picture/Transom, Circle Top [®] , Oval, Circle, 200 Series Fixed Units, PermaShield [®] Patio Door, Roof Windows and Skylights	40%	0.36	0.31	75	15%	23%	0.31	55%	53°F
400 Series Gliding Windows	40%	0.36	0.31	77	16%	24%	0.30	55%	53°F
Frenchwood [®] Hinged, Outswinging and Gliding Doors, Frenchwood Sidelights/Transoms, Narrowline Gliding Door, Flexframe [®] Arch, Springline [®] Full-Circle Gothic, Elliptical, Octagon, Full-Round Quarter Round	40%	0.36	0.31	76	15%	23%	0.30	55%	53°F
39%	0.34	0.30	73	13%	21%	0.30	55%	53°F	

This data is accurate as of August 2, 2004. Due to ongoing product changes, updated test results, or new industry standards, this data may change over time.

Canadian Product Performance Ratings

Units Tested	Air Tightness	Water Tightness	Windload Resistance and blow-out	Resistance to forced entry
CW116	A-3	B-7	C-4	Pass
PG050	Fixed	B-7	C-4	Not Applicable
AP021V	A-3	B-4	C-2	Pass
A3535	A-3	B-3	C-3	Pass
TW3862	A-2	B-3	C-2	Pass
NL3862	A-3	B-3	C-3	Pass
DHP5662	Fixed	B-3	C-3	Not Applicable
G65	A-3	B-3	C-3	Pass
CH/OH 3048	Fixed	B-7	C-5	Not Applicable
ET8	Fixed	B-7	C-5	Not Applicable

Tested to CAN/CSA A440-M90 The mullion was tested and the deflection was within the maximum allowable of L/175 at positive and negative loads of 2600 Pa.

Units Tested	Air Tightness	Water Tightness	Windload Resistance and blow-out	Resistance to forced entry
FX-12050	Fixed	B-7	C-5	Not Applicable
AP-608	Fixed	B-7	C-5	Not Applicable
SP-202	Fixed	B-7	C-5	Not Applicable
FWH6630VP	A-3	B-2	C-3	Pass
EW6630VP	A-3	B-2	C-3	Pass
EW0630VP	A-3	B-4	C-3	Not Applicable
EW6630VP	A-3	B-4	C-3	Not Applicable
EW6630VP	A-3	B-3	C-1	Pass
EW6630VP	A-3	B-3	C-1	Pass
EW6630VP	A-3	B-2	C-1	Pass
EW6630VP	A-3	B-2	C-1	Pass

*High-Performance[™] (HP Low-E) and High-Performance Sun[™] (HP Sun) are Andersen trademarks for Low-E[®] glass. Based on NFRC testing/simulation conditions using Windows 5.2 and NFRC validated spectral data. °F outside temperature, 70°F inside temperature and a 15 mph wind.

1 Visible Transmittance (VT) measures how much light comes through the glass. The higher the value, from 0 to 1, the more daylight the glass lets in. Visible Transmittance is measured over the 380 to 780 nanometer portion of the solar spectrum.

2 Shading Coefficient defines the amount of heat gain through the glass compared to a single lite of clear 1/8" (3 MM) glass.

3 Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass both directly transmitted and absorbed and subsequently re-emitted inward. The lower the value, the less heat is transmitted through the glass.

4 Relative Heat Gain is the amount of heat gain through a glazing incorporating U-Factor and Solar Heat Gain Coefficient.

5 Transmission Ultra Violet Energy (TUV). The transmission of short wave energy in the 300-380 nanometer portion of the solar spectrum. The energy can cause fabric fading.

6 Transmission Damage Function (TDM). The transmission of short wave energy in the 300-600 nanometer portion of the solar spectrum. The value includes both the UV and visible light energy that can cause fabric fading. This rating has also been referred to as the Kocchmann Damage Function. This rating better predicts fading potential than UV transmission alone. The lower the Damage Function rating, the less transmission of short wave energy through the glass that can potentially cause fabric fading. Fabric Type is also a key component of fading potential.

7 U-Factor is a measure of the heat loss through the total unit in BTU/hr/deg.F sq. ft. 8 Percent relative humidity before condensation occurs at the center of glass, taken using center of glass temperature.

9 Inside glass surface temperatures are taken at the center of glass.

Contact your Andersen supplier for center of glass performance data on windows with laminated glass.

Andersen[®] NFRC Certified Total Unit Performance

Andersen windows and patio doors meet or exceed the following standards: WDMA-1.2, WDMA-1.3, WDMA-1.4, WDMA-1.5, WDMA-1.6, WDMA-1.7, WDMA-1.8, WDMA-1.9, WDMA-2.0, WDMA-2.1, WDMA-2.2, WDMA-2.3, WDMA-2.4, WDMA-2.5, WDMA-2.6, WDMA-2.7, WDMA-2.8, WDMA-2.9, WDMA-3.0, WDMA-3.1, WDMA-3.2, WDMA-3.3, WDMA-3.4, WDMA-3.5, WDMA-3.6, WDMA-3.7, WDMA-3.8, WDMA-3.9, WDMA-4.0, WDMA-4.1, WDMA-4.2, WDMA-4.3, WDMA-4.4, WDMA-4.5, WDMA-4.6, WDMA-4.7, WDMA-4.8, WDMA-4.9, WDMA-5.0, WDMA-5.1, WDMA-5.2, WDMA-5.3, WDMA-5.4, WDMA-5.5, WDMA-5.6, WDMA-5.7, WDMA-5.8, WDMA-5.9, WDMA-6.0, WDMA-6.1, WDMA-6.2, WDMA-6.3, WDMA-6.4, WDMA-6.5, WDMA-6.6, WDMA-6.7, WDMA-6.8, WDMA-6.9, WDMA-7.0, WDMA-7.1, WDMA-7.2, WDMA-7.3, WDMA-7.4, WDMA-7.5, WDMA-7.6, WDMA-7.7, WDMA-7.8, WDMA-7.9, WDMA-8.0, WDMA-8.1, WDMA-8.2, WDMA-8.3, WDMA-8.4, WDMA-8.5, WDMA-8.6, WDMA-8.7, WDMA-8.8, WDMA-8.9, WDMA-9.0, WDMA-9.1, WDMA-9.2, WDMA-9.3, WDMA-9.4, WDMA-9.5, WDMA-9.6, WDMA-9.7, WDMA-9.8, WDMA-9.9, WDMA-10.0, WDMA-10.1, WDMA-10.2, WDMA-10.3, 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WDMA-19.5, WDMA-19.6, WDMA-19.7, WDMA-19.8, WDMA-19.9, WDMA-20.0, WDMA-20.1, WDMA-20.2, WDMA-20.3, WDMA-20.4, WDMA-20.5, WDMA-20.6, WDMA-20.7, WDMA-20.8, WDMA-20.9, WDMA-21.0, WDMA-21.1, WDMA-21.2, WDMA-21.3, WDMA-21.4, WDMA-21.5, WDMA-21.6, WDMA-21.7, WDMA-21.8, WDMA-21.9, WDMA-22.0, WDMA-22.1, WDMA-22.2, WDMA-22.3, WDMA-22.4, WDMA-22.5, WDMA-22.6, WDMA-22.7, WDMA-22.8, WDMA-22.9, WDMA-23.0, WDMA-23.1, WDMA-23.2, WDMA-23.3, WDMA-23.4, WDMA-23.5, WDMA-23.6, WDMA-23.7, WDMA-23.8, WDMA-23.9, WDMA-24.0, WDMA-24.1, WDMA-24.2, WDMA-24.3, WDMA-24.4, WDMA-24.5, WDMA-24.6, WDMA-24.7, WDMA-24.8, WDMA-24.9, WDMA-25.0, WDMA-25.1, WDMA-25.2, WDMA-25.3, WDMA-25.4, WDMA-25.5, WDMA-25.6, WDMA-25.7, WDMA-25.8, WDMA-25.9, WDMA-26.0, WDMA-26.1, WDMA-26.2, WDMA-26.3, WDMA-26.4, WDMA-26.5, WDMA-26.6, WDMA-26.7, WDMA-26.8, WDMA-26.9, WDMA-27.0, WDMA-27.1, WDMA-27.2, WDMA-27.3, WDMA-27.4, WDMA-27.5, WDMA-27.6, WDMA-27.7, WDMA-27.8, WDMA-27.9, WDMA-28.0, WDMA-28.1, WDMA-28.2, WDMA-28.3, WDMA-28.4, WDMA-28.5, 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