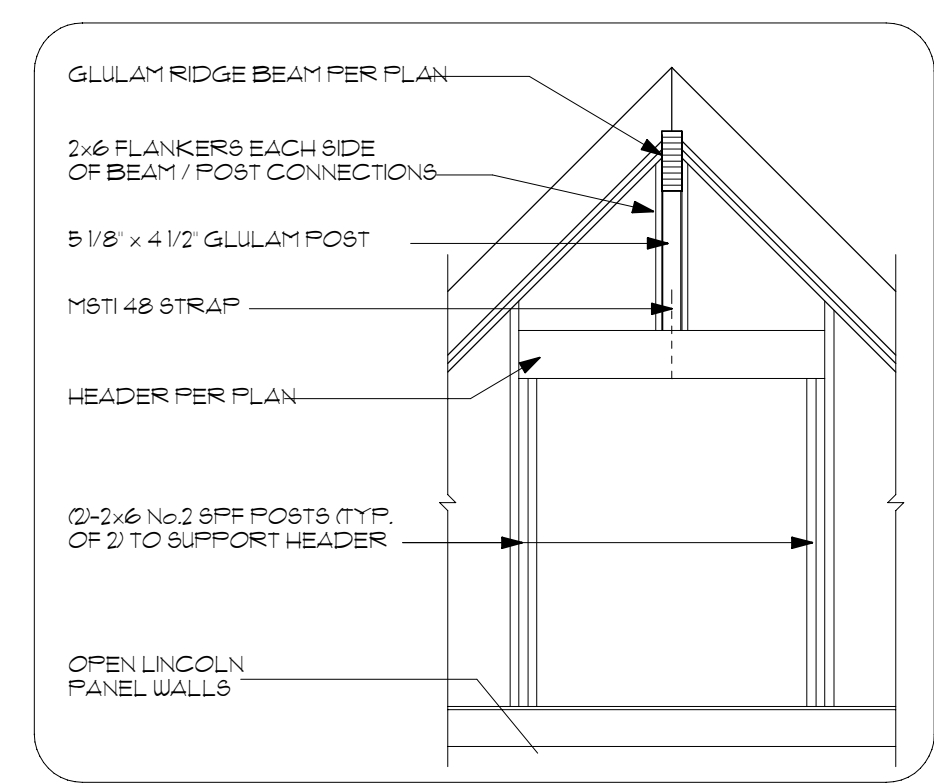


2 CORNER BOARD ASSEMBLY DETAIL
3 SCALE: N.T.S.



1 GABLE WALL STRUCTURAL DETAIL
3 VIEW "A"

NOTE:
 A CERTIFICATE OF CONFORMANCE IS REQUIRED PRIOR TO FRAMING INSPECTION FOR ALL GLUE LAMINATED WOOD MEMBERS

POST DESIGNATION KEY		
△	SIZE	SPECIES
A	(3) 2x4	#2 SPF
B	(3) 2x6	#2 SPF
C	4x6	EASTERN WHITE PINE TPI WALL LOG @1
D	6x6	EASTERN WHITE PINE TPI WALL LOG @1
E	3-1/8 x 6	GLULAM 24F-V4 DF
F	5-1/8 x 4 1/2	GLULAM 24F-V4 DF
G	5-1/8 x 6	GLULAM 24F-V4 DF

HOLD DOWN SCHEDULE						
SYM.	SIMPSON MODEL #	MINIMUM POST	DIST. FROM CENTER OF CONC ANCHOR TO FACE OF POST	POST BOLTS OR SCREWS	MINIMUM STEM WALL THICKNESS	NOTES
■	M8T36	2x	N.A.	(3/8) - 10ds	N.A.	
■	M8T48	2x	N.A.	(4/8) - 10ds	N.A.	
■	5THD8RJ	N.A.	N.A.	(2) - 16d SINKERS	8"	
■	5THD10RJ	N.A.	N.A.	(2) - 16d SINKERS	8"	
■	5THD14RJ	N.A.	N.A.	(2) - 16d SINKERS	8"	
■	L8THD8RJ	N.A.	N.A.	(2) - 16d SINKERS	8"	
■	HP4HD22	(2) - 2x	N.A.	(2) - 16d	8"	

● DENOTES 3/4" DIA THROUGH BOLT, USE 3/4" DIA ALL THREAD ROD WITH SIMP. S8TB28. RUN 3/4" THROUGH BOLT CONTINUOUS TO TOP LOG W/ 3" SQUARE BY 3/16" THICK STEEL PLATE WITH DOUBLE NUTS - TYPICAL. (SEE NOTE 9)

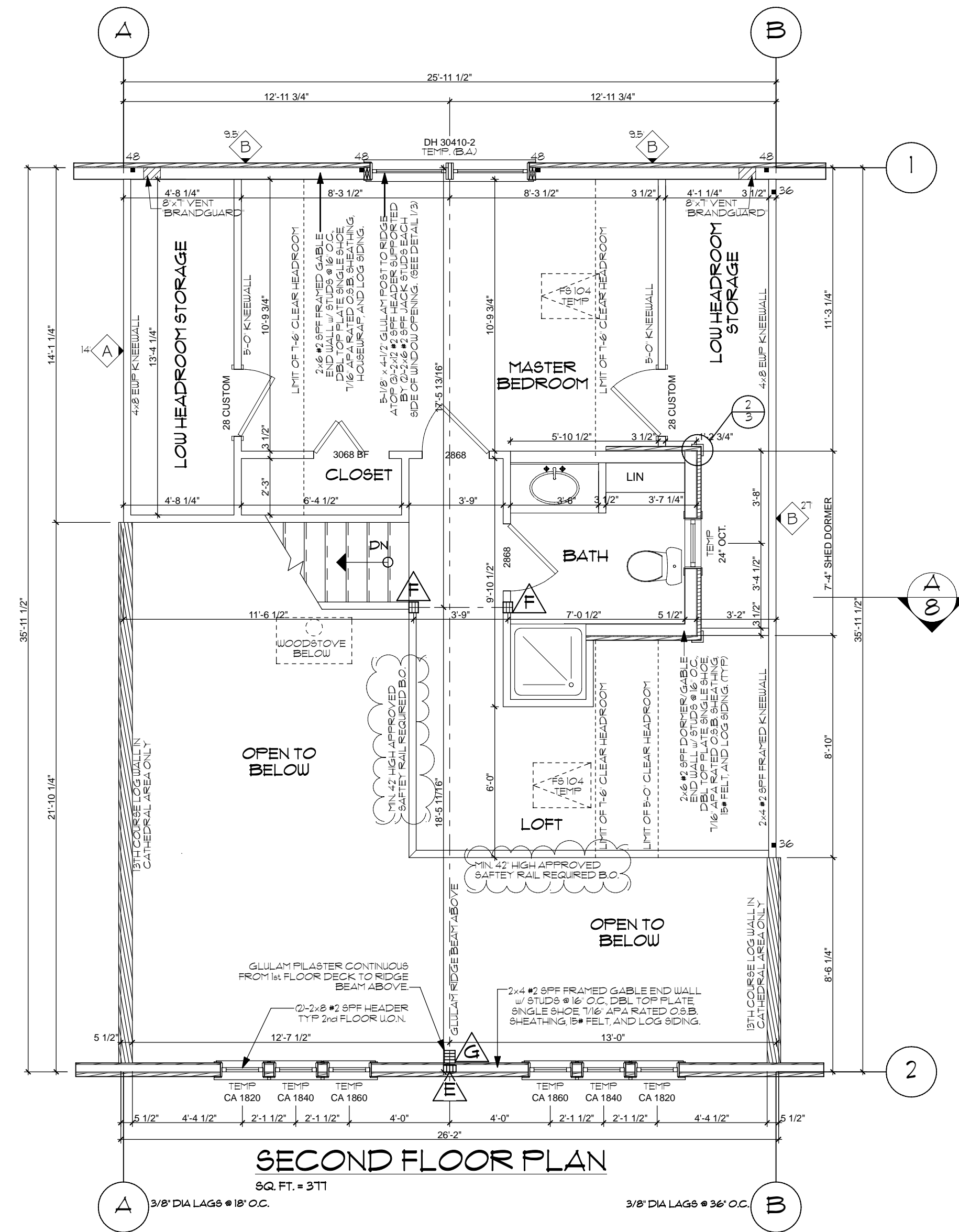
NOTES:
 1. EDGE NAIL SHEAR WALL SHEATHING TO POSTS FASTENED TO HOLD DOWNS.
 2. THE MINIMUM CONCRETE STRENGTH AT 28 DAYS TO BE 2800 PSI.
 3. ALL HOLD DOWNS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL OF THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
 4. HOLD DOWN HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE CORP. OR EQUAL.
 5. PROVIDE 3" MINIMUM COVER FOR ALL CONCRETE ANCHORS.
 6. USE SIMP. HP4HD22 OR HOLD DOWNS IN LIEU OF HP4HD22 HOLD DOWNS AT ALL TWO HOUR FOUNDATION SYSTEMS.
 7. INSTALL STANDARD NUTS, WASHERS AND COUPLERS AS REQUIRED.
 8. USE SIMP. S8TBL. # ALL 3" BOLL LOCATIONS.

SHEAR WALL SCHEDULE	
A	1/16" APA RATED O.S.B. SHEATHING; 8d @ 6" / 12" O.C.; USE 2-2x STUDS FOR EDGE NAILING (4x FOR CORNER INSTALLATION) AND SINGLE 2x FOR BILL NAILING U.O.N. USE LTP5 @ 20" O.C. BOTTOM PLATE TO FLOOR / RIM JOIST / OR BLOCKING AND 5DS 1/4x6 @ 15" O.C. USE LTP4 @ 20" O.C. TOP PLATE TO RAFTER / FLOOR OR RIM OR BLOCKING
B	1/16" APA RATED O.S.B. SHEATHING; 8d @ 4" / 12" O.C.; USE 3x STUDS FOR EDGE & BILL NAILING (4x FOR CORNER INSTALLATION) UNLESS OTHERWISE NOTED. USE LTP5 @ 20" O.C. BOTTOM PLATE TO FLOOR / RIM JOIST / OR BLOCKING AND 5DS 1/4x6 @ 15" O.C. USE LTP4 @ 20" O.C. TOP PLATE TO RAFTER / FLOOR OR RIM OR BLOCKING

VENT CALCS.		
STORAGE SPACE AREA OF HOUSE:		
54.81 SQ. FT. ± 150 = .37 SQ. FT.	63.04 SQ. FT. ± 150 = .42 SQ. FT.	
.37 SQ. FT. x 144 = 53.28 SQ. IN. (REQ.)	.42 SQ. FT. x 144 = 60.48 SQ. IN. (REQ.)	
VENTS = 8" x 7" = 56 SQ. IN. EACH	VENTS = 8" x 8" = 64 SQ. IN. EACH	
1 VENTS x 56 = 56 SQ. IN.	1 VENTS x 64 = 64 SQ. IN.	
TOTAL SHOWN = 56 SQ. IN.	TOTAL SHOWN = 64 SQ. IN.	

— EAVE VENT TYPICAL

1. ALL VENTS SHALL RESIST THE INTRUSION OF FLAMES AND EMBERS OR SHALL BE PROTECTED BY LOUVERS AND 1/4" NON-COMBUSTIBLE CORROSION-RESISTANT FIBER.
 2. VENTS SHALL NOT BE INSTALLED IN BAYES, BAYS, COFFERS, OR CORNICES. GABLE-END VENTS WILL BE ALLOWED IF THE VENTS ARE LOCATED A MINIMUM OF 12" BELOW THE LOWEST EAVE/RAKE PROJECTION.



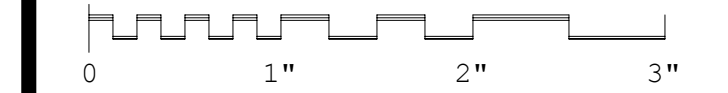
NOTE:
 1) SEE COVER SHEET FOR GENERAL AND STRUCTURAL INFORMATION.
 2) CONTRACTOR IS TO VERIFY ALL DIMENSIONS IN FIELD.
 3) CONTRACTOR / OWNER IS TO VERIFY SIZE, LOCATION, AND INSTALLATION SPACES OF ALL WATER HEATERS AND MECHANICAL EQUIPMENT.
 4) PROVIDE SOFFITS, PLUMBING WALLS, AND CHASING FOR MECHANICAL AND PLUMBING AS REQUIRED. - (B.O.)
 5) ATTACH ALL STUD WALLS TO LOG WALLS W/ (4) - 1/2" DIA. LAG BOLTS W/ WASHERS IN 1/2" DIA. x 1" LONG SLOTS - IN 4x D.F. STUD. - (B.O.)
 6) ALL DIMENSIONS ARE TO FACE OF FRAMING.
 7) ALL STUD WALLS ARE 3-1/2" UNLESS OTHERWISE NOTED.
 8) PROVIDE FRESH AIR VENTILLATION TO MEET 1991 VENTILLATION AND INDOOR AIR QUALITY CODE (IAQ) VIA MECHANICAL VENTILLATION SYSTEM. (SECTION 309).

NOTE:
 FINISHED SQ. FOOTAGE CALCULATIONS FOR THIS BUILDING WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FROM THE FINISHED SQ. FOOTAGE AS BUILT. CALCULATIONS WERE MADE IN ACCORDANCE WITH ANSI Z765-1966.

NOTE:
 THE BLUEPRINTS SUPPLIED BY LINCOLN LOGS LTD. ARE COMPILED FOR CONSTRUCTION PURPOSES AND DEPICT MATERIALS AS REQUIRED BY GENERALLY ACCEPTED DESIGN AND ENGINEERING STANDARDS. THE MATERIALS SUPPLIED BY LINCOLN LOGS LTD. ARE GOVERNED BY YOUR SALES AGREEMENT AND APPROPRIATE ADDENDUMS. ALL OTHER MATERIALS ARE PRESUMED TO BE SUPPLIED BY OWNER. EVEN IF THEY ARE NOT SO SPECIFIED ON THE BLUEPRINTS.

NOTE:
 FIREPLACES WITH GAS APPLIANCES ARE REQUIRED TO HAVE THE FLUE DAMPER PERMANENTLY FIXED IN THE OPEN POSITION AND FIREPLACES WITH LPG APPLIANCES ARE TO HAVE NO "PIT" OR "BUMP" CONFIGURATIONS. (U.M.C. SEC. 912) AND SEC. 304.5)

No.	REVISIONS	DATE
1	PLAN CHECK REVISIONS	2/11/10
2	PLAN CHECK REVISIONS (GWD)	4/8/08



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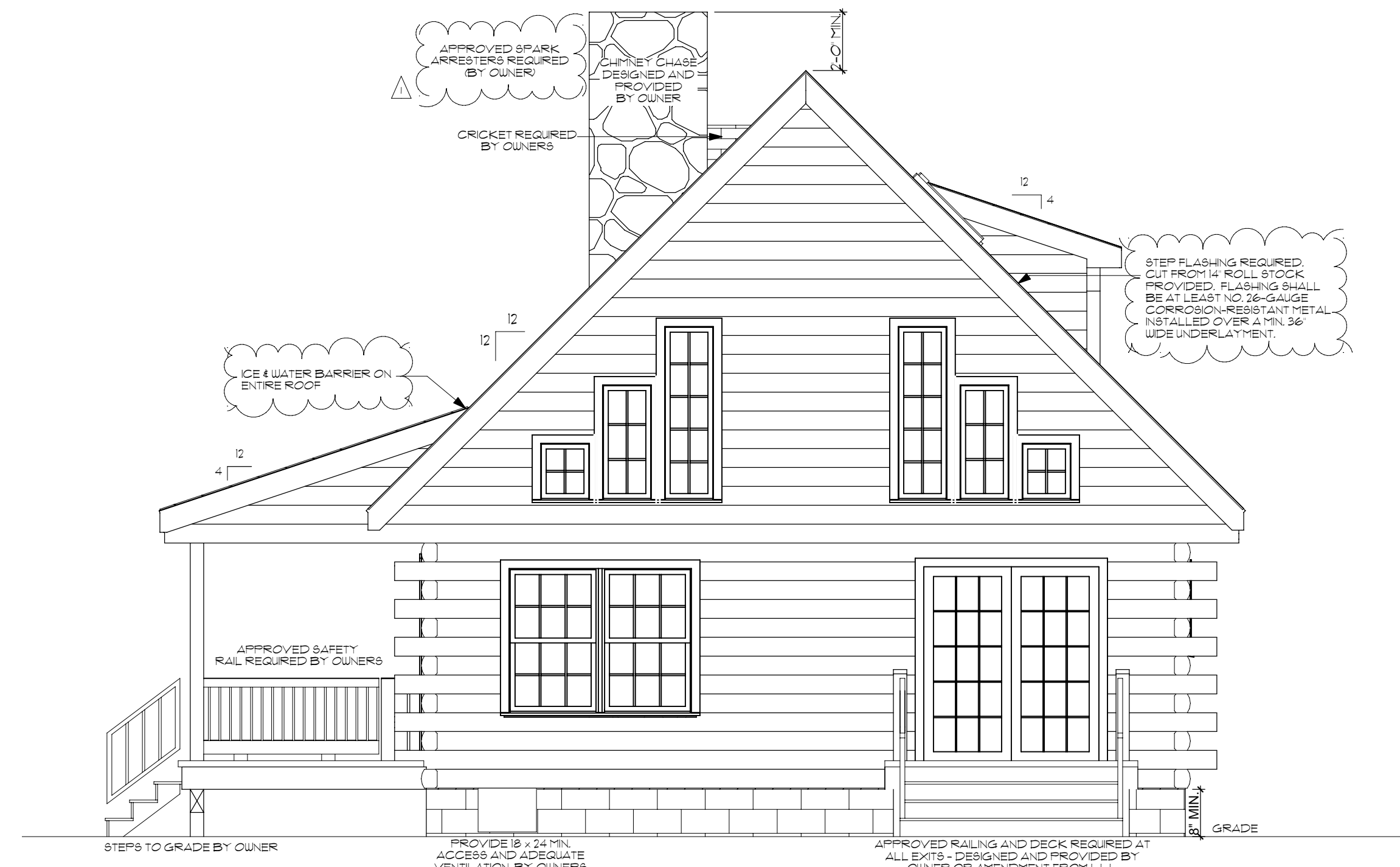
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Drafter	G. DIEHL, A. ZIEGLER (POST ENG.)
Checked	TAS, CJO
Scale	1/4" = 1'-0"
Date	10/11/06
Order No.	0619089-628
Cad File	SCHAFFER.PLN

SCHAFFER
 34476 PUEBLO
 JULIAN, CA 92036
 SAN DIEGO COUNTY

SHEET TITLE
2nd FLOOR PLAN

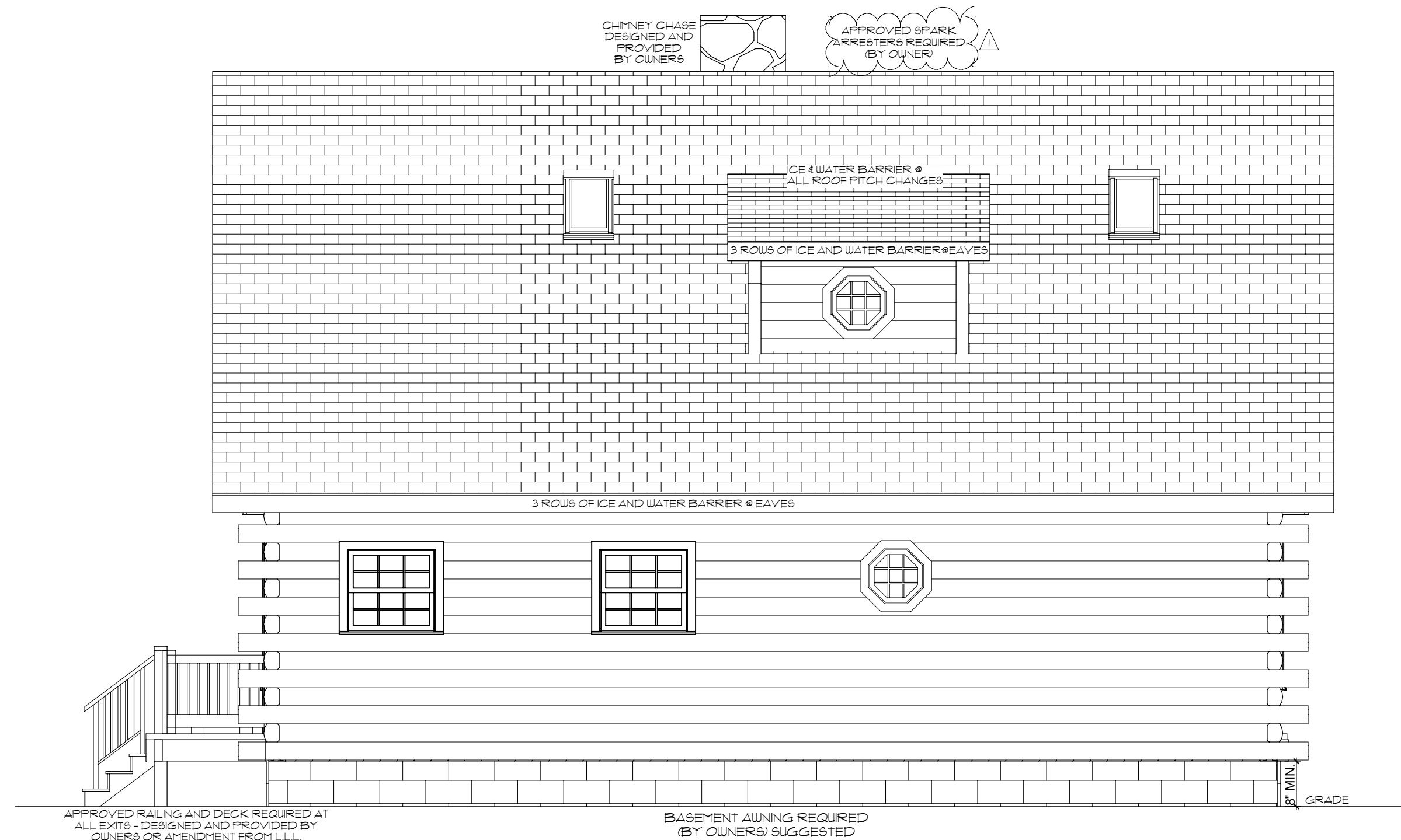


FRONT ELEVATION

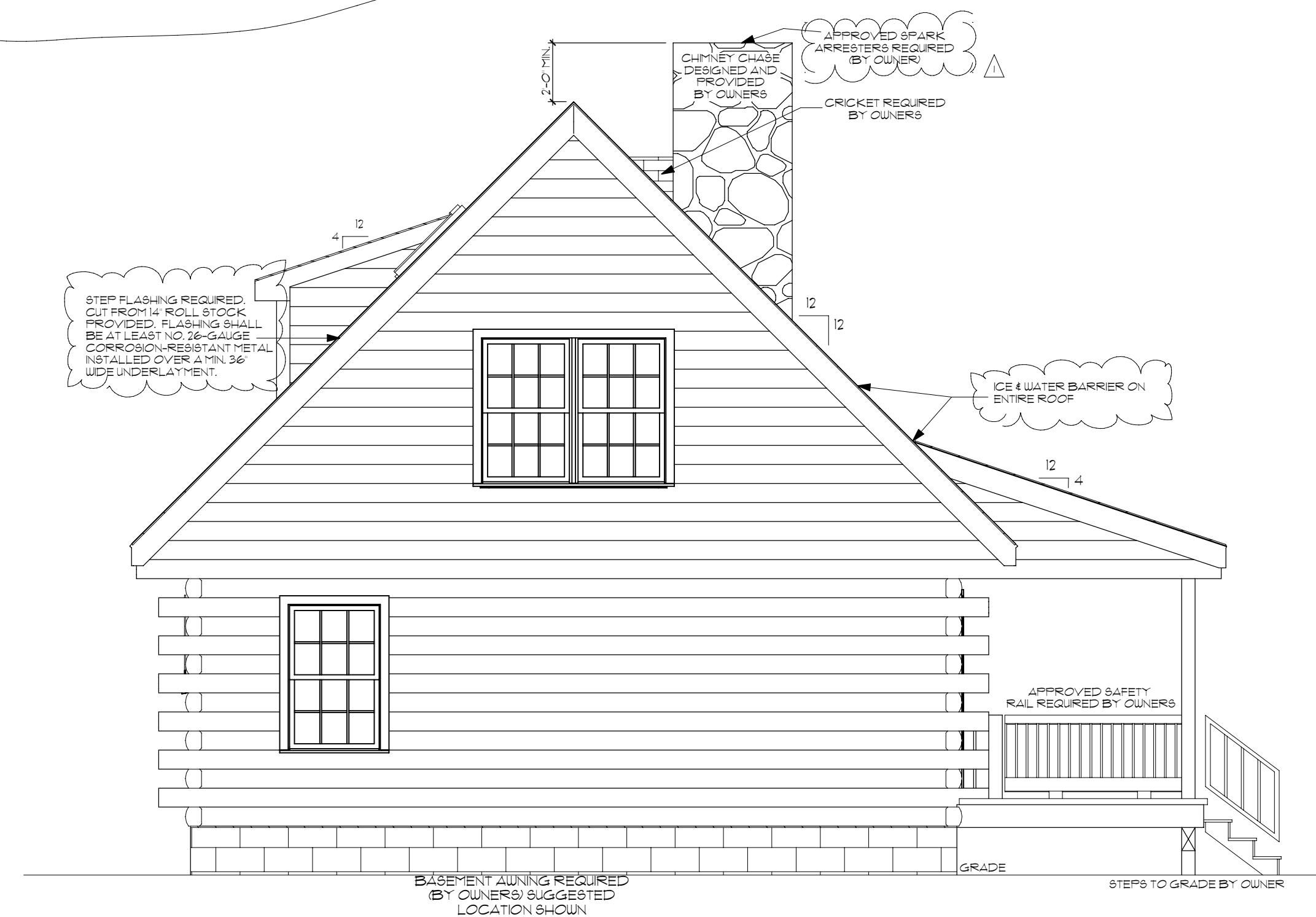


RIGHT ELEVATION

GUTTERS AND DOWNSPOUTS SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL, AND DESIGNED TO REDUCE ACCUMULATION OF LEAF LITTER AND DEBRIS. THE FIRST FIVE FEET OF FENCES AND OTHER ITEMS ATTACHED TO A STRUCTURE SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL OR MEET THE SAME FIRE-RESISTIVE STANDARDS AS EXTERIOR WALLS OF STRUCTURE.



REAR ELEVATION



LEFT ELEVATION

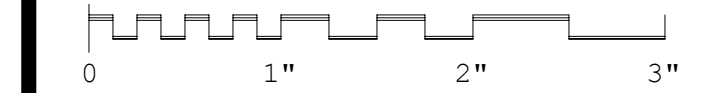
- NOTE:**
- 1) SEE COVER SHEET FOR GENERAL AND STRUCTURAL INFORMATION.
 - 2) CONTRACTOR IS TO VERIFY ALL DIMENSIONS IN FIELD.
 - 3) CONTRACTOR / OWNER IS TO VERIFY SIZE, LOCATION, AND INSTALLATION SPACS. OF ALL WATER HEATERS AND MECHANICAL EQUIPMENT.
 - 4) PROVIDE SOFFITS, PLUMBING WALLS, AND CHASING FOR MECHANICAL AND PLUMBING AS REQUIRED. - (B.O.)
 - 5) ATTACH ALL STUD WALLS TO LOG WALLS W/ (4) - 1/2" DIA. LAG BOLTS W/ WASHERS IN 1/2" DIA. x 1" LONG SLOTS- IN 4x D.F. STUD. - (B.O.)
 - 6) ALL DIMENSIONS ARE TO FACE OF FRAMING.
- 1) ALL STUD WALLS ARE 3-1/2" UNLESS OTHERWISE NOTED.
- 2) PROVIDE FRESH AIR VENTILLATION TO MEET 1991 VENTILLATION AND INDOOR AIR QUALITY CODE (IAQ) VIA MECHANICAL VENTILLATION SYSTEM. (SECTION 30B).

NOTE:
THE BLUEPRINTS SUPPLIED BY LINCOLN LOGS LTD. ARE COMPILED FOR CONSTRUCTION PURPOSES AND DESPOT MATERIALS AS REQUIRED BY GENERALLY ACCEPTED DESIGN AND ENGINEERING STANDARDS, THE MATERIALS SUPPLIED BY LINCOLN LOGS LTD. ARE GOVERNED BY YOUR SALES AGREEMENT AND APPROPRIATE ADDENDUMS. ALL OTHER MATERIALS ARE PRESUMED TO BE SUPPLIED BY OWNER. EVEN IF THEY ARE NOT SO SPECIFIED ON THE BLUEPRINTS.

NOTE:
FINISHED SQ. FOOTAGE CALCULATIONS FOR THIS BUILDING WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FROM THE FINISHED SQ. FOOTAGE AS BUILT. CALCULATIONS WERE MADE IN ACCORDANCE WITH ANSI 2765-1966.

NOTE:
WATER HEATERS REQUIRE A MINIMUM OF 2 STRAPS TO RESIST HORIZONTAL DISPLACEMENT. MINIMUM OF 3/4" x 24 GAUGE STRAPS WITH 1/4" x 3" LAG BOLTS ATTACHED DIRECTLY TO THE FRAMING (U.F.C. SEC 510.5)

PLAN CHECK REVISIONS	2/11/10
PLAN CHECK REVISIONS (GWD)	4/8/08
No. REVISIONS	DATE



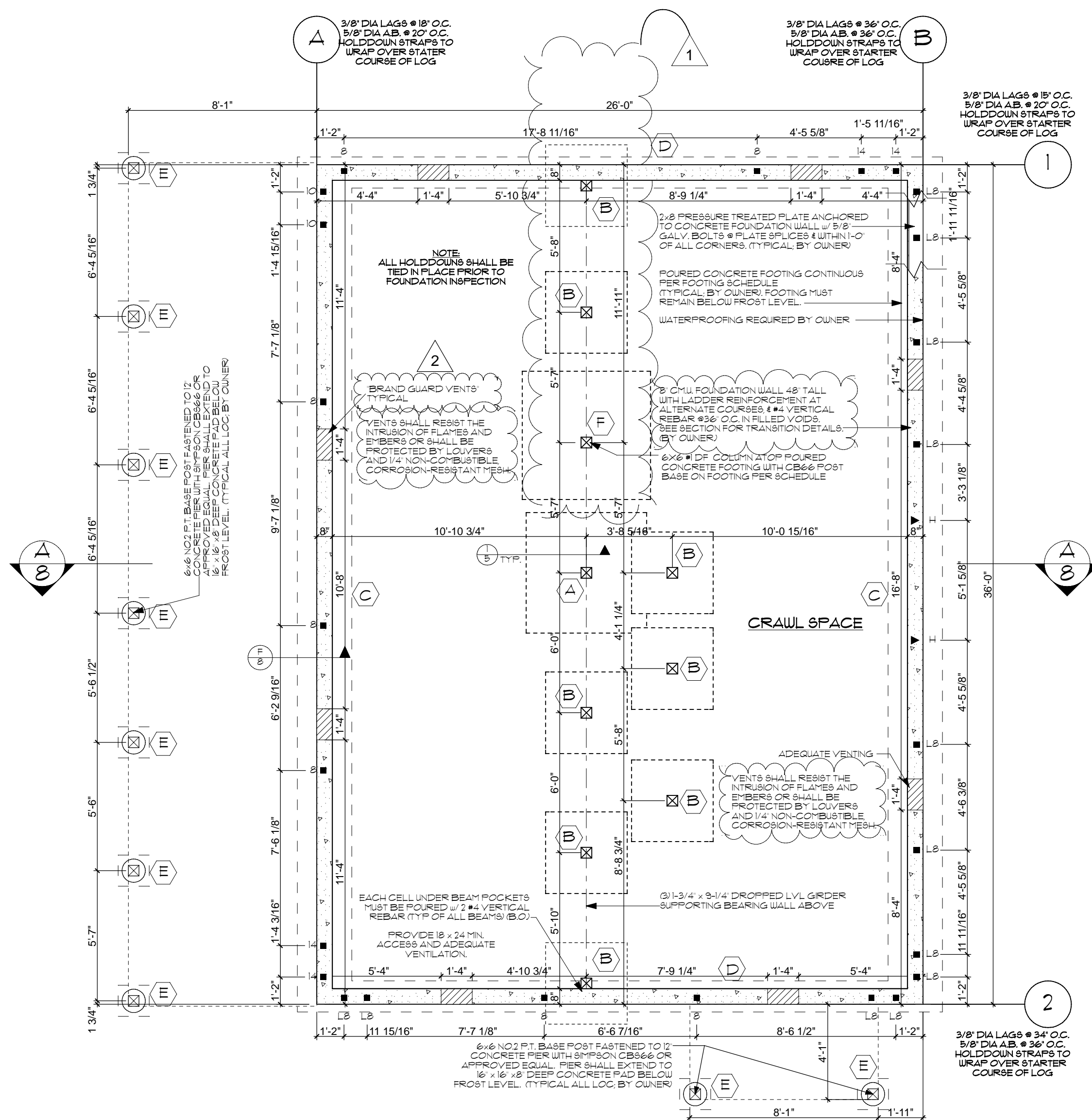
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Status	FINAL DRAWING
Drafter	G. DIEHL, A. ZIEGLER (POST ENG)
Checked	TAS, CJO
Scale	1/4" = 1'-0"
Date	10/11/06
Order No.	0619089-628
Cad File	SCHAFFER.PLN

SCHAFFER
34476 PUEBLO
JULIAN, CA 92036
SAN DIEGO COUNTY

SHEET TITLE
ELEVATION VIEW



FOUNDATION PLAN
80 FT. x 946.36

FOOTING SCHEDULE

SYM.	SQUARE FOOTING		REINF. EACH WAY	ALLOW. COL. LOAD (LBS.)	NOTES
	WIDTH	DEPTH			
A	62' x 62'	12" 12"	#5 @ 6" O.C.		2, 3
B	42' x 42'	12" 12"	#5 @ 6" O.C.		2, 3
C	28' CONT.	12" 12"	2-#4 CONT.		2, 3
D	16' CONT.	12" 12"	2-#4 CONT.		2, 3
E	18' x 18'	12" 12"	#5 @ 6" O.C.		2, 3
F	66' x 66'	12" 12"	#5 @ 6" O.C.		2, 3

(1) DESIGN SOIL PRESSURE = 1500. psf
SEE SOILS REPORT WRITTEN BY:
DATED:
(2) MINIMUM CONCRETE STRENGTH AT 28 DAYS TO BE 2500 psi.
(3) REINF. STEEL TO CONFORM TO A.S.T.M. A615-40.

FOUNDATION VENT CALCS.

CRAWL SPACE AREA OF HOUSE: 947 SQ. FT.

947 SQ. FT. ÷ 150 = 6.31 SQ. FT.
6.31 SQ. FT. x 144 = 909.12 SQ. IN. (REQ.)
VENTS = 8" x 16" = 128 SQ. IN. EACH
8 VENTS x 128 = 1024 SQ. IN.
TOTAL SHOWN = 1024 SQ. IN.

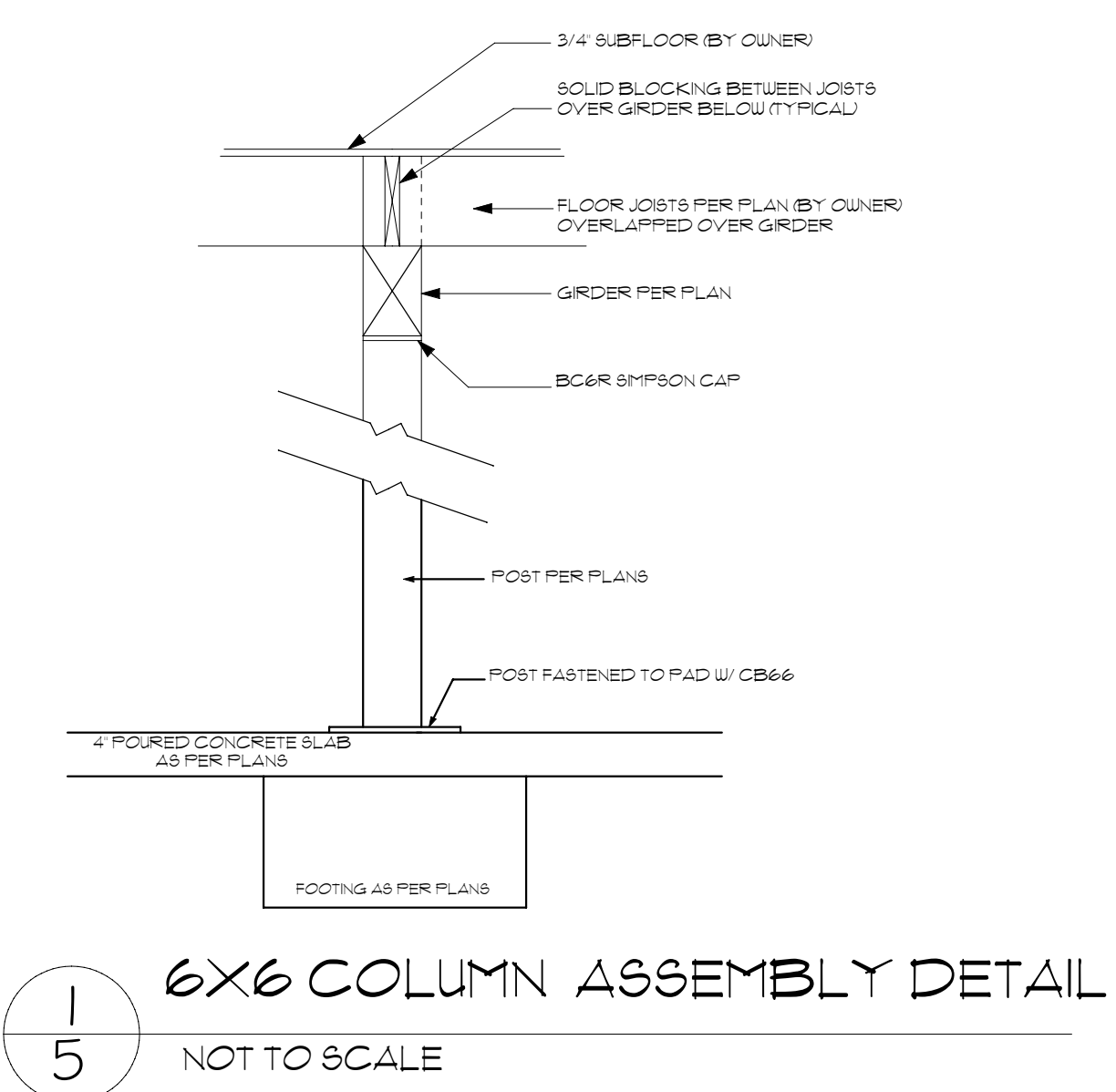
FOUNDATION VENT TYPICAL 3

HOLD DOWN SCHEDULE

SYM.	SIMPSON MODEL #	MINIMUM POST	DIST. FROM CENTER OF CONC ANCHOR TO FACE OF POST	POST BOLTS OR SCREWS	MINIMUM STEM WALL THICKNESS	NOTES
36	M8T136	2x	N.A.	(36) - 10ds	N.A.	
48	M8T148	2x	N.A.	(48) - 10ds	N.A.	
8	STHD8RJ	N.A.	N.A.	(24) - 16d	8"	
10	STHD10RJ	N.A.	N.A.	(28) - 16d	8"	
14	STHD14RJ	N.A.	N.A.	(32) - 16d	8"	
LB	L8THD8RJ	N.A.	N.A.	(24) - 16d	8"	
H	HPAHD22	2-2x	N.A.	(23) - 16d	8"	

● DENOTES 3/4" DIA. THROUGH BOLT. USE 3/4" DIA. ALL THREAD ROD WITH SIMP. 65TB28. RUN 3/4" THROUGH BOLT CONTINUOUS TO TOP LOG W/ 3" SQUARE BY 3/16" THICK STEEL PLATE WITH DOUBLE NUTS - TYPICAL. (SEE NOTE 2)

- NOTES:**
- EDGE NAIL SHEAR WALL SHEATHING TO POSTS FASTENED TO HOLD DOWNS.
 - THE MINIMUM CONCRETE STRENGTH AT 28 DAYS TO BE 2500 PSI.
 - ALL HOLD-DOWNS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL OF THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
 - HOLD-DOWN HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE CORP. OR EQUAL.
 - PROVIDE 3" MINIMUM COVER FOR ALL CONCRETE ANCHORS.
 - USE SIMP. HPAHD22-2P HOLD-DOWNS IN LIEU OF HPAHD22 HOLD-DOWNS AT ALL TWO FOUR FOUNDATION SYSTEMS.
 - INSTALL STANDARD NUTS, WASHERS AND COUPLERS AS REQUIRED.
 - USE SIMP. 65TBL @ ALL 3" SILL LOCATIONS.



- NOTE:**
- SEE COVER SHEET FOR GENERAL AND STRUCTURAL INFORMATION.
 - CONTRACTOR IS TO VERIFY ALL DIMENSIONS IN FIELD.
 - CONTRACTOR / OWNER IS TO VERIFY SIZE LOCATION AND INSTALLATION SPACS. OF ALL WATER HEATERS AND MECHANICAL EQUIPMENT.
 - PROVIDE SOFFITS, PLUMBING WALLS, AND CHASING FOR MECHANICAL AND PLUMBING AS REQUIRED. - (B.O.)
 - ATTACH ALL STUD WALLS TO LOG WALLS W/ (4) - 1/2" DIA. LAG BOLTS W/ WASHERS IN 1/2" DIA. x 1" LONG SLOTS. IN 4x D.F. STUD. - (B.O.)
 - ALL DIMENSIONS ARE TO FACE OF FRAMING.
 - ALL STUD WALLS ARE 3-1/2" UNLESS OTHERWISE NOTED.
 - PROVIDE FRESH AIR VENTILLATION TO MEET 1991 VENTILLATION AND INDOOR AIR QUALITY CODE (IAQ) VIA MECHANICAL VENTILLATION SYSTEM. (SECTION 30B).

NOTE:
FIREPLACES WITH GAS APPLIANCES ARE REQUIRED TO HAVE THE FLUE DAMPER PERMANENTLY FIXED IN THE OPEN POSITION AND FIREPLACES WITH LPG APPLIANCES ARE TO HAVE NO "FIT" OR "SLUMP" CONFIGURATIONS. (U.M.C. SEC. 9121 AND SEC. 304.5)

NOTE:
THE INSPECTOR WILL RECHECK FOR EXPANSIVE SOILS AND / OR GRADING REQUIREMENTS AT THE FIRST FOUNDATION INSPECTION.

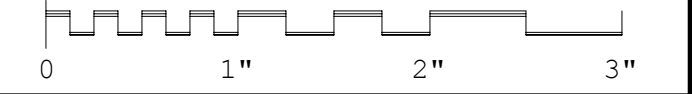
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NOTE:
FINISHED SQ. FOOTAGE CALCULATIONS FOR THIS BUILDING WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FROM THE FINISHED SQ. FOOTAGE AS BUILT. CALCULATIONS WERE MADE IN ACCORDANCE WITH ANSI Z765-1966.

NOTE:
A CERTIFICATE OF CONFORMANCE IS REQUIRED PRIOR TO FRAMING INSPECTION FOR ALL GLUE LAMINATED WOOD MEMBERS

- FOUNDATION:** (TO BE PROVIDED BY OTHERS)
- FOUNDATIONS ARE DESIGNED FOR A 3000 POUNDS PER SQUARE FOOT ALLOW. SOIL BEARING PRESSURE UNLESS NOTED OTHERWISE.
 - MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS TO BE 2500 psi. (5 SACKS OF CEMENT PER CUBIC YARD, 4" MAXIMUM SLUMP, 3/4" MAXIMUM AGGREGATE SIZE.)
 - ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150.
 - REINF. STEEL TO CONFORM TO A.S.T.M. A615-40 FOR #4 & SMALLER AND A615-60 FOR #5 & LARGER U.O.N.
 - HORIZONTAL OR VERTICAL REINFORCEMENT NOTED "CONT" SHALL HAVE A MINIMUM SPICE EQUAL TO 30 BAR DIAMETERS IN CONCRETE.
 - STAGGER ALL ADJACENT REINFORCEMENT SPLICES 48" MINIMUM.
 - #5 OR LARGER REINFORCEMENT STEEL SHALL NOT BE REBENT.
 - USE 4" CONC. SLAB WITH 6 x 6 - #10 W.W.M. OVER 2" OF CLEAN DAMP SAND OVER 6 MIL VAPOR BARRIER OVER 4" CRUSHED ROCK OVER COMPACTED SUBGRADE AT LIVING SPACES. USE 4" CONCRETE SLAB WITH 6 x 6 - #10 W.W.M. OVER 4" CRUSHED ROCK OVER COMPACTED SUBGRADE AT OTHER SLAB AREAS. INSTALL SLAB REINFORCEMENT AT CENTER LINE OF CROSS SECTIONAL AREA OF SLAB - TYPICAL.
 - FOUNDATION SILL PLATES SHALL BE BOLTED TO THE FOUNDATION WITH 1/2" DIA. x 10" ANCH. BOLTS AT 8' o.c. UNLESS OTHERWISE NOTED. BOLTS SHALL BE EMBEDDED 7" INTO REINFORCED CONCRETE. THERE SHALL BE A MINIMUM OF TWO BOLTS PER PIECE WITH ONE BOLT LOCATED WITHIN 12" OF EACH END OF EACH PIECE. USE 2X2X3/16 FLAT CUT WASHERS.
 - ALL WOOD BEARING ON CONCRETE OR MASONRY, OR WITHIN 6" FROM THE GROUND SURFACE, SHALL BE PRESSURE TREATED.
 - SAWCUT ALL SLABS WITH 1" DEEP CRACK CONTROL JOINTS AT INTERVALS NOT TO EXCEED 30' o.c. EACH WAY. SAWCUTTING SHALL OCCUR 16 TO 20 HOURS AFTER POUR.
 - REMOVE ALL TREES AND PLANTS, INCLUDING ALL ROOTS, WITHIN 5' FROM FOUNDATION.
 - FINISH GRADE SHALL SLOPE AT 2% MINIMUM AWAY FROM ALL STRUCTURES FOR A MINIMUM OF 5'.
 - PROVIDE UNDER FLOOR VENTILLATION NOT LESS THAN 1/150 SQUARE FEET OF THE TOTAL UNDER FLOOR AREA PER U.B.C. SECTION 2306-7.
 - PROVIDE A MINIMUM OF A 18" x 24" FOUNDATION ACCESS TO ALL UNDER FLOOR AREAS PER U.B.C. SECTION 2306-3.
 - CONCRETE AGGREGATES SHALL CONFORM TO A.S.T.M. C-33.
 - PIPES MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES OR OTHER APPROVED METHOD, BUT MAY NOT BE EMBEDDED THEREIN.
 - BOTTOM OF ALL FOOTING TRENCHES SHALL BE CLEAN AND LEVEL.
 - WHERE 1/2" DIA. x 10" ANCHOR BOLTS HAVE NOT BEEN PROPERLY LOCATED, USE 1/2" DIAMETER "HILT" KWIK-BOLTS WITH 6" EMBEDMENT BELOW BOTTOM OF SLAB. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

No.	REVISIONS	DATE
1	PLAN CHECK REVISIONS	2/11/10
2	ADDED "BRANDGUARD VENTS"	7-1-10
3	FLOOR PLAN LAYOUT swm	3-8-07



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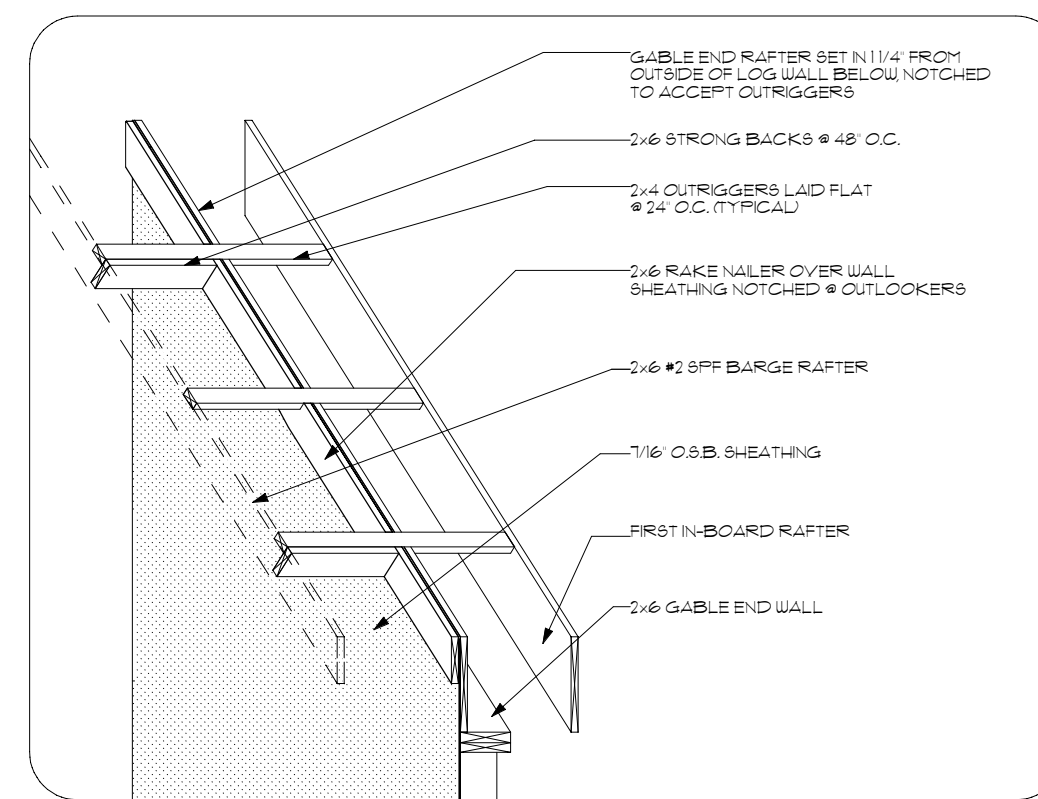
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Drafter	G. DIEHL, A. ZIEGLER (POST ENG.)
Checked	TAS, CJO
Scale	1/4" = 1'-0"
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Order No.	0619089-628
Cad File	SCHAFFER.PLN

SCHAFFER
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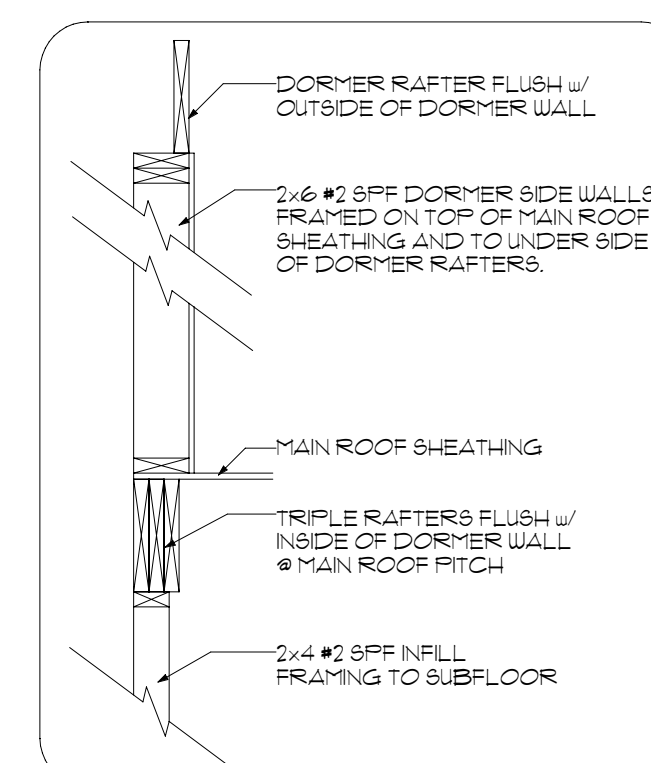
SHEET TITLE
FOUNDATION PLAN

Drawing No.
5
SHEET

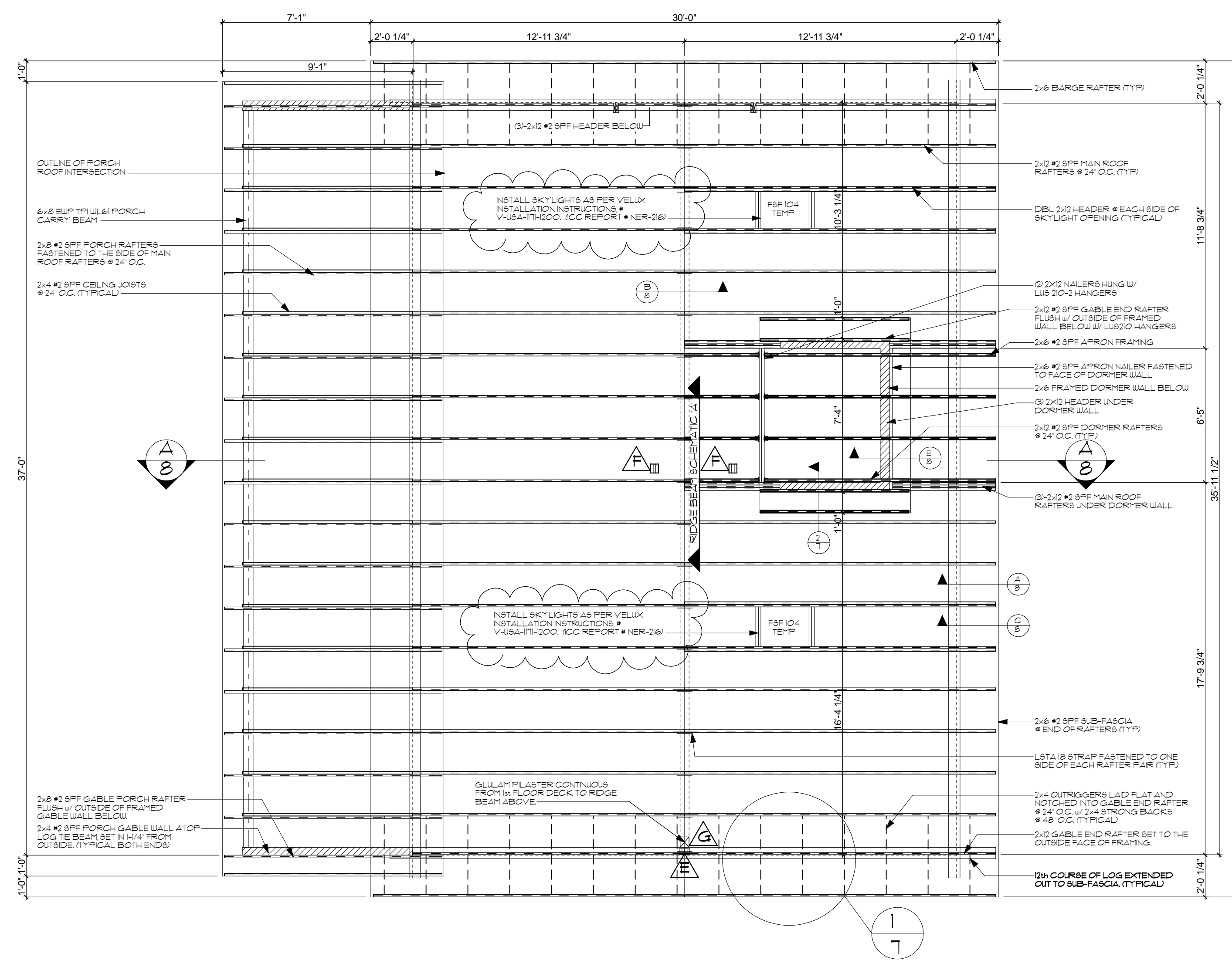
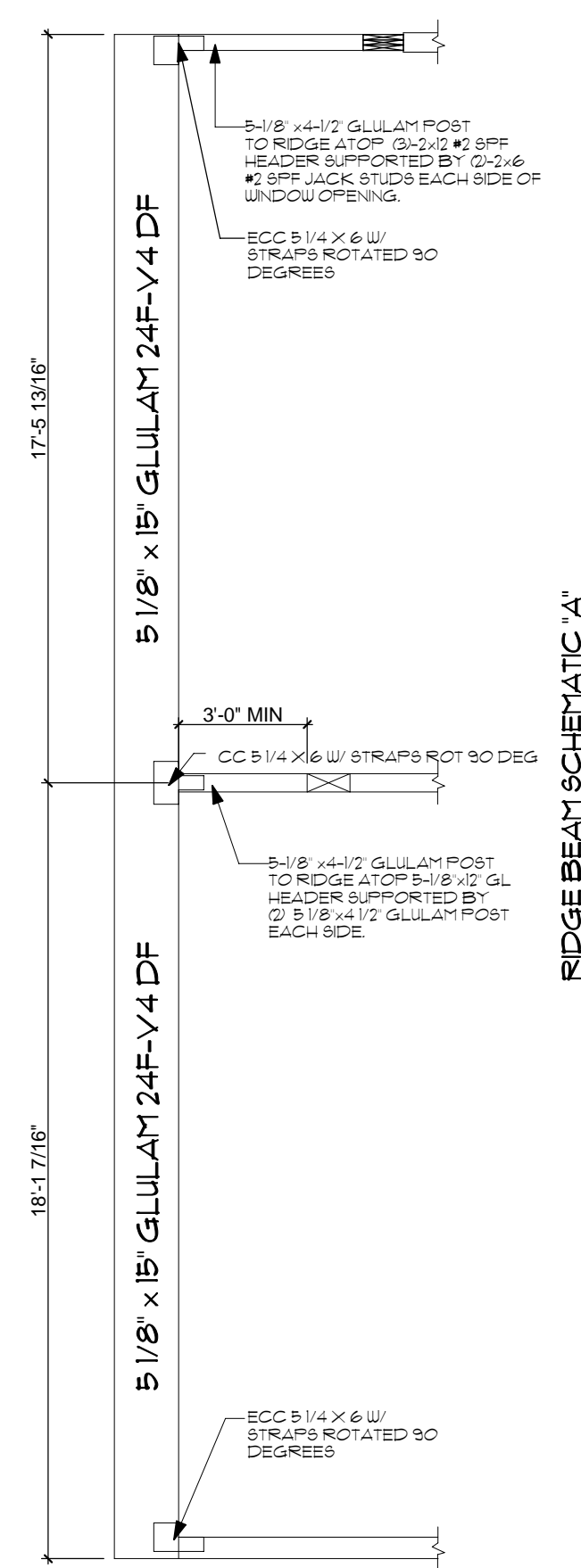
POST DESIGNATION KEY		
△	SIZE	SPECIES
A	3" x 4"	#2 SPF
B	3" x 6"	#2 SPF
C	4" x 6"	EASTERN WHITE PINE TRI WALL LOG 6'
D	6" x 6"	EASTERN WHITE PINE TRI WALL LOG 6'
E	3-1/8" x 6"	GLULAM 24F-V4 DF
F	5-1/8" x 4 1/2"	GLULAM 24F-V4 DF
G	5-1/8" x 6"	GLULAM 24F-V4 DF



1 LOG OUTRIGGER DETAIL TYP.
NOT-TO-SCALE



2 SHED DORMER WALL/RAFTER DETAIL
NOT-TO-SCALE



ROOF FRAMING PLAN

NOTES:
 ** RADIANT BARRIER IS REQUIRED
 ** ROOFING SHALL BE A MIN CLASS "A"
 FIRE RATING

ROOF FRAMING:

- ROOF SHEATHING:
 5/8" STANDARD, CDX, O.S.B., (OR PLYWD.) APA #32/16 MIN. NAILED TO FRAMING WITH 8d NAILS AT 6" o.c. EDGE NAILING (E.N.) AND 12" o.c. FIELD NAILING (F.N.) UNLESS OTHERWISE NOTED. STAGGER ALL END JOINTS AND RUN PLYWOOD PERPENDICULAR TO THE DIRECTION OF THE FRAMING.
- TRUSS DESIGN BY TRUSS MANUFACTURER (WHERE APPLICABLE). NOTE: T.J. MICRO-LAM, AND PARALLAM ARE TRADE MARK NAMES OF "TRUS-JOIST" CORP.
- PROVIDE EDGE NAILING TO ALL BLOCKING OR RIM JOISTS. CONNECT ALL BLOCKING OR RIM JOISTS, WHICH OCCUR IN SHEAR WALL LINES, TO TOP PLATES WITH "SIMP" ASS FRAMING CLIPS AT 48" o.c. UNLESS NOTED OTHERWISE.
- PROVIDE CONTINUOUS BLOCKING OVER ALL BEARING WALLS, SHEAR WALLS, BEAMS, AND HEADERS.
- NO STRUCTURAL PANEL SHALL BE LESS THAN 12" IN ITS LEAST DIMENSION.
- USE 5/8" THICK GYPSUM BOARD (SHEET ROCK) WHERE WOOD FRAMING IS SPACED AT 24" o.c. ATTACH TO FRAMING WITH GYP BOARD SCREWS AT 10" o.c. MAX. SCREWS SHALL BE LONG ENOUGH TO PENETRATE INTO THE WOOD FRAMING A MINIMUM OF 3/4". STAGGER ALL END JOINTS AND RUN THE GYP BOARD PERPENDICULAR TO THE DIRECTION OF THE FRAMING.
- PROVIDE FREE VENTILATING AREA NOT LESS THAN 1/50 OF THE AREA OF THE SPACE VENTILATED PER CBC.
- PROVIDE 22" x 30" MINIMUM ATTIC ACCESS PER BOCA SECTION 1211.2.
- TOP CHORD OF TRUSS TO BE 2x4 MINIMUM. SEE TRUSS CALCULATIONS FOR ADDITIONAL INFORMATION.

NOTE:
 PAPER FACED INSULATION IS NOT PERMITTED IN ATTICS OR OTHER VENTILATED SPACES

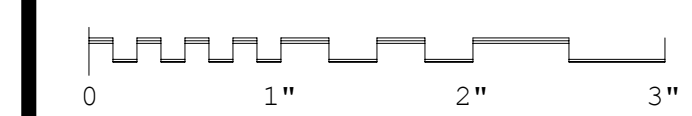
- NOTE:
- SEE COVER SHEET FOR GENERAL AND STRUCTURAL INFORMATION.
 - CONTRACTOR IS TO VERIFY ALL DIMENSIONS IN FIELD.
 - CONTRACTOR / OWNER IS TO VERIFY SIZE, LOCATION, AND INSTALLATION SPACS. OF ALL WATER HEATERS AND MECHANICAL EQUIPMENT.
 - PROVIDE SOFFITS, PLUMBING WALLS, AND CHASING FOR MECHANICAL AND PLUMBING AS REQUIRED. - (B.O.)
 - ATTACH ALL STUD WALLS TO LOG WALLS W/ (4) - 1/2" DIA. LAG BOLTS W/ WASHERS IN 1/2" DIA. x 1" LONG SLOTS- IN 4x D.F. STUD. - (B.O.)
 - ALL DIMENSIONS ARE TO FACE OF FRAMING.

NOTE:
 A CERTIFICATE OF CONFORMANCE IS REQUIRED PRIOR TO FRAMING INSPECTION FOR ALL GLUE LAMINATED WOOD MEMBERS

NOTE:
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NOTE:
 FINISHED SQ. FOOTAGE CALCULATIONS FOR THIS BUILDING WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FROM THE FINISHED SQ. FOOTAGE AS BUILT. CALCULATIONS WERE MADE IN ACCORDANCE WITH ANSI Z765-1966.

△	PLAN CHECK REVISIONS	DATE
1		2/11/10
2		
3		
4		
No.	REVISIONS	DATE



THE ORIGINAL
Lincoln Logs[®]

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 CHESTERTOWN, NEW YORK 12817
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Status	FINAL DRAWING
Drafter	G. DIEHL, A. ZIEGLER (POST ENG)
Checked	TAS, CJO
Scale	1/4" = 1'-0"
Date	10/11/06
Order No.	0619089-628
Cad File	SCHAFFER.PLN

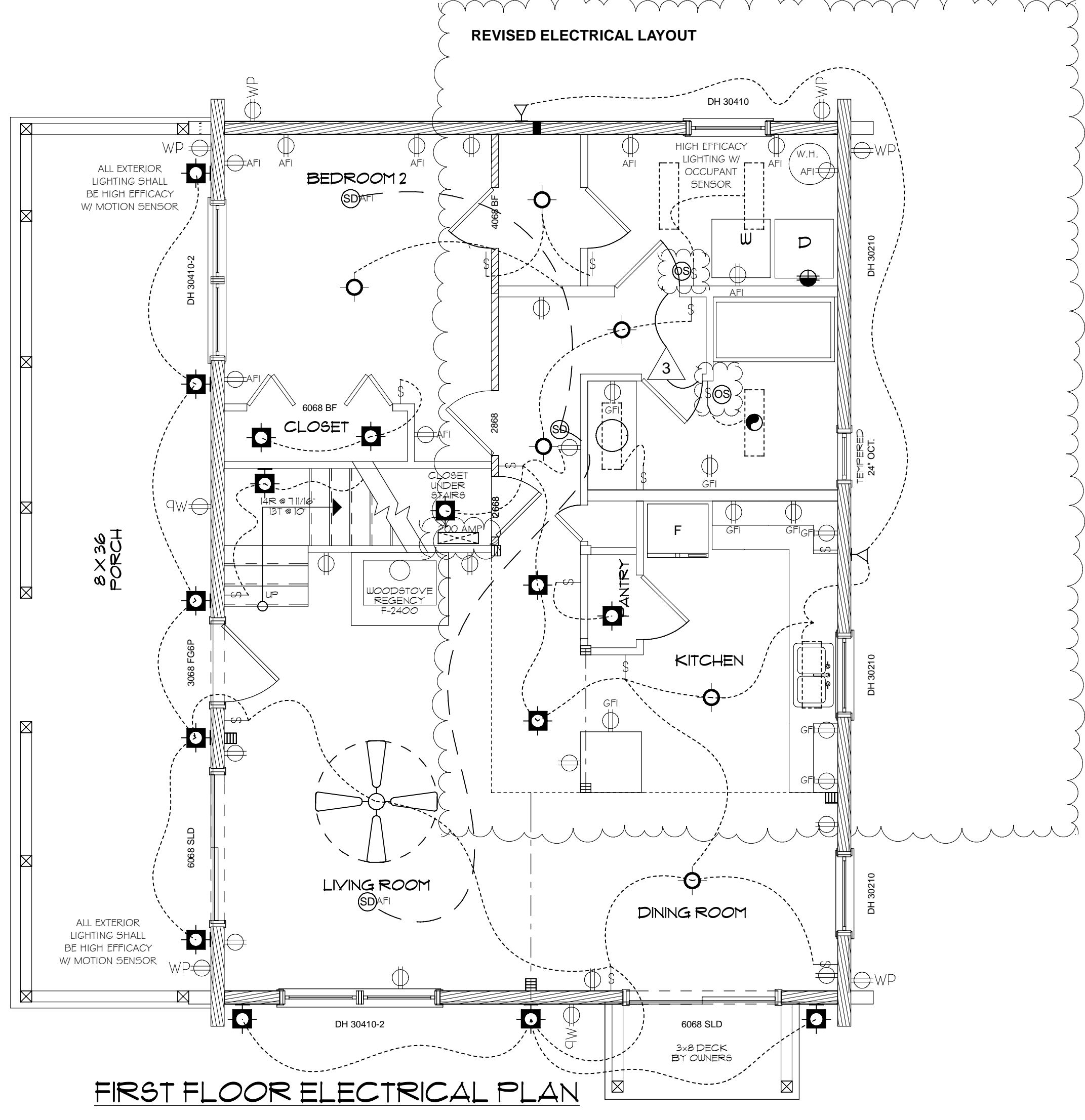
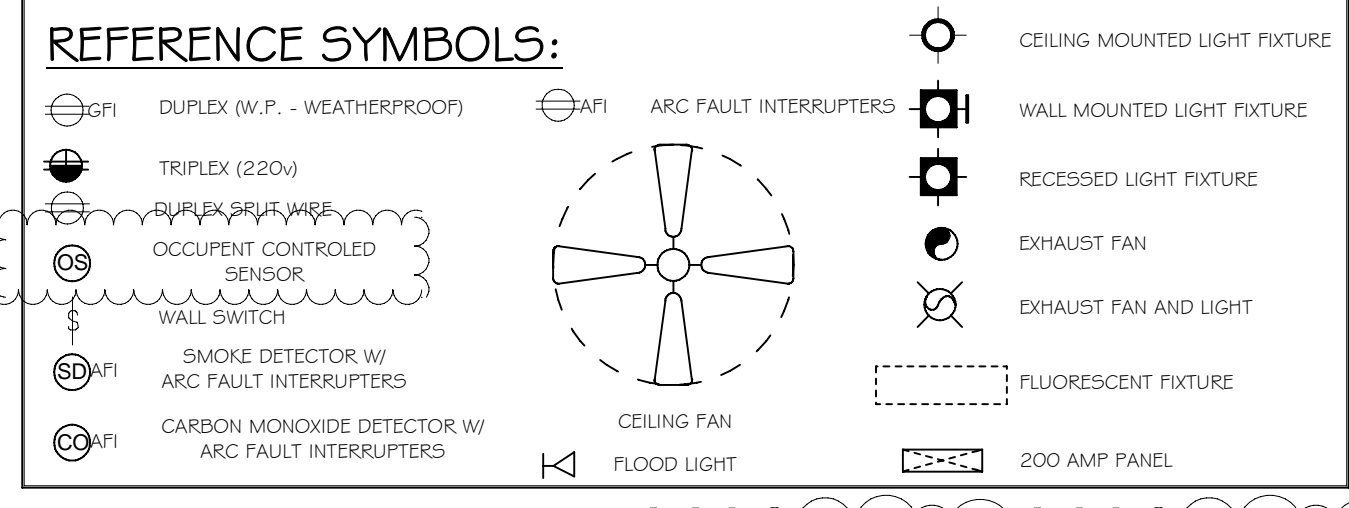
CUSTOMER
SCHAFFER
 34476 PUEBLO
 JULIAN, CA 92036
 SAN DIEGO COUNTY

SHEET TITLE
ROOF FRAMING

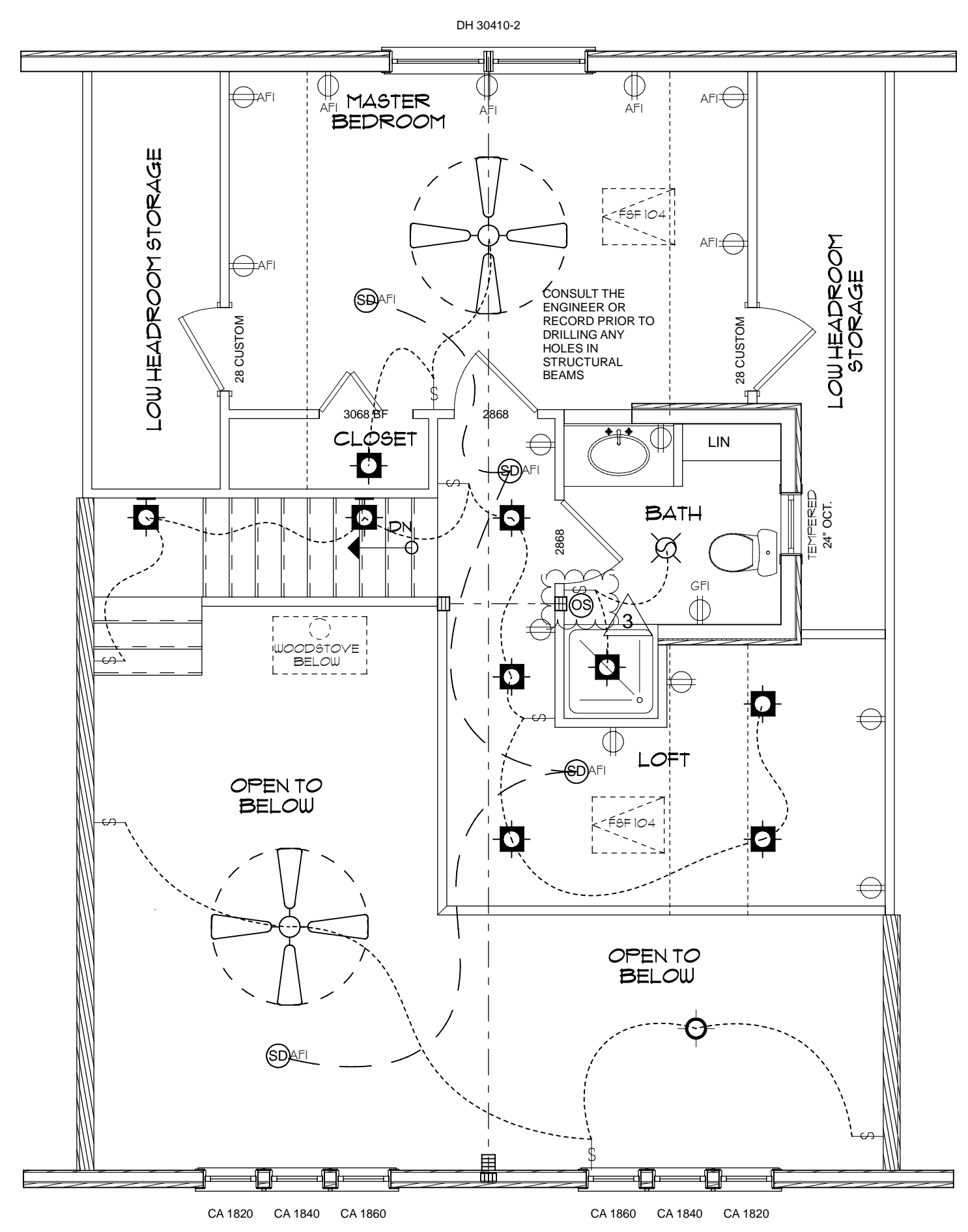
Drawing No.
7
 SHEET

- ALL WORK SHALL BE IN ACCORDANCE WITH ALL CODES, RULES AND REGULATIONS AND SHALL COMPLY WITH THE REQUIREMENTS OF THE SERVING POWER AND TELEPHONE COMPANIES.
- RECEPTACLES AT THE EXTERIOR OF THE HOME MUST BE LOCATED WITHIN 6'-6" OF GRADE, GFI PROTECTED AND WATERPROOF PER NEC 210-52
- APPLIANCES INSTALLED IN A GARAGE GENERATING A GLOW SPARK, OR FLAME TO BE LOCATED 18" ABOVE FLOOR AND SEISMICALLY BRACED. UMC 508
- WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION. STRAPPING SHALL BE AT POINTS WITHIN THE UPPER AND LOWER ONE THIRD OF ITS VERTICAL DIMENSIONS. AT THE LOWER POINT A MINIMUM DISTANCE OF 4" SHALL BE MAINTAINED ABOVE THE CONTROLS WITH THE STRAPPING. UNITS SHALL BE SECURED BY 1-1/2" x 1/2" G GAUGE STRAPS AND 5/16" x 3" LAG SCREWS ANCHORED INTO WALL FRAMING MEMBERS. CPC 510
- GARAGES CONTAINING GAS FIRED WATER HEATERS AND/OR FURNACES SHALL HAVE COMBUSTION AIR OPENINGS WITHIN 12" OF THE FLOOR AND THE HIGHEST POINT IN THE GARAGE.
- PROVIDE 1 1/2" OUTLET FOR WATER AND HEATING EQUIPMENT
- 4" RELIEF VALVES TO TERMINATE OUTSIDE OF BLDG. WITHIN 6" TO 24" OF THE GROUND. UPC 608
- RECEPTACLE OUTLETS SHALL BE INSTALLED A MINIMUM OF 18" FROM THE FLOOR OF GARAGES OR AREAS WHERE FLAMMABLE VAPORS MAY EXIST
- ALL ELECTRICAL OUTLETS LOCATED ON THE OPPOSITE SIDE OF RATED FIRE WALLS SHALL HAVE A MIN. 24" HORIZONTAL SEPERATION. NEC 4304E-2
- PROVIDE ACCESS AND CLEARANCE AT WATER HEATER

- PROVIDE GFI PROTECTION FOR RECEPTACLES IN THE BATHROOM, KITCHEN & GARAGE. GFI PROTECTION IS REQUIRED FOR ALL KITCHEN COUNTER RECEPTACLES. NEC 210-8(1), (246)
- AT THE DISHWASHER AND GARBAGE DISPOSAL, AN AIR-GAP IS TO BE INSTALLED TO CONFORM w/ UPC 608A.
- A NON-REMOVABLE BACK FLOW PREVENTION DEVICE IS TO BE PROVIDED AT ALL EXT. ON HOSE BIBS. UPC 603
- DROP-EARED FITTINGS SHALL BE INSTALLED ON ALL FIXTURES AND HOSE BIB OUTLETS AND SECURELY FASTENED TO ADEQUATE BACKING WITH SCREWS.
- DRAINAGE SYSTEM SHALL BE TESTED WITH A MINIMUM 8'-0" OF HEAD ABOVE FLOOR LEVEL. SECOND FLOOR TUBS SHALL BE TESTED TO A LEVEL ABOVE TUB OVERFLOW.
- "P" TRAPS INSTALLED BETWEEN FLOORS AND CONCEALED INSIDE WALLS SHALL HAVE A SOLID CONNECTION IN THE TRAP SEAL.
- ALL WATER SUPPLY PIPING FOR A BUILDING SUPPLY FOR RESIDENTIAL STRUCTURES SHALL BE A MINIMUM OF 1/2" WATER CLOSET TO BE MAX. 1.6 GAL. PER FLUSH PER CALIF. HEALTH AND SAFETY CODE.
- SHOWER AND TUB-SHOWER COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE. UPC 420.0
- THE DRYER EXHAUST TO BE SMOOTH METAL DUCT EXTENDING TO THE OUTSIDE AND EQUIPPED WITH A BACK DRAFT DAMPER. UMC 504, 908.
- PROVIDE SWITCHED OUTLETS 18" ABOVE FLOOR FOR GARBAGE DISPOSAL.
- CLOSET LIGHTING SHALL BE 18" MIN. FROM COMBUSTIBLES MEASURED BOTH VERTICALLY AND HORIZONTALLY.
- INSTALL SMOKE DETECTORS ON PERMANENTLY WIRED CIRCUIT (NOT GFI) AT LOCATION INDICATED ON THE ELECTRICAL PLAN. ALL SMOKE DETECTORS SHALL BE HARDWIRED AND EQUIPPED WITH A BATTERY BACK-UP, PER SECTION 310.9.1.CBC. ** ALL SMOKE DETECTORS SHALL BE INTERCONNECTED TO ACTIVATE ALL ALARMS IN DWELLING
- USE ONLY CEC CERTIFIED APPLIANCES, SHOWER HEAD, AND FAUCETS.
- ALL INSTALLATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT SHALL BE PROVIDED TO THE FIELD INSPECTOR AT THE TIME OF INSPECTION. UMC 303.1
- TERMINATION OF ALL ENVIRONMENTAL AIR DUCTS SHALL BE MINIMUM OF 3'-0" FROM PROPERTY LINES OR ANY OPENINGS IN THE BUILDING (i.e. DRYERS, BATHS AND UTILITY FANS, ETC. MUST BE 3'-0" AWAY FROM DOORS, WINDOWS, OPENING SKYLIGHTS OR ATTIC VENTS. UMC 504.6
- FACTORY-MADE FLEXIBLE AIR DUCTS ARE TO BE INSTALLED ACCORDING TO THEIR INSTALLATION INSTRUCTIONS AND STANDARDS SET BY THE CODE AND ARE TO USE UL 1810 TAPE. UMC 601.2
- CONDUCTOR WIRES WITH AN ISULATED NEUTRAL AND A FOUR-PRONG OUTLET ARE REQ'D. FOR DRYERS AND COOKING UNITS. NEC 250-60.
- SUPPLY TWO SMALL APPLIANCE BRANCH CIRCUITS FOR THE KITCHEN THAT ARE LIMITED TO SUPPLYING WALL AND COUNTER SPACE OUTLETS. THEY CANNOT SERVE THE DINING ROOM, OUTSIDE PLUGS, RANGE HOOD DISPOSALS, DISHWASHERS OR MICROWAVES-ONLY THE REQUIRED COUNTER-TOP WALL OUTLETS INCLUDING THE REFRIDGERATOR NEC 210-52(b)
- PROVIDE A DEDICATED 20 AMP CIRCUIT TO SERVE THE BATHROOM OUTLETS. ALSO PROVIDE A DEDICATED 20 AMP CIRCUIT TO SERVE THE LAUNDRY OUTLETS. THESE CIRCUITS SHALL SERVE NO OTHER OUTLETS. NEC 210-11(2),(3)
- PROVIDE 20-FOOT LONG CONCRETE ENCASED ELECTRODE IN PERIMETER FOOTING. NEC 250-51(6)
- PROVIDE EAVE MOUNTED W/WHI OUTLETS FOR OUTSIDE CHRISTMAS LIGHTS AT BUILDING FRONT AND REAR. SUCH OUTLETS TO BE SWITCH OPERATED.
- ALL INCANDESCENT FIXTURES RECESSED INTO INSULATED AREAS SHALL BE APPROVED FOR ZERO CLEARANCE INSULATION COVER.
- ALL BRANCH CIRCUITS SUPPLYING 125-v, SINGLE-PHASE, 15-20 AMP OUTLETS IN BEDROOMS SHALL BE PROTECTED BY ARC-FAULT-CIRCUIT INTERRUPTERS. NEC 210-12(b)
- FLUORESCENT FIXTURES MUST BE OF THE BALLASTED TYPE THAT ONLY ACCEPTS FLUORESCENT BULBS WITH A MINIMUM EFFICACY OF 40 LUMENS PER WATT.
- AT LEAST HALF THE INSTALLED WATTAGE OF LUMINAIRES IN KITCHEN SHALL BE HIGH EFFICACY. ALL OTHER FIXTURES MUST BE SWITCHED SEPARATELY. FORM WS-5R RESIDENTIAL LIGHTING WORKSHEET SHALL BE COMPLETE AND MADE A PERMANENT PART OF PLANS.
- HIGH EFFICACY LUMINAIRES OR PHOTO-CONTROL MOTION-SENSOR COMBINATION REQUIRED FOR EACH OUTDOOR LIGHTING FIXTURE.



FIRST FLOOR ELECTRICAL PLAN



SECOND FLOOR ELECTRICAL PLAN

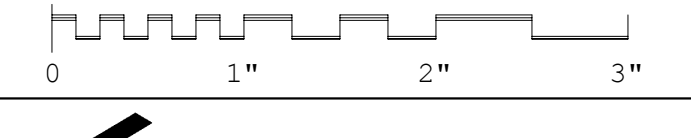
- NOTE:**
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 - CONTRACTOR IS TO VERIFY ALL DIMENSIONS IN FIELD.
 - CONTRACTOR / OWNER IS TO VERIFY SIZE LOCATION AND INSTALLATION SPACS. OF ALL WATER HEATERS AND MECHANICAL EQUIPMENT.
 - PROVIDE SOFFITS, PLUMBING WALLS, AND CHASING FOR MECHANICAL AND PLUMBING AS REQUIRED. - (B.O)
 - ATTACH ALL STUD WALLS TO LOG WALLS W/ (4) - 1/2" DIA. LAG BOLTS W/ WASHERS IN 1/2" DIA. x 1" LONG SLOTS- IN 4x4 STUD. - (B.O)
 - ALL DIMENSIONS ARE TO FACE OF FRAMING.
 - ALL STUD WALLS ARE 3-1/2" UNLESS OTHERWISE NOTED.
 - PROVIDE FRESH AIR VENTALLATION TO MEET 1991 VENTALLATION AND INDOOR AIR QUALITY CODE (IAQ) VIA MECHANICAL VENTALLATION SYSTEM. (SECTION 30B).

NOTE:
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NOTE:
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NOTE:
RESIDENCE WILL COMPLY WITH THE COUNTY OF SAN DIEGO LIGHTING ORDINANCE "HERS" VERIFICATION AND / OR DIAGNOSTIC TESTING IS REQUIRED

No.	REVISIONS	DATE
1	PLAN CHECK REVISIONS	2/11/10
2	occupant sensor light controls	7-1-10
3	PLAN CHECK REVISIONS (GWD)	4/8/08
4	revised floor plan	4-20-07



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Status	FINAL DRAWING
Drafter	G. DIEHL, A. ZIEGLER (POST ENG)
Checked	TAS, CJO
Scale	1/4" = 1'-0"
Date	10/11/06
Order No.	0619089-628
Cad File	SCHAFFER.PLN

SCHAFFER
34476 PUEBLO
JULIAN, CA 92036
SAN DIEGO COUNTY

SHEET TITLE
ELECTRICAL PLANS

CERTIFICATE OF COMPLIANCE: RESIDENTIAL COMPUTER METHOD		CF-1R	Page 1
Project Title.....	Schafer/Craig Log Home	Date..09/25/06 07:56:19	
Project Address.....	34476 Pueblo Dr.	*****	
Documentation Author...	Julian, CA	*v7.20*	
	Elizabeth Smithwick	*****	
	CompuCalc		Building Permit #
	2318 Lone Pine Dr		Plan Check / Date
	Auburn, CA 95602		Field Check/ Date
	530-268-8722		
Climate Zone.....	14		
Compliance Method.....	MICROPAS7 v7.20 for 2005 Standards by Enercomp, Inc.		
	MICROPAS7 v7.20 File-SCHAFFER Wth-CTZ14S05 Program-FORM CF-1R		
	User#-MP1630 User-CompuCalc Run-Log Home		

MICROPAS7 ENERGY USE SUMMARY			
Energy Use (kTWD/sf-yr)	Standard Design	Proposed Design	Compliance Margin
Space Heating.....	38.38	29.53	8.85
Space Cooling.....	45.33	48.36	-3.03
Water Heating.....	26.20	31.97	-5.77
Total	109.91	109.86	0.05

*** Building complies with Computer Performance ***
 *** HERS Verification Required for Compliance ***

GENERAL INFORMATION	
HERS Verification.....	Not Required
Conditioned Floor Area.....	1323.36 sf
Building Type.....	Single Family Detached
Construction Type.....	New
Fuel Type.....	Propane
Building Front Orientation.....	Front Facing 180 deg (S)
Number of Dwelling Units.....	1
Number of Building Stories.....	2
Weather Data Type.....	FullYear
Floor Construction Type.....	Raised Floor
Number of Building Zones.....	1
Conditioned Volume.....	15136 cf
Slab-On-Grade Area.....	1323.36 sf
Glazing Percentage.....	21.2 % of floor area
Average Glazing U-factor.....	0.37 Btu/hr-sf-F
Average Glazing SHGC.....	0.33
Average Ceiling Height.....	11.4 ft

CERTIFICATE OF COMPLIANCE: RESIDENTIAL COMPUTER METHOD		CF-1R	Page 2
Project Title.....	Schafer/Craig Log Home	Date..09/25/06 07:56:19	
	MICROPAS7 v7.20 File-SCHAFFER Wth-CTZ14S05 Program-FORM CF-1R		
	User#-MP1630 User-CompuCalc Run-Log Home		

BUILDING ZONE INFORMATION											
Zone Type	Floor Area (sf)	# of Units	# of Cond- le	Thermo- stioned	Vent Height (ft)	Vent Area (sf)	Verified Leakage or Housewrap	Area (sf)	Height (ft)	Left Extension	Right Extension
Residence	1323	15136	1.00	3.0	Yes	Setback	8.0	Standard	No		

FENESTRATION SURFACES														
Orientation	Area (sf)	U-factor	SHGC	Act Azm	Tilt	Exterior Shade	Location/Comments	Area (sf)	U-factor	SHGC	Act Azm	Tilt	Exterior Shade	Location/Comments
1 Door Front (S)	40.2	0.360	0.340	180	90	Standard	F1/Vinyl/Wood Patio Door	40.2	0.360	0.340	180	90	Standard	F1/Vinyl/Wood Patio Door
2 Wind Front (S)	31.8	0.370	0.320	180	90	Standard	F2/Vinyl/Wood Operable	31.8	0.370	0.320	180	90	Standard	F2/Vinyl/Wood Operable
3 Wind Back (N)	9.7	0.370	0.320	0	90	Standard	B1/Vinyl/Wood Operable	9.7	0.370	0.320	0	90	Standard	B1/Vinyl/Wood Operable
4 Wind Back (N)	9.7	0.370	0.320	0	90	Standard	B3/Vinyl/Wood Operable	9.7	0.370	0.320	0	90	Standard	B3/Vinyl/Wood Operable
5 Wind Back (N)	4.0	0.400	0.350	0	90	Standard	B3/Vinyl/Wood Fixed	4.0	0.400	0.350	0	90	Standard	B3/Vinyl/Wood Fixed
6 Wind Back (N)	9.7	0.370	0.320	0	90	Standard	B4/Vinyl/Wood Operable	9.7	0.370	0.320	0	90	Standard	B4/Vinyl/Wood Operable
7 Wind Right (E)	31.8	0.370	0.320	90	90	Standard	R1/Vinyl/Wood Operable	31.8	0.370	0.320	90	90	Standard	R1/Vinyl/Wood Operable
8 Door Right (E)	40.2	0.360	0.340	90	90	Standard	R2/Vinyl/Wood Patio Door	40.2	0.360	0.340	90	90	Standard	R2/Vinyl/Wood Patio Door
9 Wind Left (W)	16.0	0.370	0.320	270	90	Standard	L1/Vinyl/Wood Operable	16.0	0.370	0.320	270	90	Standard	L1/Vinyl/Wood Operable
10 Wind Back (N)	4.0	0.400	0.350	0	90	Standard	BUPR1/Vinyl/Wood Fixed	4.0	0.400	0.350	0	90	Standard	BUPR1/Vinyl/Wood Fixed
11 Wind Right (E)	3.3	0.370	0.320	90	90	Standard	RUPR1/Vinyl/Wood Operabl	3.3	0.370	0.320	90	90	Standard	RUPR1/Vinyl/Wood Operabl
12 Wind Right (E)	6.6	0.370	0.320	90	90	Standard	RUPR2/Vinyl/Wood Operabl	6.6	0.370	0.320	90	90	Standard	RUPR2/Vinyl/Wood Operabl
13 Wind Right (E)	10.0	0.370	0.320	90	90	Standard	RUPR3/Vinyl/Wood Operabl	10.0	0.370	0.320	90	90	Standard	RUPR3/Vinyl/Wood Operabl
14 Wind Right (E)	10.0	0.370	0.320	90	90	Standard	RUPR4/Vinyl/Wood Operabl	10.0	0.370	0.320	90	90	Standard	RUPR4/Vinyl/Wood Operabl
15 Wind Right (E)	6.6	0.370	0.320	90	90	Standard	RUPR5/Vinyl/Wood Operabl	6.6	0.370	0.320	90	90	Standard	RUPR5/Vinyl/Wood Operabl
16 Wind Right (E)	3.3	0.370	0.320	90	90	Standard	RUPR6/Vinyl/Wood Operabl	3.3	0.370	0.320	90	90	Standard	RUPR6/Vinyl/Wood Operabl
17 Wind Left (W)	31.8	0.370	0.320	270	90	Standard	LUPR/Vinyl/Wood Operable	31.8	0.370	0.320	270	90	Standard	LUPR/Vinyl/Wood Operable
18 Skyl Back (N)	5.8	0.440	0.350	0	45	None	SKY1/Vinyl/Wood Skylight	5.8	0.440	0.350	0	45	None	SKY1/Vinyl/Wood Skylight
19 Skyl Back (N)	5.8	0.440	0.350	0	45	None	SKY2/Vinyl/Wood Skylight	5.8	0.440	0.350	0	45	None	SKY2/Vinyl/Wood Skylight

CERTIFICATE OF COMPLIANCE: RESIDENTIAL COMPUTER METHOD		CF-1R	Page 3
Project Title.....	Schafer/Craig Log Home	Date..09/25/06 07:56:19	
	MICROPAS7 v7.20 File-SCHAFFER Wth-CTZ14S05 Program-FORM CF-1R		
	User#-MP1630 User-CompuCalc Run-Log Home		

OVERHANGS									
Surface	Area (sf)	Width (ft)	Height (ft)	Depth (ft)	Left Extension	Right Extension	Area (sf)	Width (ft)	Height (ft)
1 Door	40.2	n/a	6.7	8	1	n/a	n/a	n/a	n/a
2 Window	31.8	n/a	5	8	1	n/a	n/a	n/a	n/a

THERMAL MASS									
Mass Type	Area (sf)	Thick (in)	Heat Cap	Conductivity	U/MC	Surface R-value	Location/Comments	Area (sf)	Thick (in)
1 ExteriorVert	773	6.0	11.0	0.07	3.20	R-0.0	Exterior Mass Wall	773	6.0

HVAC SIZING									
System Type	Number of Systems	Minimum Efficiency	Verified EER	Verified Refrig Load	Verified Adequate Airflow	Verified Fan Watt Draw	Verified Maximum Cooling Capacity	System Type	Total Heating Load (Btu/hr)
Wood NoCooling	1	0.780 AFUE	n/a	n/a	n/a	n/a	n/a	Wood NoCooling	29957
		13.00 SEER	No	Yes	No	No	No		15794

Sizing Location..... JULIAN WYNOLA
 Winter Outside Design..... 20 F
 Winter Inside Design..... 70 F
 Summer Outside Design..... 90 F
 Summer Inside Design..... 75 F
 Summer Range..... 39 F

CERTIFICATE OF COMPLIANCE: RESIDENTIAL COMPUTER METHOD		CF-1R	Page 4
Project Title.....	Schafer/Craig Log Home	Date..09/25/06 07:56:19	
	MICROPAS7 v7.20 File-SCHAFFER Wth-CTZ14S05 Program-FORM CF-1R		
	User#-MP1630 User-CompuCalc Run-Log Home		

DUCT SYSTEMS									
System Type	Duct Location	Duct R-value	Verified Leakage	Verified Surface Area	Verified Buried Ducts	System Type	Heater Type	Distribution Type	Number in System
Wood NoCooling	Attic	R-6	No	No	No	Wood NoCooling	Electric	Standard	1
		R-6	No	No	No				0.98
									30
									R- n/a

WATER HEATING SYSTEMS									
Tank Type	Heater Type	Distribution Type	Number in System	Energy Factor	Tank Size (gal)	External Insulation R-value			
1 Storage	Electric	Standard	1	0.98	30	R- n/a			

SPECIAL FEATURES AND MODELING ASSUMPTIONS									
*** Items in this section should be documented on the plans, *** *** installed to manufacturer and CBC specifications, and *** *** verified during plan check and field inspection. ***									
This building incorporates HERS verified duct Leakage.									
This building incorporates a wood space heating system.									
This building does not have a cooling system installed.									
This building incorporates a non-standard Water Heating System.									

CERTIFICATE OF COMPLIANCE: RESIDENTIAL COMPUTER METHOD		CF-1R	Page 5
Project Title.....	Schafer/Craig Log Home	Date..09/25/06 07:56:19	
	MICROPAS7 v7.20 File-SCHAFFER Wth-CTZ14S05 Program-FORM CF-1R		
	User#-MP1630 User-CompuCalc Run-Log Home		

REMARKS	
Attention Owner and Project Manager: Please gain knowledge of the required energy features in these reports which determine the required efficiencies for heating, cooling and water heating appliances; insulation levels for ceiling, walls and floors; u-factor and solar heat gain co-efficient values for windows; 3rd party verification requirements and more. Not adhering to these requirements can be costly and delay the final approval of your project. If further explanation is needed please call: (530) 268-8722.	
It is the responsibility of a licensed HVAC contractor to verify sizing and warrant heating and cooling system performance. Ducts are shown in default attic location; may be installed elsewhere.	

COMPLIANCE STATEMENT	
This certificate of compliance lists the building features and performance specifications needed to comply with Title-24, Parts 1 and 6 of the California Code of Regulations, and the administrative regulations to implement them. This certificate has been signed by the individual with overall design responsibility.	
DESIGNER or OWNER	DOCUMENTATION AUTHOR
Name... R. Craig/D Schafer Company, Owner Address. P. O. Box 1634 Hanalei, HI 96714 Phone... (808) 826-9514 License. n/a	Name... Elizabeth Smithwick Company, CompuCalc Address. 2318 Lone Pine Dr Auburn, CA 95602 Phone... 530-268-8722
Signed.. (date)	Signed.. 9/25/06 (date)
ENFORCEMENT AGENCY	
Name...	
Title...	
Agency...	
Phone...	
Signed.. (date)	

MANDATORY MEASURES CHECKLIST: RESIDENTIAL		MF-1R	Page 6
Project Title.....	Schafer/Craig Log Home	Date..09/25/06 07:56:19	
Project Address.....	34476 Pueblo Dr.	*****	
Documentation Author...	Julian, CA	*v7.20*	
	Elizabeth Smithwick	*****	
	CompuCalc		Building Permit #
	2318 Lone Pine Dr		Plan Check / Date
	Auburn, CA 95602		Field Check/ Date
	530-268-8722		
Climate Zone.....	14		
Compliance Method.....	MICROPAS7 v7.20 for 2005 Standards by Enercomp, Inc.		
	MICROPAS7 v7.20 File-SCHAFFER Wth-CTZ14S05 Program-FORM MF-1R		
	User#-MP1630 User-CompuCalc Run-Log Home		

Note: Lowrise residential buildings subject to the Standards must contain these measures regardless of the compliance approach used. More stringent compliance requirements from the Certificate of Compliance supersede the items marked with an asterisk (*). When this checklist is incorporated into the permit documents, the features noted shall be considered by all parties as minimum component performance specifications for the mandatory measures whether they are shown elsewhere in the documents or on this checklist only.

BUILDING ENVELOPE MEASURES	De-sign-ment	En-force-ment
*150(a): Minimum R-19 insulation in wood framed ceiling or equivalent U-factor in metal frame ceiling	XX	
150(b): Loose fill insulation manufacturer's labeled R-value	XX	
*150(c): Minimum R-13 wall insulation in wood framed walls or equivalent U-factor in metal frame walls (does not apply to exterior mass walls)	XX	
*150(d): Minimum R-13 raised floor insulation in framed floors or equivalent U-factor	XX	
150(e): Installation of Fireplaces, Decorative Gas Appliances and Gas Logs		
1. Masonry and factory-built fireplaces have:		
a. Closeable metal or glass door covering the entire opening of the firebox	XX	
b. Outside air intake with damper and control, flue damper and control	XX	
2. No continuous burning gas pilot lights allowed	XX	
150(f): Air retarding wrap installed to comply with Sec. 151 meets requirements specified in ACM Residential Manual	XX	
150(g): Vapor barriers mandatory in Climate Zones 14,16 only	XX	
150(h): Slab edge insulation - water absorption rate for the insulation material without facings no greater than 0.3%, water vapor permeance rate no greater than 2.0 perm/inch	XX	
118: Insulation specified or installed meets insulation qualify standards. Indicate type and include CF-6R form	XX	
116-17: Fenestration Products, Exterior Doors and Infiltration/Exfiltration Controls		
1. Doors and windows between conditioned and unconditioned spaces designed to limit air leakage	XX	
2. Fenestration products (except field-fabricated) have label with certified U-factor, certified Solar Heat Gain Coefficient (SHGC), and infiltration certification	XX	
3. Exterior doors and windows weatherstripped; all joints and penetrations caulked and sealed	XX	

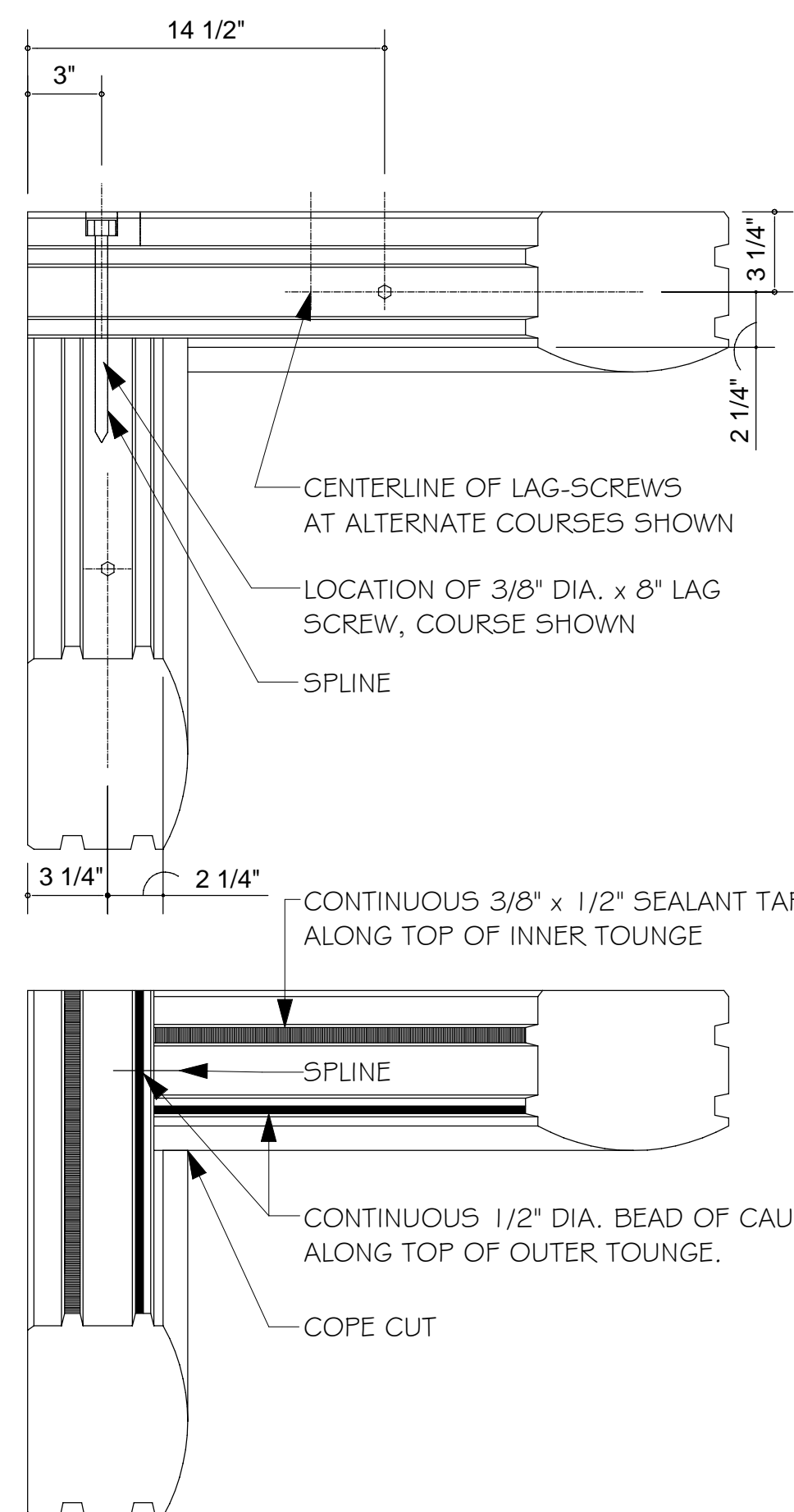
MANDATORY MEASURES CHECKLIST: RESIDENTIAL		MF-1R	Page 7
Project Title.....	Schafer/Craig Log Home	Date..09/25/06 07:56:19	
	MICROPAS7 v7.20 File-SCHAFFER Wth-CTZ14S05 Program-FORM MF-1R		
	User#-MP1630 User-CompuCalc Run-Log Home		

110-113: HVAC equipment, water heaters, showerheads and faucets certified by the Energy Commission	XX	
150(h): Heating and/or cooling loads calculated in accordance with ASHRAE, SMACNA or ACCA	XX	
150(i): Setback thermostat on all applicable heating and/or cooling systems	XX	
150(j): Water system pipe and tank insulation and cooling systems line insulation		
1. Storage gas water heaters rated with an Energy Factor less than 0.58 must be externally wrapped with insulation having an installed thermal resistance of R12 or greater	XX	
2. Back-up tanks for solar system, unfired storage tanks, or other indirect hot water tanks have R-12 external insulation or R-16 internal and indicated on the exterior of the tank showing the R-value	XX	
3. The following piping is insulated according to Table 150-A/B or Equation 150-A Insulation Thickness:		
1. First 5 feet of hot and cold water pipes closest to water heater tank, non-recirculating systems, and entire length of recirculating sections of hot water pipes shall be insulated to Table 150B	XX	
2. Cooling system piping (suction, chilled water, or brine lines), piping insulated between heating source and indirect hot water tank shall be insulated to Table 150-B and Equation 150-A	XX	
4. Steam hydronic heating systems or hot water systems >15 psi, meet requirements of Table 123-A	XX	
5. Insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance and wind	XX	
6. Insulation for chilled water piping and refrigerant suction piping includes a vapor retardant or is enclosed entirely in conditioned space	XX	
7. Solar water-heating systems/collectors are certified by the Solar Rating and Certification Corporation	XX	
*150(m): Ducts and Fans		
1. All ducts and plenums installed, sealed and insulated to meet the requirements of the CMC Sections 601, 602, 603, 604, 605 and Standard 6-5; supply-air and return-air ducts and plenums are insulated to a minimum installed level of R-4.2 or enclosed entirely in conditioned space. Openings shall be sealed with mastic, tape, or other duct-closure system that meets the applicable requirements of UL 181, UL 181A, or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than 1/4 inch, the combination of mastic and either mesh or tape shall be used	XX	
2. Building cavities, support platforms for air handlers, and plenums defined or constructed with materials other than sealed sheet metal, duct board or flexible duct shall not be used for conveying conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms shall not be compressed to cause reductions in the cross-sectional area of the ducts	XX	
3. Joints and seams of duct systems and their components	XX	

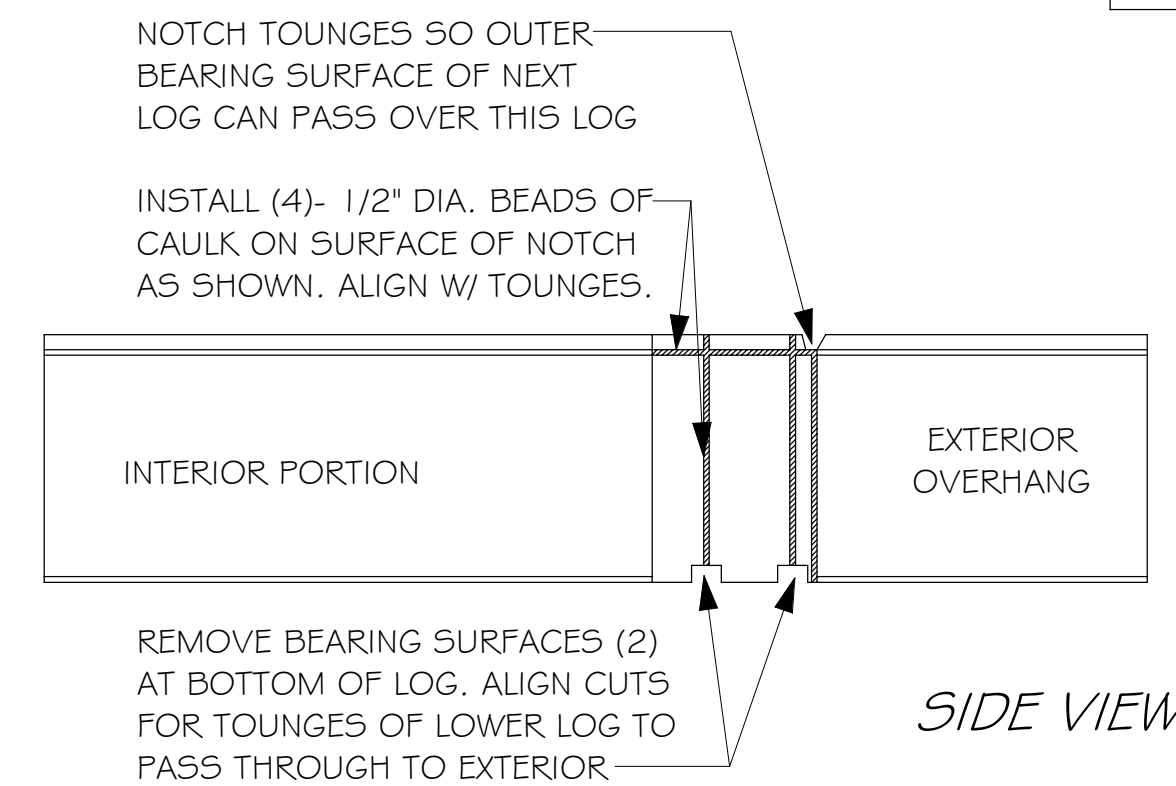
MANDATORY MEASURES CHECKLIST: RESIDENTIAL		MF-1R	Page 8
Project Title.....	Schafer/Craig Log Home	Date..09/25/06 07:56:19	
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shall not be sealed with cloth backed rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands	XX	
4. Exhaust fan systems have back draft or automatic dampers	XX	
5. Gravity ventilating systems serving conditioned space have either automatic or readily accessible, manually operated dampers	XX	
6. Protection of Insulation. Insulation shall be protected from damage due to sunlight, moisture, equipment maintenance and wind. Cellular foam insulation shall be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation that can cause degradation of the material	XX	
7. Flexible ducts cannot have porous inner cores	XX	
114: Pool and Spa Heating Systems and Equipment		
1. A thermal efficiency that complies with the Appliance Efficiency Regulations, on-off switch mounted outside of the heater, weatherproof operating instructions, no electric resistance heating and no pilot light	XX	
2. System is installed with:		
a. At least 36 inches of pipe between filter		

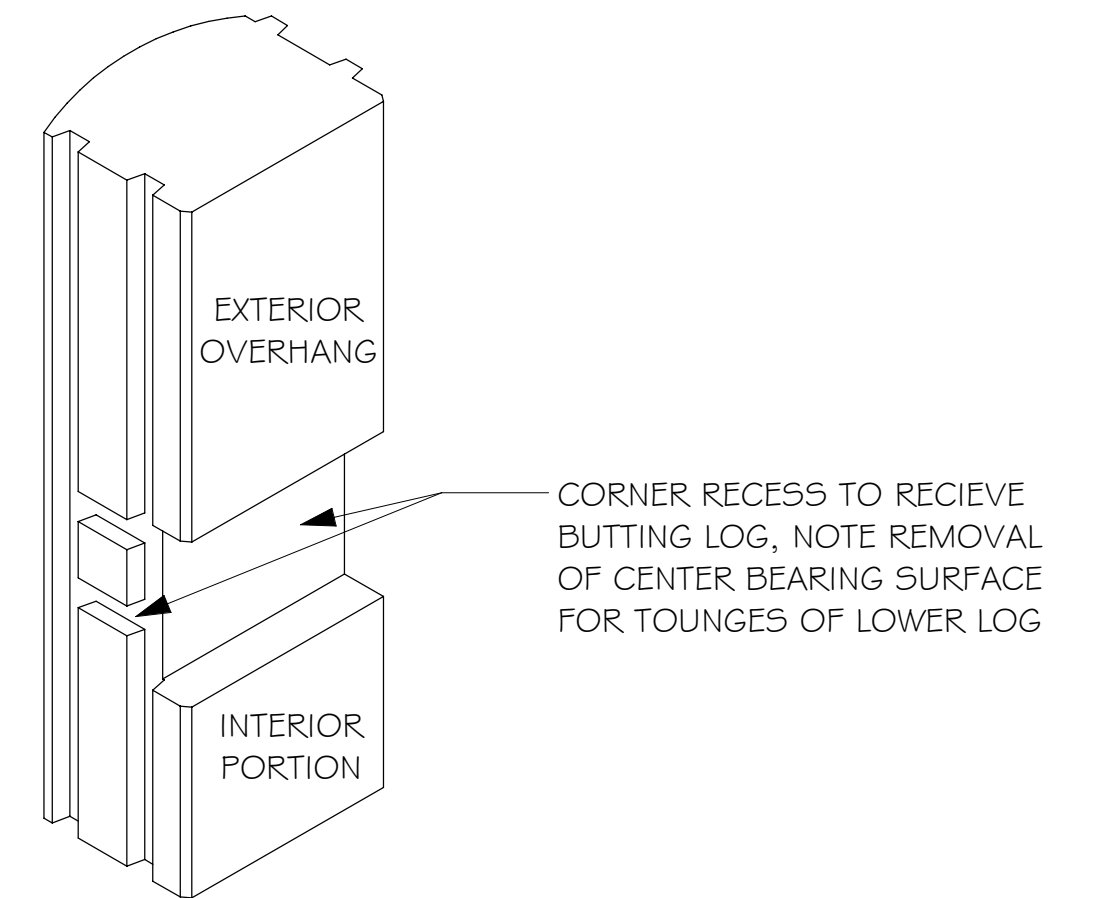
STANDARD 'D' LOG



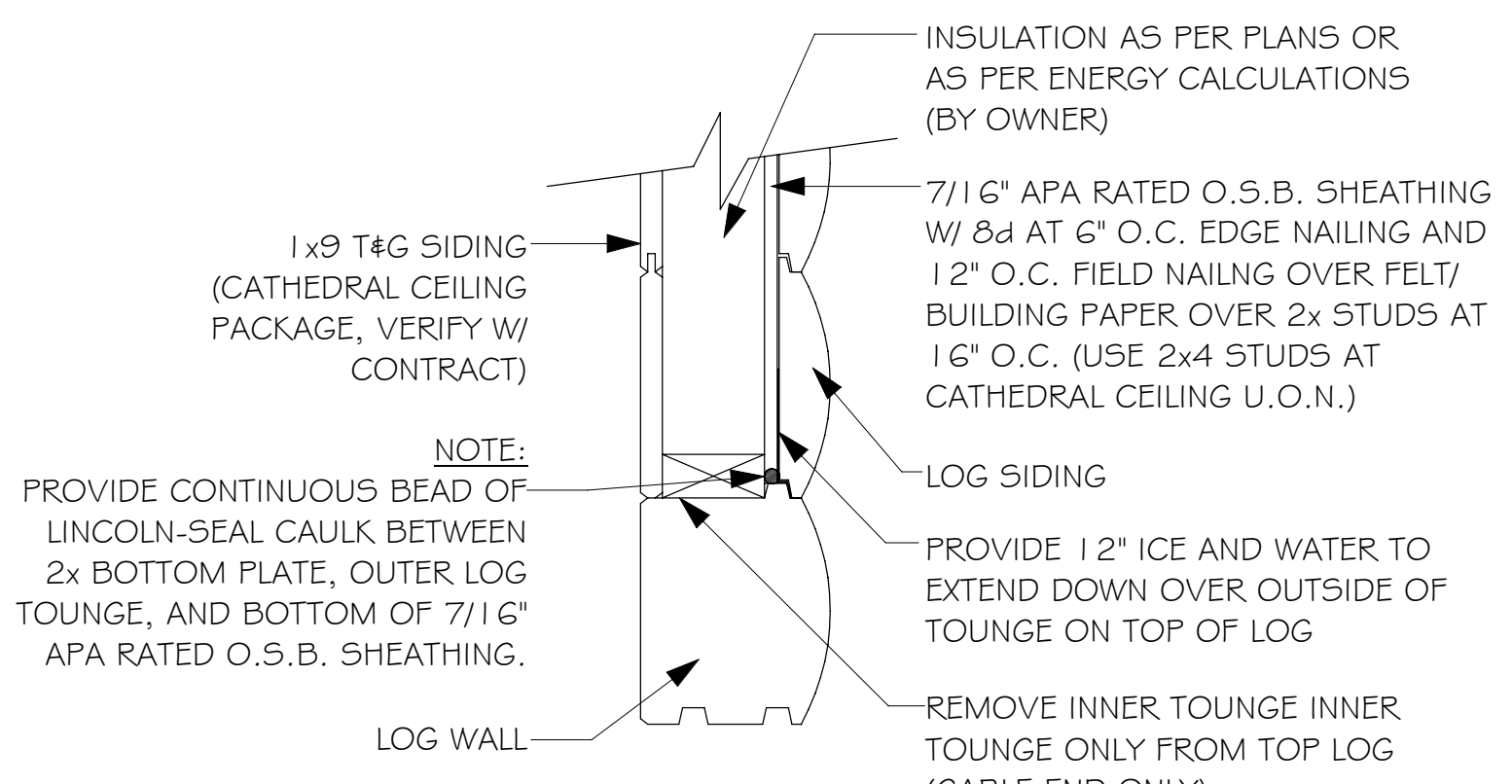
CORNER DETAIL - INSIDE



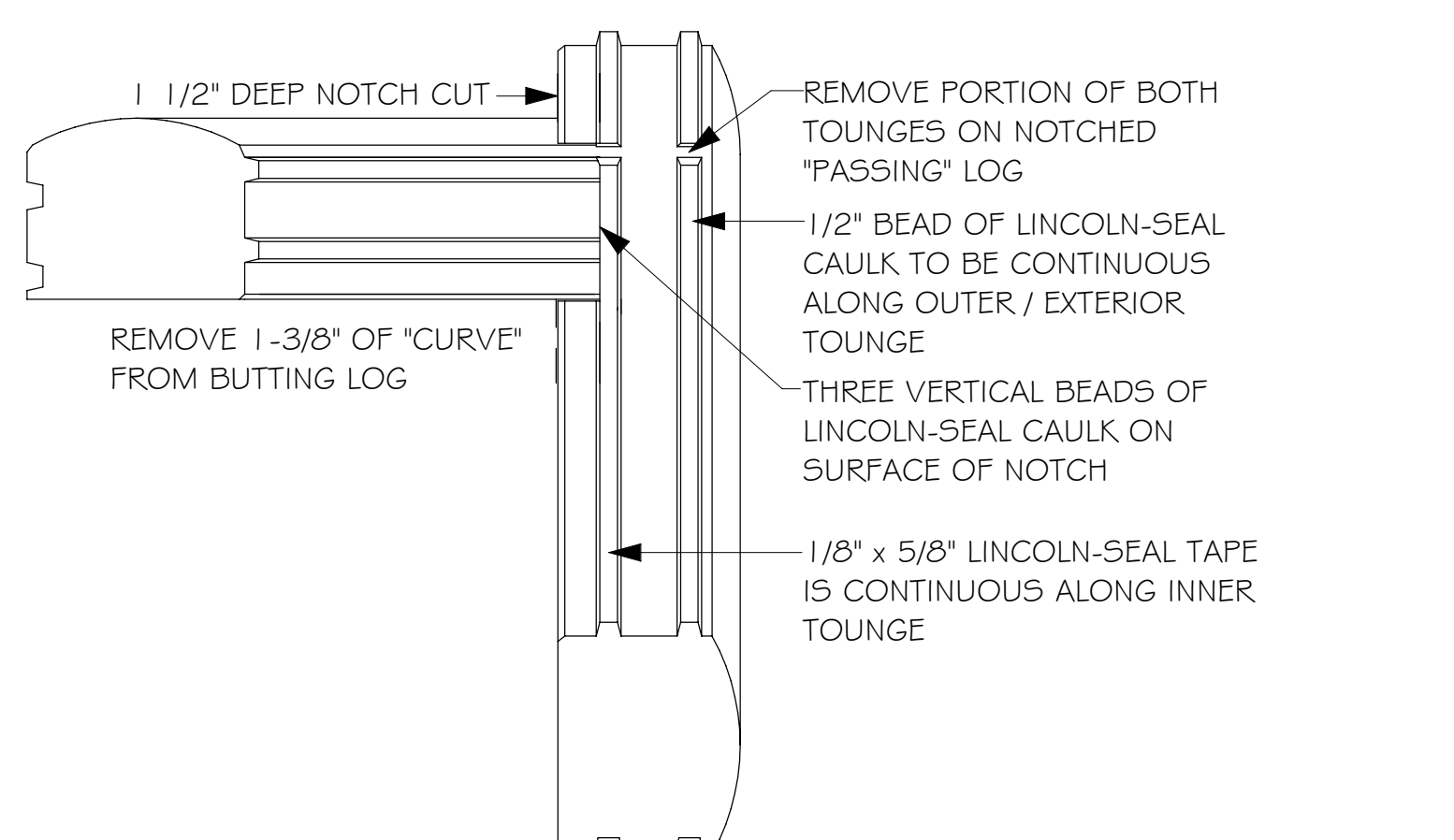
NOTCH AT PASSING LOG



BOTTOM OF PASSING LOG

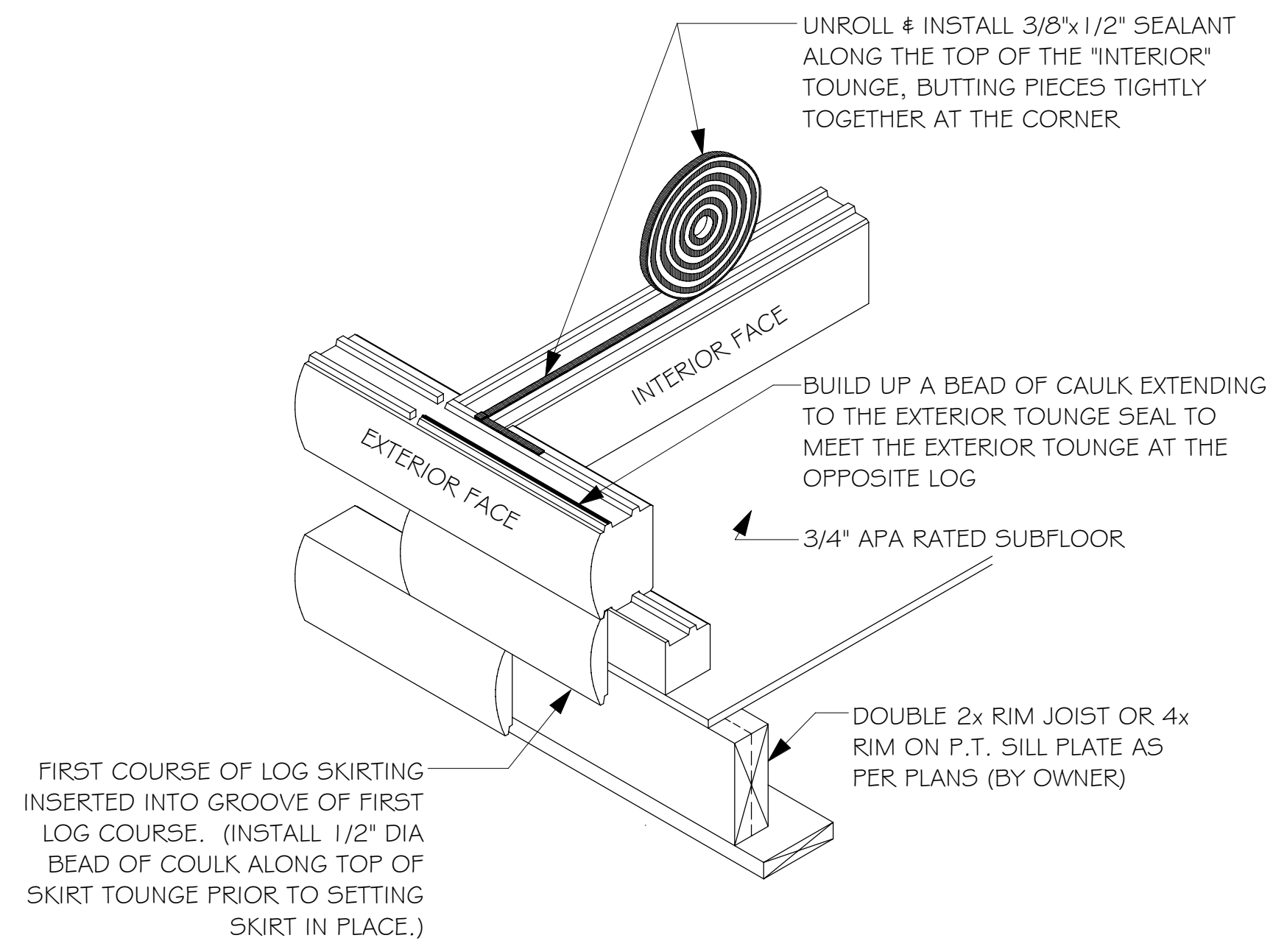


GABLE WALL DETAIL

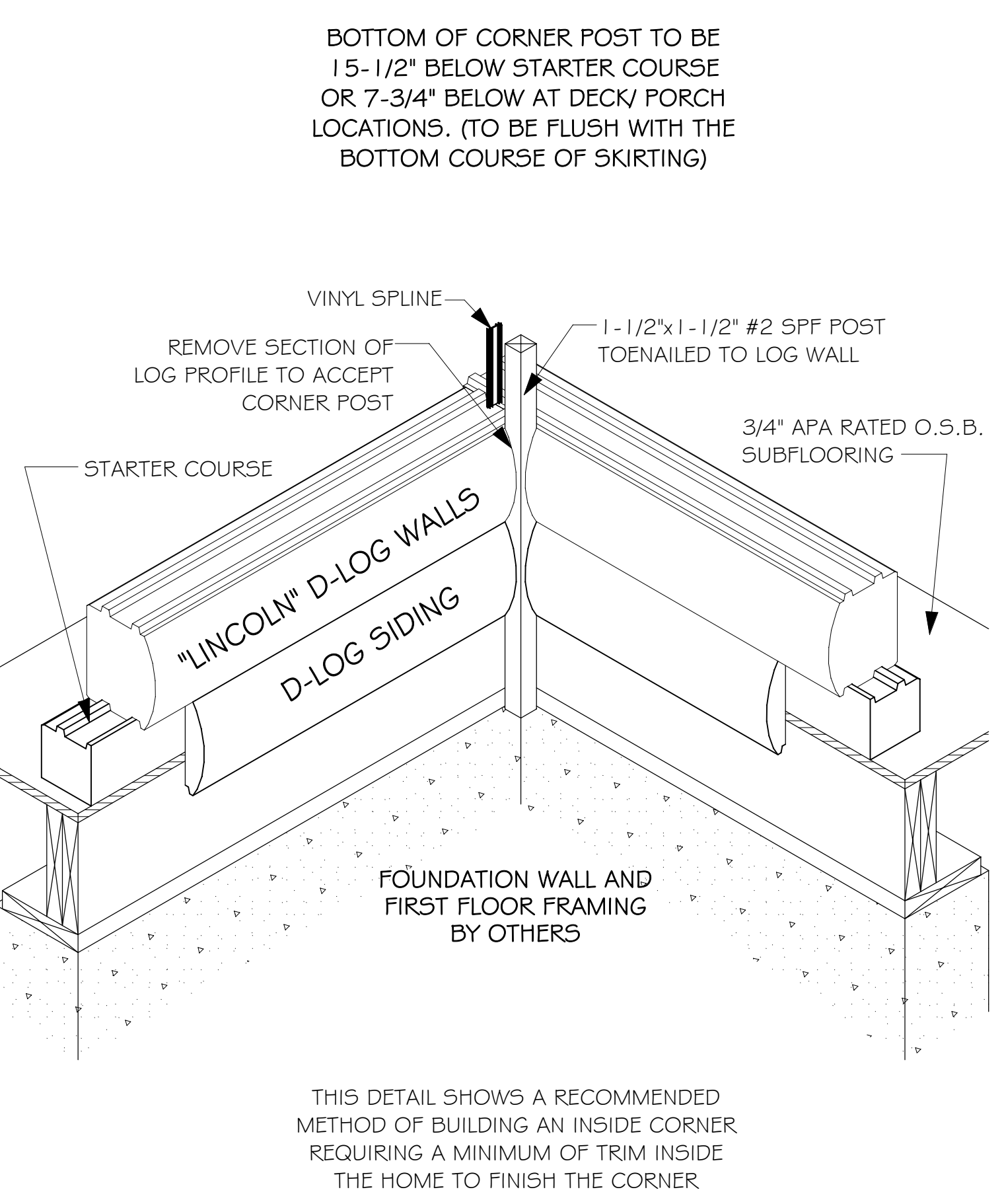


CORNER DETAIL - PLAN VIEW

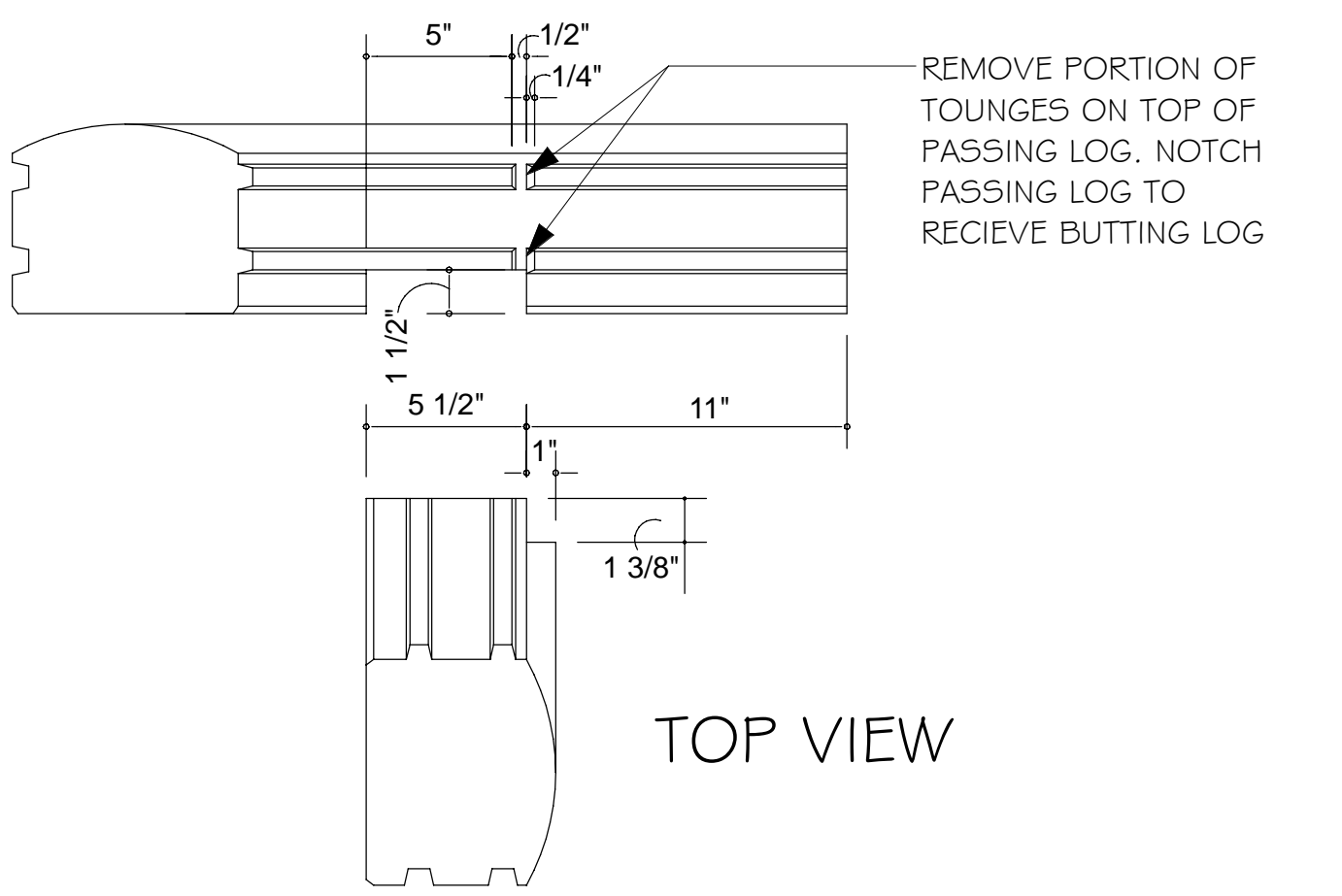
VIEW OF FIRST LOG COURSE



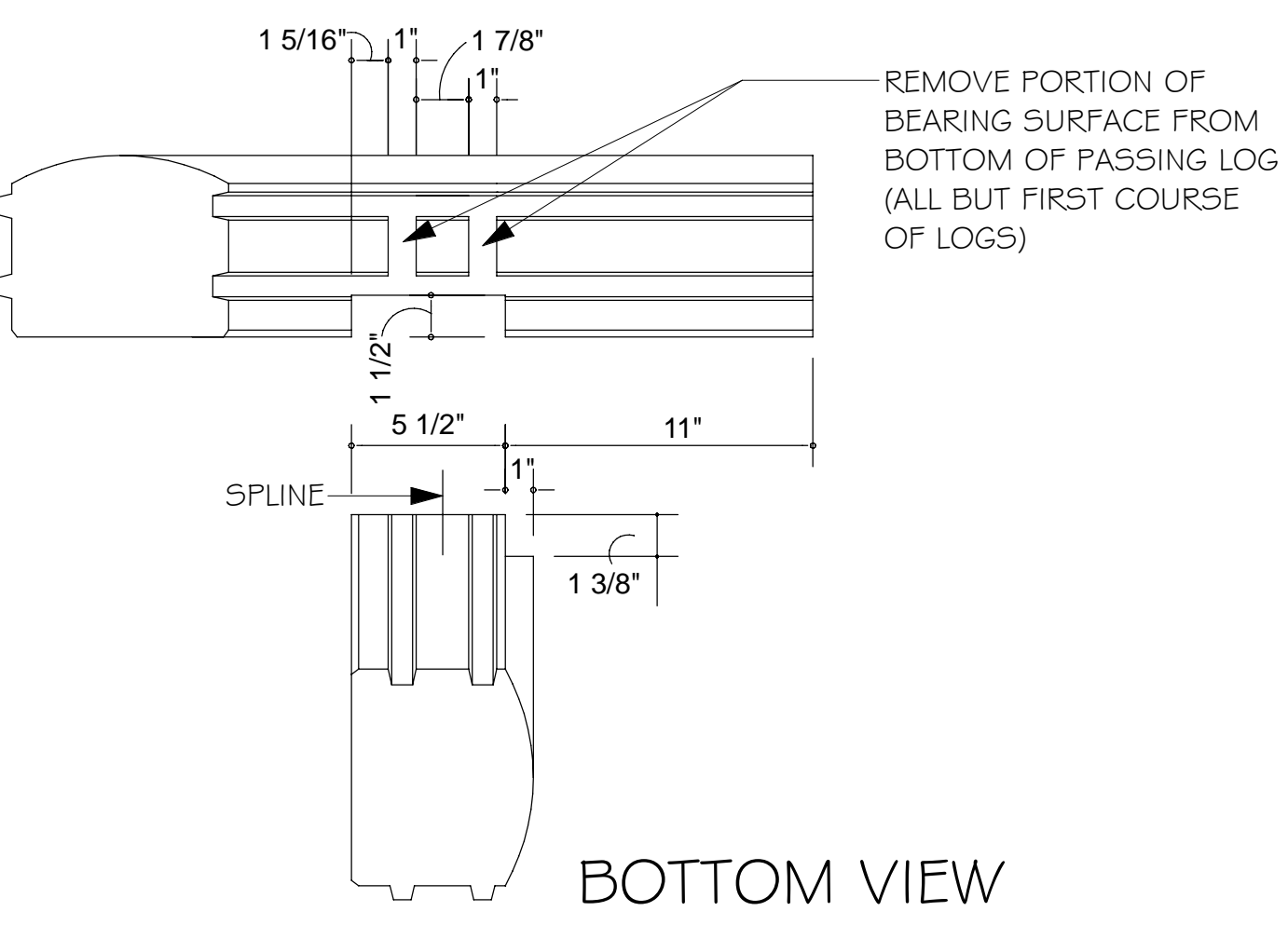
CORNER DETAIL - BUTT/PASS



2x2 CORNER POST DETAIL BUTT & PASS

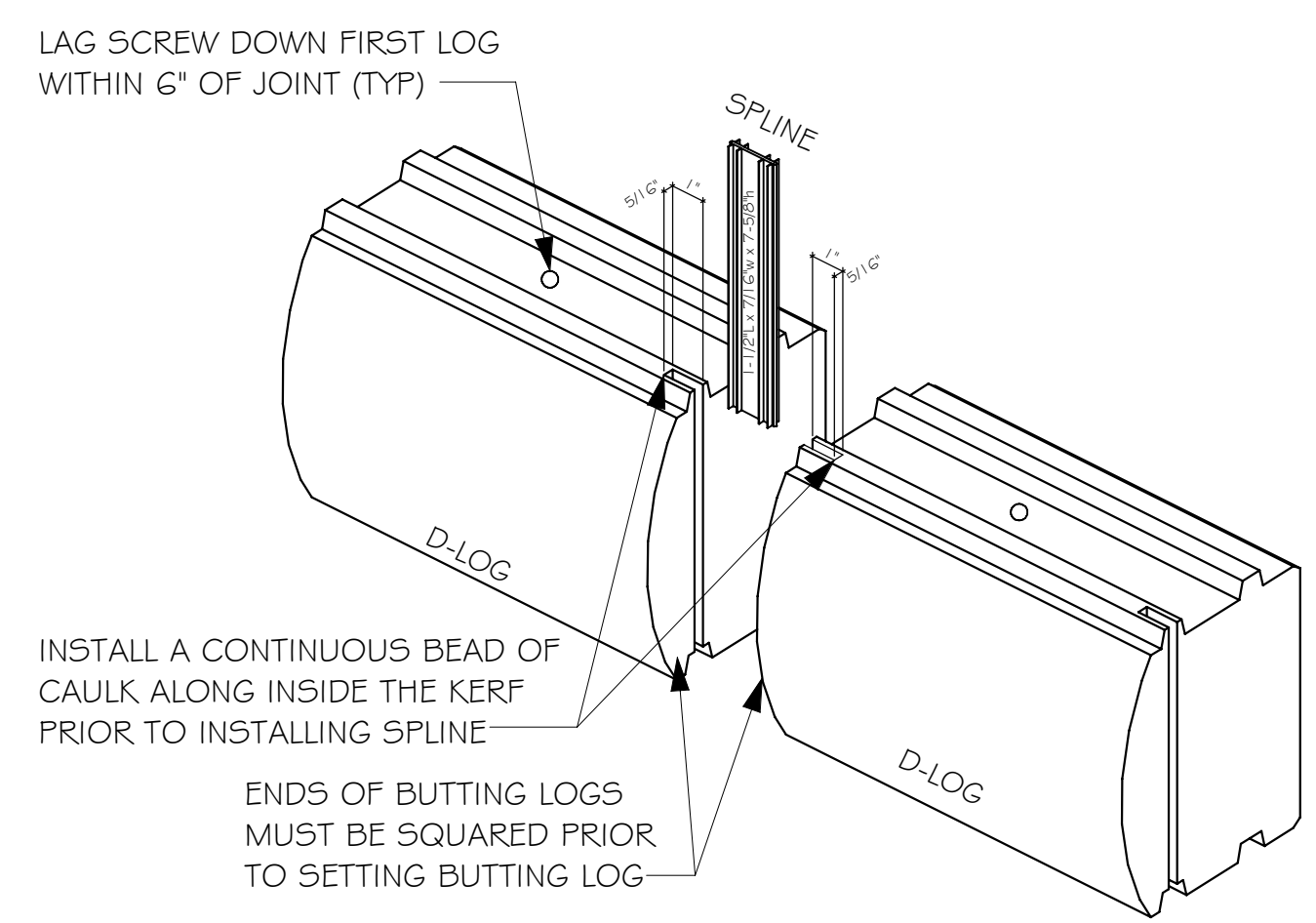
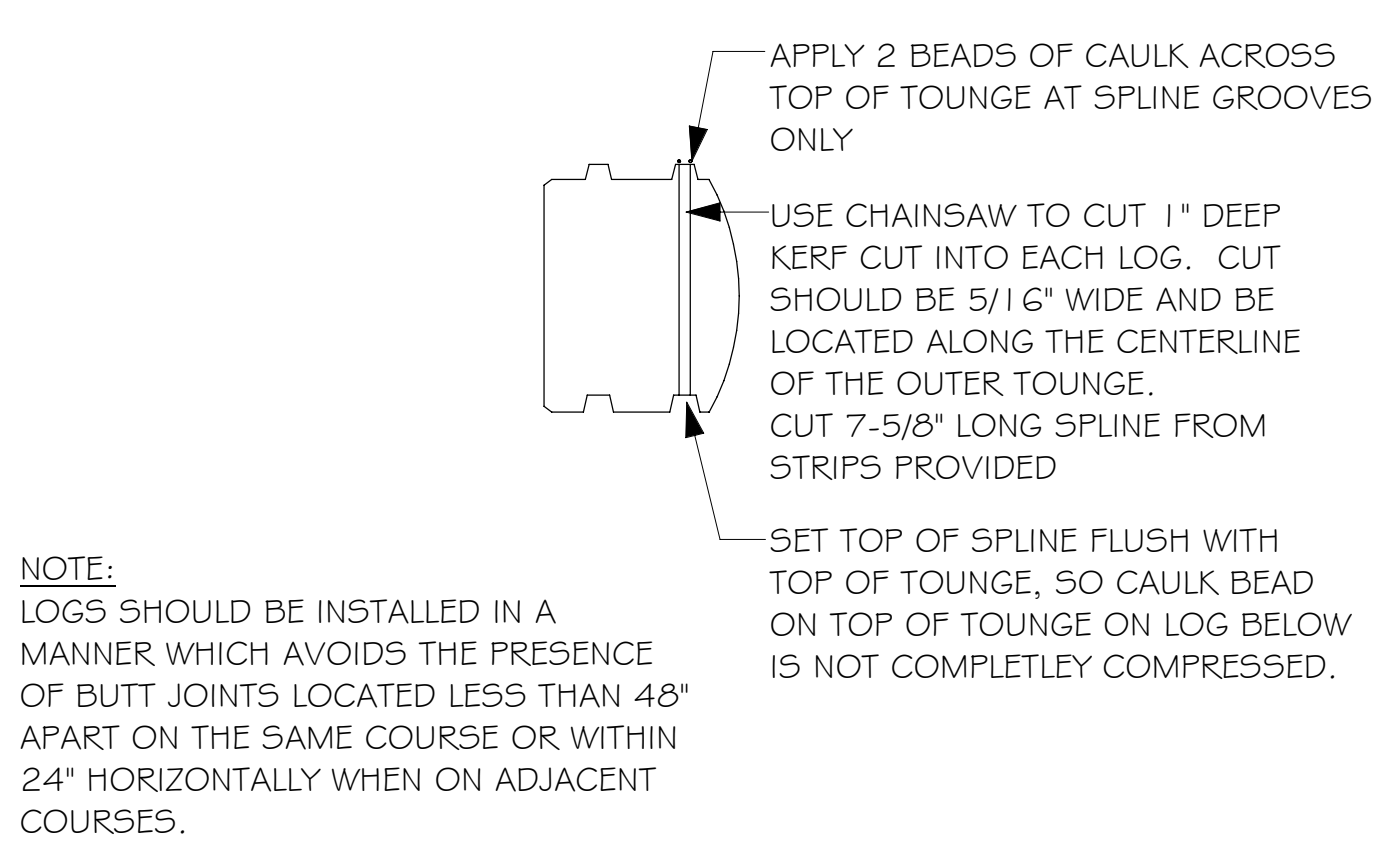


TOP VIEW



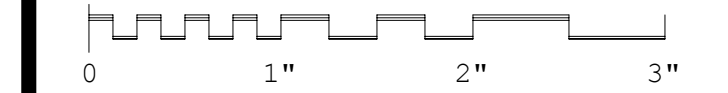
BOTTOM VIEW

OUTSIDE CORNER CUT DIM.



BUTT SPLICE DETAIL

PLAN CHECK REVISIONS	2/11/10
No.	REVISIONS DATE



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Detail Sheet